

ALASKA LNG PROJECT	DOCKET NO. CP17-____-000 RESOURCE REPORT NO. 1 APPENDIX D – SUMMARY OF PUBLIC, AGENCY, AND STAKEHOLDER ENGAGEMENT AND CORRESPONDENCE	Doc No: USAI-PE-SRREG-00- 000001-000 DATE: APRIL 14, 2017 REVISION: 0
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## APPENDIX D SUMMARY OF PUBLIC, AGENCY, AND STAKEHOLDER ENGAGEMENT AND CORRESPONDENCE

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
6/27/2013	Bureau of Land Management (BLM)	Letter	Letter to BLM (Nichelle Jacobson) – Request for 2002 Cultural Resources GIS Data	4
7/1/2013	Bureau of Land Management (BLM)	Letter	Letter to BLM (Robert Lloyd) – Description of Work Activities for Next Fiscal Year	1
7/1/2013	State of Alaska Pipeline Coordinator's Section (SPCS)	Letter	Letter to SPCS (Mike Thompson) – Description of Work Activities for Next Fiscal Year	1
10/14/2013	Alaska Native Tribes (list attached)	Letter	Letter to Alaska Native Tribes – Notification of Nikiski as Lead Site Location	1,10
12/9/2013	Bureau of Land Management (BLM)	Letter	Letter to BLM (Robert Lloyd) – Description of Work Activities for Fiscal Year 2014	1
2/25/2014	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Meteorological and Ambient Air Monitoring Program Site Approval Request, Nikiski	9
4/29/2014	State of Alaska Pipeline Coordinator's Section (SPCS)	Letter	Letter to SPCS (David de Gruyter) – Description of Work Activities for Next Fiscal Year	1
5/15/2014	U.S. Coast Guard (USCG)	Letter	Letter to USCG (Paul Mehler III) – Letter of Intent & Preliminary Waterway Suitability Assessment	1,11
5/28/2014	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Mike Holley) – Wetlands Determination Protocol	2
6/30/2014	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Quality Assurance Project Plan for the Alaska LNG Project Air Quality and Meteorological Monitoring Program – Nikiski	9
7/3/2014	Alaska Department of Fish and Game (ADF&G)	Email	Email from ADF&G (Jack Winters) – Concurrence on Fish Protocols for Summer Field Season	3
8/13/2014	Alaska Department of Fish and Game (ADF&G)	Letter	Letter to ADF&G (Randy Bates) – Review of Fish Studies Data Gathered by the Alaska Pipeline Project and the Alaska LNG Project	3
8/13/2014	Bureau of Land Management (BLM)	Letter	Letter to BLM (Robert Lloyd) – Review of Cultural Resources Reports Submitted by the Alaska Pipeline Project and the Alaska LNG Project	4

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
8/13/2014	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Judith Bittner) – Review of Cultural Resources Reports Submitted by the Alaska Pipeline Project and the Alaska LNG Project	4
8/13/2014	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Mike Holley) – Review of Wetland Studies Data Gathered by the Alaska Pipeline Project and the Alaska LNG Project	2
9/26/2014	Landowner Update Mailing	Letter	Letter to Landowners – Project & Federal Energy Regulatory Commission (FERC) Pre-Filing Process Overview	1
10/23/2014	Alaska Native Tribes (list attached)	Letter	Letter to Alaska Native Tribes – Informal Section 106 Consultation	4
10/27/2014	Bureau of Land Management (BLM)	Letter	Letter to BLM (Dr. Robert King) – Request for Informal Consultation under Section 106 of the National Historic Preservation Act	4
10/27/2014	National Marine Fisheries Service (NMFS)	Letter	Letter to NMFS (Greg Balogh) – Initiation of Informal Section 7 Consultation – Request for Information Regarding Federally Threatened or Endangered Species or Critical Habitat That May Occur Within Project Footprint	3
10/27/2014	National Marine Fisheries Service (NMFS)	Letter	Letter to NMFS (Doug Limpinsel) – Initiation of Informal Section 7 Consultation – Request for Information Regarding Federally Threatened or Endangered Species or Critical Habitat That May Occur Within Project Footprint	3
10/27/2014	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Judith Bittner) – Request for Informal Consultation under Section 106 of the National Historic Preservation Act	4
10/27/2014	U.S. Fish and Wildlife Service (USFWS)	Letter	Letter to USFWS (Sarah Conn) – Initiation of Informal Section 7 Consultation – Request for Information Regarding Federally Threatened or Endangered Species or Critical Habitat That May Occur Within Project Footprint	3
10/27/2014	U.S. Fish and Wildlife Service (USFWS)	Letter	Letter to USFWS (Socheata Lor) – Initiation of Informal Section 7 Consultation – Request for Information Regarding Federally Threatened or Endangered Species or Critical Habitat That May Occur Within Project Footprint	3



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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
10/30/2014	Alyeska Pipeline Service Company (APSC)	Letter	Letter from APSC (Peter Nagel) – Regarding Analysis of TAPS Operation Along Proposed Route	11
11/11/2014	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Judith Bittner) – Cultural Resources Evaluation, Alaska LNG Project – Proposed 2014 Ambient Air Quality Station, Alaska LNG Project, Nikiski, Alaska	4
11/12/2014	State of Alaska Office of History and Archaeology (OHA)	Email	Email from OHA (Mckenzie S. Johnson) Review – Cultural Resources Evaluation, Alaska LNG Project – Proposed 2014 Ambient Air Quality Station, Alaska LNG Project, Nikiski, Alaska	4
1/30/2015	U.S. Army Corps of Engineers (USACE)	Email	Email from USACE (Janet Post) – Response to Review of Wetland Studies Data Gathered by the Alaska Pipeline Project and the Alaska LNG Project	2
2/3/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Judith Bittner) – 2014 Phase I Cultural Resources Inventory Report	4
2/09/2015	Alaska Department of Environmental Conservation (ADEC)	Email	Email from ADEC (Barbara Trost) – Concerning Quality Assurance Project Plan (QAPP) review	9
2/12/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter from OHA (Judith Bittner) – Concurrence on 2014 Phase I Cultural Resources Inventory Report	4
4/14/2015	Alaska Native Claims Settlement Act (ANCSA) Members (list attached)	Letter	Letter to ANCSA members – Letter Regarding Logistics Study, Labor Study and Upcoming Business Information Sessions	5
4/22/2015	U.S. Fish and Wildlife Service (USFWS)	Email	Email from USFWS (Jordan Muir) – Concurrence with raptor survey protocols	3
4/28/2015	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Letter	Letter to PHMSA (John Gale) – Request for Interpretation with Respect to Crack Arrestor Spacing	11,13

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
5/1/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Richard Vanderhoek) – Presence of Submerged Cultural Resources in Cook Inlet	4
5/15/2015	Bureau of Land Management (BLM)	Letter	Letter to BLM (Bill Hedman) – Alaska LNG Phase II Site-Specific Plans for National Register of Historic Places (NRHP) Eligibility Evaluations	4
5/15/2015	Bureau of Land Management (BLM)	Letter	Letter to BLM (Dr. Robert King) – Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations	4
5/15/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Richard Vanderhoek) – Phase II Site-Specific Plans for NRHP Eligibility Evaluations	4
5/15/2015	State of Alaska Pipeline Coordinator's Section (SPCS)	Letter	Letter to SPCS (Mark Morones) – Phase II Site-Specific Plans for NRHP Eligibility Evaluations	4
5/20/2015	U.S. Army Corps of Engineers (USACE)	Email	Email to USACE (Mary Romero) – Wetlands Determination Protocol Notification	2
5/20/2015	U.S. Environmental Protection Agency (EPA)	Email	Email to EPA (Gayle Martin) – Wetlands Determination Protocol Notification	2
5/20/2015	U.S. Fish and Wildlife Service (USFWS)	Email	Email to USFWS (Jewel Bennett) – Wetlands Determination Protocol Notification	2
5/21/2015	Federal Energy Regulatory Commission (FERC)	Letter	Letter to FERC (Laurie Boros) – Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations	4
5/29/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter to OHA (Shina Duvall) – Proposed Phase II Site-Specific Methodology for Evaluation National Register of Historic Places (NRHP) Eligibility	4
6/8/2015	Natural Resources Group (NRG)	Letter	Letter to NRG (Jennifer Lee) – Environmental Impact Statement Summer Field Season Field Protocols	1, 2, 3, 4, 8
6/8/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter from OHA (Judith Bittner) – Concurrence on 2015 Proposed Phase II Site-Specific Methodology for Evaluation of NRHP Eligibility	4
6/25/2015	Bureau of Land Management (BLM)	Letter	Letter to BLM (Alan Peck) – Alaska LNG Air Quality Modelling Approach for Federal Conservation Units	9

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
7/1/2015	Chugach National Forest (CNF)	Letter	Letter to CNF (Deyna Kuntzch) – Alaska LNG Air Quality Modeling Approach for Federal Conservation Units	9
7/2/2015	National Park Service (NPS)	Letter	Letter to NPS (Brooke Merrell) – Alaska LNG Air Quality Modelling Approach for Federal Conservation Units	9
7/8/2015	U.S. Fish and Wildlife Service (USFWS)	Letter	Letter to USFWS (Jewel Bennett) – Alaska LNG Air Quality Modelling Approach for Federal Conservation Units	9
7/13/2015	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Alan Schuler) – Alaska LNG Air Quality Modeling Approach for Federal Conservation Units	9
7/14/2015	State of Alaska Office of History and Archaeology (OHA)	Letter	Letter from OHA (Judith Bittner) – Concurrence on Proposed Methodology for Evaluating the Presence of Submerged Cultural Resources in Cook Inlet	4
7/17/2015	U.S. Army Corps of Engineers (USACE)	Letter	Letter from USACE (Mike Salyer) –Wetlands Determination Protocol	2
7/20/2015	Bureau of Land Management (BLM)	Letter	Letter to BLM (Nichelle Jacobson) – Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations	4
7/20/2015	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter from ADEC (Alan Schuler) – Response to Air Quality Modeling Approach for Federal Conservation Units	9
7/24/2015	Bureau of Land Management (BLM)	Letter	Letter from BLM (Earle M. Williams) – Comments to Air Quality Modeling Approach for Federal Conservation Units	9
7/27/2015	Bureau of Land Management (BLM)	Letter	Letter to BLM (Randy Goodwin) – Visual/Aesthetics Study Work Plan	8
7/29/2015	State of Alaska Pipeline Coordinator's Section (SPCS)	Letter	Letter to SPCS (Mark Morones) – Visual/Aesthetics Study Work Plan	8
7/29/2015	National Park Service (NPS)	Letter	Letter from NPS (Joan Darnell) – Comments to Air Quality Modeling Approach for Federal Conservation Units	9
7/30/2015	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Mike Salyer) – Response to Wetland Delineation and Functional Assessment Protocol	2
7/31/2015	National Park Service (NPS)	Letter	Letter to NPS (Joan Darnell) – Visual/Aesthetics Study Work Plan	8

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
8/10/2015	U.S. Fish and Wildlife Service (USFWS)	Letter	Letter to USFWS (Jewel Bennett) – Visual/Aesthetics Study Work Plan	8
8/12/2015	U.S. Department of Agriculture, Chugach National Forest (CNF)	Letter	Letter from CNF (Terri Marceron) – Comments to Air Quality Modeling Approach for Federal Conservation Units	9
9/21/2015	U.S. Environmental Protection Agency (EPA)	Letter	Letter to EPA (Herman Wong) – Alaska LNG Air Quality Modeling Approach for Federal Conservation Units	9
9/21/2015 – 9/25/2015	U.S. Fish and Wildlife Service (USFWS)	Letter	Letter to USFWS (Jordan Muir) – Bald Eagle Nest Monitoring in Nikiski Alaska for Geotechnical & Geophysical Program	3
9/28/2015	U.S. Environmental Protection Agency (EPA)	Letter	Letter from EPA (Herman Wong) – Alaska LNG Air Quality Modeling Approach for Federal Conservation Unit	9
10/6/2015	Alaska Native Tribes	Sheet	Summary of Alaska LNG Project Informal Section 106 Consultations	4
10/14/2015	Alaska Native Tribes	Email	Email to the Alaska Native Tribes Following Up on Informal Section 106 Letter	4
10/16/2015	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Letter	Letter from PHMSA (John Gale) – Response to Request for Crack Arrestor Spacing Interpretation	11, 13
10/23/2015	City of Homer	Letter	Letter from City of Homer (Mary K. Koester) – Project Development Support	5
10/26/2015	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Meteorological Monitoring Site Amendment Request for Gas Treatment Plant	9
10/26/2015	FERC	Letter	Letter to FERC (James Martin) – Response to Knik Tribe	4
11/2/2015	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Letter	Letter to PHMSA (John Gale) – Interpretation of Cover Requirements for Cook Inlet Pipeline Crossing	11
11/10/2015	Alaska Department of Natural Resources – Mining, Land & Water (ADNR-DMLW)	Email	Email from ADNR-DMLW (Henry Brooks) – Public Notice of Water Right Application LAS 29332	2
11/10/2015	Bureau of Land Management (BLM)	Letter	Letter from BLM (Nichelle Jacobson) – Concurrence on Proposed Phase II Site-Specific Methodology for Evaluation	4
11/10/2015	Federal Energy Regulatory Commission (FERC)	Letter	Letter to FERC (James Martin) – Response to Knik Tribe Project Comments	4

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
11/19/2015	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Michael Salyer) – Project's Aquatic Site Assessment Comparison Analysis and Recommended Methodologies	2
11/24/2015	Alaska Department of Transportation & Public Facilities (ADOT&PF)	Letter	Letter to ADOT&PF (John Linnell) – Kenai Spur Highway Re-Route Request for Clarification on URA Applicability	1, 10
11/30/2015	Alaska Department of Natural Resources – Mining, Land & Water (ADNR-DMLW)	Email	Email from ADNR-DMLW (Henry Brooks) – Public Notice Water Right Application	1, 2
12/3/2015	U.S. Environmental Protection Agency (EPA)	Letter	Letter to EPA (Herman Wong) – Gas Treatment Plant (GTP) Offsite Inventory, Ozone and Secondary PM2.5 Modeling Approaches	9
12/16/2015	Native Village of Tyonek	Letter	CD Mail Out of Resource Report 1 (Draft)	All Reports
12/16/2015	Kenaitze Indian Tribe	Letter	CD Mail Out of Resource Report 1 (Draft)	All Reports
12/16/2015	Nenana Native Association	Letter	CD Mail Out of Resource Report 1 (Draft)	All Reports
12/16/2015	Knik Tribal Council	Letter	CD Mail Out of Resource Report 1 (Draft)	All Reports
12/16/2015	Native Village of Nuiqsut	Letter	CD Mail Out of Resource Report 1 (Draft)	All Reports
12/16/2015	Chickaloon Village Traditional Council	Letter	CD Mail Out of Resource Report 1 (Draft)	All Reports
1/14/2016	Chickaloon Native Village Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
1/14/2016	Chickaloon Village Traditional Council Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
1/14/2016	Knik Tribal Council Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
1/14/2016	Native Village of Nuiqsut Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
1/14/2016	Tyonek Tribal Conservation District Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
1/14/2016	Native Village of Tyonek Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
1/14/2016	Nenana Native Association Toghotthele Corporation Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
1/14/2016	Kenaitze Indian Tribe Alaska Department of Natural Resources (ADNR)	Letter	Map Book CD	1, 5, 8, 10
2/25/2016	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Transmittal of QAPP submittal	9
2/29/2016	Alaska Department of Environmental Conservation (ADEC)	Email	Email from ADEC (Elizabeth Nakanishi) – Confirmation of QAPP submittal	9
3/16/2016	U.S. Coast Guard (USCG)	Letter	Letter to USGS (P. Albertson) – Transmittal of Follow-on Waterway Suitability Assessment Report	11
3/21/2016	U.S. Coast Guard (USCG)	Email	Email from USGS (Eugene Chung) – Confirming receipt of final Follow-on Waterway Suitability Assessment Report	1, 11
3/28/2016	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Transmittal of Annual Data Report for the Alaska LNG Project Ambient Air Quality and Meteorological Monitoring Program	9
3/31/2016	Alaska House of Representatives – Mike Chenault's office Alaska State Senate City of Kenai City of Soldotna House of Representatives Kenai Peninsula Borough (KPB)	Email	Mobilization of 2016 Marine Field Work	1, 2, 3, 4, 8, 10
3/31/2016	Kenai Peninsula Fisherman's Association United Cook Inlet Drift Association (UCIDA)	Email	Mobilization of 2016 Marine Field Work	1, 2, 3, 4, 8, 10
3/31/2016	Nikiski Community Council	Email	Mobilization of 2016 Marine Field Work	1, 2, 3, 4, 8, 10
3/31/2016	Alaska Department of Fish and Game (ADFG)	Email	Mobilization of 2016 Marine Field Work	1, 2, 3, 4, 8,

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TABLE 1 External Correspondence				
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4/1/2016	Alaska Department of Natural Resources – Mining, Land & Water (ADNR-DMLW)	Letter	Letter from ADNR-DMLW (Christine Ballard) – Water Right Certificate of Appropriation, ADL 201536, Transfer	2
4/4/2016	Northern District Setnetters	Email	Mobilization of 2016 Marine Field Work	1, 2, 3, 4, 8, 10
5/2/2016	U.S. Army Corps of Engineers (USACE)	Letter	Letter from USACE (Sandy Gibson) – Review of 2015 Wetland Field Study Report	2
5/11/2016	Susitna-Watana Hydroelectric Project	Letter	Letter to Susitna-Watana Hydroelectric Project (Betsy McGregor) – Acquisition of Traditional Knowledge Data	5
5/20/2016	Bureau of Land Management (BLM)	Letter	Letter from BLM (Timothy La Marr) – Regarding potential project coverage under the Fixing America's Surface Transportation (FAST) Act	1
6/08/2016	Bureau of Land Management (BLM)	Email	Email to BLM (Earle Williams) – Transmitting Alaska LNG / TAPS engineering reports	1, 13
6/09/2016	Bureau of Land Management (BLM)	Letter	Letter to BLM (Timothy La Marr) – Response regarding information to assess project coverage under the FAST Act	1
6/23/2016	U.S. Coast Guard (USCG)	Letter	Letter from USCG (P. Albertson) – Approval of cryogenic pipe-in-pipe installation	11, 13
6/23/2016	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Ryan Winn) – Wetlands Mapping Protocols for POA-2015-329 and Providing 2015 Wetland Field Study Report	2
6/27/2016	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Sandy Gibson) – Transmittal of 2016 Aquatic Site Assessment (ASA) Pilot Program	2

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TABLE 1 External Correspondence				
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6/27/2016	U.S. Coast Guard (USCG)	Letter	Letter to USCG (Paul Albertson) – Submittal of Alaska LNG Project Follow-on Waterway Suitability Assessment Report Pursuant to 33 CFR 127.007	11
7/5/2016	National Marine Fisheries Service (NMFS)	Letter	Letter to NMFS (Briget Crokus) – Alaska LNG 2016 Field Program in the Beaufort Sea	3
7/5/2016	U.S. Coast Guard (USCG)	Letter	Letter from USCG (P. Albertson) – Letter 16611 – Approval of Use of Pipe-in-Pipe in Marine Transfer Area (USAL-PE-SALTR-00-000003-000)	11
7/5/2016	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Revised QAPP	9
7/07/2016	Alaska Department of Environmental Conservation (ADEC)	Email	Email from ADEC (Elizabeth Nakanishi) – Email concerning review of Meteorological Monitoring Data and Pollutant Monitoring Data - Nikiski	9
7/11/2016	State Pipeline Coordinators Office (SPCS)	Letter	Letter from SPCS (Jason Walsh) – Request for signing authority	1
7/12/2016	Alaska Department of Environmental Conservation (ADEC)	Email	Email to ADEC (Elizabeth Nakanishi) – Email concerning review of Meteorological Monitoring Data and Pollutant Monitoring Data - Nikiski	9
7/18/2016	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Sandy Gibson) – Aquatic Site Assessment Pilot Program for the Alaska LNG Project POA-2015-329	2
7/18/2016	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter from ADEC (Elizabeth Nakanishi) – Acknowledgement of Receipt – Quality Assurance Project Plan for the Alaska LNG Project Meteorological Monitoring Program – GTP Revision 1	9
7/18/2016	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (Elizabeth Nakanishi) – Quality Assurance Project Plan for the Alaska LNG Project Meteorological Monitoring Program – GTP Revision 1	9
7/18/2016	Alaska Department of Environmental Conservation (ADEC)	Letter	Letter to ADEC (James Rypkema) – Review of Nikiski Capital Dredge Material Characterization SAP	2, 3
7/21/2016	Alaska Department of Environmental Conservation (ADEC)	Email	Email from ADEC (Elizabeth Nakanishi) – Email concerning NTP CT 160001960 data review findings	9
8/11/2016	General Public	Scoping Comment(s) to FERC	FERC Docket No. PF14-21-000: Alaska LNG Project Denali National Park Alternative Supplemental Comment	1, 5, 8, 10



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TABLE 1 External Correspondence				
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8/15/2016	FERC	Letter	Letter to FERC (James Martin) – Notice of upcoming Allakaket Tribal Village meeting visit	4, 5
8/17/2016	U.S. Coast Guard (USCG)	Letter	Letter from USCG (P. Albertson) – Letter 16611 – Regarding Letter of Recommendation pursuant to 33 CFR 127.009 and Interagency Agreement (2004) to assist FERC in determining whether the Project should be authorized	11
8/26/2016	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Letter	Letter from PHMSA (Kenneth Lee) - Acceptability of Concrete LNG Storage Tank Design	1, 11, 13
9/7/2016	General Public	Scoping Comment(s) to FERC	FERC Docket No. PF14-21-000: Alaska LNG Project Denali National Park Alternative Supplemental Comment	1, 5, 8, 10
9/15/2016	State Historic Preservation Office (SHPO)	Letter	Letter from ADNR (Judith Bittner) – Determinations of National Register Eligibility	4
9/18/2016	Denali Citizens Council	Scoping Comment(s) to FERC	FERC Docket No. PF14-21-000: Alaska LNG Project Denali National Park Alternative Supplemental Comment	1, 5, 8, 10
9/26/2016	General Public	Scoping Comment(s) to FERC	FERC Docket No. PF14-21-000: Alaska LNG Project Denali National Park Alternative Supplemental Comment	1, 5, 8, 10
9/28/2016	Joint House and Senate Resources Committee	Letter	Alaska LNG Project Legislative Update	All
9/30/2016	State Historic Preservation Office (SHPO)	Letter	Letter from SHPO (Judith Bittner) – Determinations of National Register Eligibility for 15 Sites within the 2016 Project area	4
10/13/2016	U.S. Coast Guard (USCG)	Letter	Letter to USCG (P. Albertson) – Clarification request regarding approval of cryogenic pipe-in-pipe installation	11, 13
10/25/2016	U.S. Army Corps of Engineers (USACE)	Letter	Letter to USACE (Ryan Winn) – Transmittal of 2016 Wetland and Vegetation Field Study Report	2
10/28/2016	Alatna Tribal Council Allakaket Village Council Baan O Yeel Kon Corporation Ch'izhur, LLC	Letter	CD Copies of Resource Report Nos. 1–11 and 13	All Reports

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TABLE 1 External Correspondence				
Correspondence Date	External Group/Agency	Type	Topic	Applicable Resource Report
	Chickaloon Village Traditional Council Din e'h LLC Dinyea Corporation Eklutna Inc. Evansville Tribal Council Evansville, Inc. Healy Lake Village Inupiat Community of the Arctic Slope (ICAS) Kenai Natives Association Inc. Kenaitze Indian Tribe Knik Tribe K'oyitl'ots'ina Limited Kuukpik Village Corporation Naqsrarmiut Tribal Council Native Village of Barrow Native Village of Cantwell Native Village of Eklutna Native Village of Kaktovik Native Village of Minto Native Village of Nuiqsut Native Village of Stevens Native Village of Tyonek Nenana Native Association Ninilchik Native Association Ninilchik Tribal Council Rampart Traditional Council Salamatof Native Association Inc Seth-De-Ya-Ah Corporation Tanana Chiefs Council Toghotthele Corporation			
2/09/2017	Department of Defense (DOD)	Letter	Letter from DOD (Steven Sample) – Results of internal review	

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TABLE 1 External Correspondence				
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			through DOD Siting Clearinghouse	
2/11/2017	U.S. Coast Guard (USCG)	Letter	Letter from USCG (P. Albertson) – Letter 16611 – Regarding Letter of Recommendation pursuant to 33 CFR 127.009 and Interagency Agreement (2004) to assist FERC in determining whether the Project should be authorized	11
3/03/2017	State Historic Preservation Office (SHPO)	Email	Email from SHPO (Shina duVall) – Iditarod Dog Sledding area Multiple Property Document	4, 8
3/14/2017	U.S. Geological Survey	Email	Email from USGS (Howard Reeves) – Water Will Record Databases	2

See External Correspondence documentation in Attachment 1

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5/15/2013	State of Alaska Pipeline Coordinator's Section (SPCS)	Discuss 2013 Field Studies Scope and Reimbursable Services Agreement	1
5/16/2013	Bureau of Land Management (BLM)	Discuss 2013 Field Studies Scope, Submit Draft SF299 Form, and Discuss Reimbursable Services Agreement	1
5/20/2013	Federal Energy Regulatory Commission (FERC)	Discussion Regarding the Project and the Pre-Filing Process	1
5/29/2013	Bureau of Land Management (BLM)	Delivery and Review of Draft SF299 Application	1
6/4/2013	State of Alaska Pipeline Coordinator's Section (SPCS)	Delivery and Review of General Use Notification	8
6/4/2013	Bureau of Land Management (BLM)	Delivery and Review of Casual Use Notification	8
6/10/2013	North Slope Borough (NSB)	Discussion Regarding Permit Application	1
6/14/2013	Bureau of Land Management (BLM)	Discussion Regarding Status of Archaeological Resources Protection Act (ARPA) Permit Application	4
6/21/2013	Bureau of Land Management (BLM)	Discussion Regarding Archaeological Collection Permit	4
9/24/2013	State of Alaska Pipeline Coordinator's Section (SPCS)	Socioeconomic Team Meeting with SPCS to Discuss Alaska LNG and State Support with Subsistence and Health Impact Assessment (HIA) Surveys	5
10/16/2013	State of Alaska Pipeline Coordinator's Section (SPCS)	Review Cook Inlet Metocean Data Gathering Program and Necessary Approvals	6
10/17/2013	U.S. Army Corps of Engineers (USACE)	Discussion Regarding Cook Inlet Metocean Data Gathering Program and Necessary Approvals	6
10/17/2013	State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding LNG Site Air Monitoring and Met Station Placement and Authorization	9
10/18/2013	U.S. Coast Guard (USCG)	Discussion Regarding Cook Inlet Metocean Data Gathering Program and Necessary Approvals	6
10/23/2013	Alaska Department of Fish and Game (ADF&G) Department of Health & Social Services (DHSS) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Work Scope for Subsistence and Health Impact Studies	5
10/24/2013	National Marine Fisheries Service (NMFS)	Discussion Regarding Cook Inlet Metocean Data Gathering Program and Necessary Approvals	6
11/5/2013	Kenai Peninsula Borough (KPB)	Socioeconomic Team Attended KPB Assembly Meeting – No	5

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Correspondence Date	External Group/Agency	Topic	Applicable Resource Report
		Presentation	
11/21/2013	U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG)	Discussion Regarding Pipeline Routing Sensitivities in the Cook Inlet	1, 2, 3, 10
11/26/2013	Matanuska-Susitna Borough (MSB)	Project Presentation and Q&A Session with the Mayor and Staff	5
12/3/2013	Kenai Peninsula Borough (KPB)	Project Presentation to the KPB Lands Committee	5
12/10/2013	Fairbanks North Star Borough (FNSB)	Project Presentation and Q&A Session for the FNSB Mayor and the Mayors of Fairbanks and North Pole	5
12/10/2013	Bureau of Land Management (BLM) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding 2014 Field Study Scope and Submittal of Reimbursable Services Agreement Amendment Letter	1
1/9/2014	Alaska Department of Natural Resources (ADNR)	Discussion Regarding Gas Treatment Plant Siting	1, 10
1/30/2014	State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Health Impact Assessment (HIA)	5
2/18/2014	Alaska Department of Environmental Conservation (ADEC)	Discussion Regarding Nikiski Air Monitoring Station Placement	9
2/20/2014	Pipeline and Hazardous Materials Safety Admin. (PHMSA)	General Project Overview Discussion	1
2/21/2014	Federal Energy Regulatory Commission (FERC)	Discussion Regarding Pre-Filing Process	1
2/25/2014	Alaska Department of Environmental Conservation (ADEC) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding 2014 Summer Field Season Activities	1, 2, 3, 4, 8, 10
2/26/2014	Bureau of Land Management (BLM) National Park Service (NPS) U.S. Environmental Protection Agency (EPA) U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG) U.S. Fish and Wildlife Service (USFWS)	Summer Field Season Kickoff Presentation	1, 2, 3, 4, 8, 10
2/27/2014	Alaska Department of Fish and Game (ADF&G) Alaska Department of Natural Resources (ADNR) Alaska Railroad Corporation (ARRC) Bureau of Land Management (BLM) National Park Service (NPS) Alaska Railroad Corporation (ARRC)	Pipeline Right-Of-Way Workshop with State and Federal Regulators	1, 10

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	State of Alaska Pipeline Coordinator's Section (SPCS) U.S. Coast Guard (USCG) U.S. Fish and Wildlife Service (USFWS)		
3/4/2014	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Fish & Game (ADF&G) Alaska Department of Transportation and Public Facilities (ADOT&PF) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding 2014 Summer Field Season Activities	1, 2, 3, 4, 8, 10
3/4/2014	Bureau of Land Management (BLM) U.S. Fish and Wildlife Service (USFWS)	Discussion Regarding 2014 Summer Field Season Activities	1, 2, 3, 4, 8, 10
3/12/2014	Federal Energy Regulatory Commission (FERC)	Discussion Regarding Engineering Strategy	1
3/12/2014	Alaska Department of Natural Resources (ADNR)	Discuss Data from Previous Cultural Resource Services	4
3/25/2014	Alaska Department of Natural Resources, Division of Parks and Outdoor Recreation (ADNR) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Field Season Permit Application Development for The Denali State Park	1, 10
3/26/2014	State of Alaska Pipeline Coordinator's Section (SPCS)	Letter Submittal and Review Regarding Land Access	8
4/3/2014	State of Alaska Pipeline Coordinator's Section (SPCS)	Project Overview Presentation for New State Pipeline Coordinator	1
4/9/2014	Alaska Department of Geology and Geophysical Survey (ADGGS) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Fault Survey Plans and Potential Sharing of Information	6
4/9/2014	National Marine Fisheries Service (NMFS) U.S. Army Corps of Engineers (USACE)	Discussion Regarding Further Metocean Studies and Geotechnical and Geophysical Studies Permitting	6
4/9/2014	U.S. Army Corps of Engineers (USACE)	Discussion Regarding Gas Treatment Plant Fieldwork	1, 2, 3, 4, 8, 10
4/10/2014	State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Possible Support Framework	1
4/10/2014	Matanuska-Susitna Borough (MSB) Port Authority	Discussion Regarding Planned Capabilities and Limitations	1
4/15/2014	Alaska Department of Natural Resources (ADNR)	SHPO Review of ADNR Temporary Land Use Permit	4, 8
4/15/2014	U.S. Coast Guard (USCG)	Discussion Regarding Preliminary Waterway Suitability	11

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		Assessment Process	
4/24/2014	State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Further Metocean Studies and Geotechnical and Geophysical Studies Permitting	6
4/25/2014	Office of Project Management and Permitting (OPMP)	Discussion Regarding Agency Support Capabilities	1
5/13/2014	Department of Health and Social Services (DHSS)	Discussion Regarding Scope and Schedule of Health Impact Assessment (HIA)	5
5/15/2014	State of Alaska Office of History and Archaeology (OHA)	Discuss 2014 Cultural Resource Survey Program with OHA	4
5/27/2014	West Dock Users Group	Discussion Regarding Authorizations Required or Contract(s) Needed from the West Dock Users Group to Enable Preliminary Studies to Support the Gas Treatment Plant	1, 2
5/28/2014	U.S. Fish and Wildlife Service (USFWS)	Discussion Regarding Authorizations Required for Preliminary Studies to Support the Gas Treatment Plant	1, 3
5/29/2014	U.S. Environmental Protection Agency (USEPA) U.S. Army Corps of Engineers (USACE)	Discussion Regarding Authorizations Required for Preliminary Studies to Support the Gas Treatment Plant	1, 2, 3, 4, 8, 10
5/29/2014	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Fish and Game (ADF&G) Alaska Department of Transportation and Public Facilities (ADOT&PF) Office of Project Management and Permitting (OPMP) State Pipeline Coordinators Office (SPCS)	Discussion Regarding Authorizations Necessary for 2014 Summer Field Season Activities	1, 2, 3, 4, 8, 10
5/30/2014	National Marine Fisheries Service (NMFS)	Discussion Regarding Authorizations Required for Preliminary Studies to Support the Gas Treatment Plant	1, 2, 3, 4, 8, 10
6/4/2014	Alaska Department of Fish & Game (ADF&G) Alaska Department of Natural Resources (ADNR) Kenai Peninsula Borough River Center US Army Corps of Engineers (USACE) US Fish & Wildlife Service (USFWS)	Geotechnical & Geophysical Survey KPB Permits Pre-Application Meeting	1, 2, 3, 4, 8, 10
6/4/2014	Kenai Peninsula Borough (KPB)	Discussion Regarding 2014 Field Activities	1, 2, 3, 4, 8, 10
6/5/2014	U.S. Department of Energy Office of Fossil Energy (DOE/FE)	Discuss Export Application	1

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6/9/2014	North Slope Borough (NSB)	Discuss Bathymetry Survey and Required NSB Permitting	2
6/9/2014	Alaska Department of Fish and Game (ADF&G) Bureau of Land Management (BLM) State of Alaska Office of History and Archaeology (OHA) U.S. Army Corps of Engineers (USACE)	Discussion Regarding Historical Field Survey Data and Protocols	1, 2, 3, 4, 8, 10
6/10/2014	State of Alaska Office of History and Archaeology (OHA) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Cultural Resources Survey Protocols And Data	4
6/11/2014	Bureau of Land Management (BLM)	Discussion Regarding Cultural Resources Survey Protocols And Data	4
6/11/2014	Alaska Department of Fish and Game (ADF&G) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Fish Stream and Lakes Investigation Survey Protocols And Data	2, 3
6/12/2014	U.S. Army Corps of Engineers (USACE)	Discussion Regarding Wetlands Assessment Protocol and Data	2
6/12/2014	Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Regulatory Limitations and Proposed Routing	1, 10
6/12/2014	Alaska Gasline Development Corporation (AGDC) State of Alaska Pipeline Coordinator's Section (SPCS)	Joint Discussion Regarding State Park Lands Permitting	1, 8, 10
6/19/2014	Ahtna, Inc. Alaska Gas Development Company (AGDC) Alaska Stand Alone Pipeline (ASAP)	Discuss Permit Application for ASAP's Geotechnical and Geophysical Program on Ahtna Lands	6
6/27/2014	Alaska Department of Natural Resources (ADNR)	Pre-Application Meeting	1, 4
6/30/2014	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Discussion Regarding Permit Requirements for Geotechnical and Geophysical Studies	6
7/9/2014	North Slope Borough (NSB)	NSB Inupiat History, Language and Culture (IHLC) Permitting Requirements	4
7/10/2014	Alaska Department of Environmental Conservation (ADEC)	Discussion Regarding Strategy and Approach to Using Data from the Proposed Ambient Air Monitoring and Meteorological Data Gathering Program Near Nikiski	9



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7/29/2014	Federal Energy Regulatory Commission (FERC)	Discussion Regarding Natural Gas Act (NGA) Section 3	1
7/31/2014	Federal Energy Regulatory Commission (FERC)	Discussion Regarding Pre-Filing Process	1
8/4/2014	Alaska Department of Transportation and Public Facilities (ADOT&PF) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Pre-Application Meeting Regarding Liquefaction Facility Geotechnical and Geophysical Survey Program	6
8/13/2014	Kenai Peninsula Economic Development District U.S. Economic Development Administration (USEDA)	Discussion about Project Economic Development Impacts to Communities on the Kenai Peninsula	5
8/14/2014	Alaska Department of Transportation and Public Facilities (ADOT&PF) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Pre-Application Meeting Regarding Pipeline Geotechnical and Geophysical Survey Program	5
8/26/2014	Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Project Update for Alaska Department of Natural Resources Representative	1
8/27/2014	State of Alaska Office of History and Archaeology (OHA) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Cultural Resource Data	4
8/28/2014	Bureau of Land Management (BLM)	Discussion Regarding Cultural Resource Data	4
8/28/2014	Alaska Department of Fish and Game (ADF&G)	Discussion Regarding Fisheries Data	3
9/2/2014	U.S. Army Corps of Engineers (USACE)	Discussion of Previously Submitted Wetlands Data	2
9/9/2014	U.S. Army Corps of Engineers (USACE) U.S. Environmental Protection Agency (EPA)	Discussion of Sediment Sampling Locations	2, 7
9/18/2014	Federal Energy Regulatory Commission (FERC)	Technical Consultation with FERC Regarding Public and Agency Meetings	1, 5
9/30/2014	Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Project Presentation	1
9/30/2014	Municipal Advisory Group (MAG)	Project Presentation	5
10/1/2014	U.S. Army Corps of Engineers (USACE)	Discussion Regarding Permitting and Pre-File Activities	1, 2
10/1/2014	U.S. Fish and Wildlife Service (USFWS)	Discussion Regarding Permitting and Pre-File Activities	1, 3
10/1/2014	Alaska Department of Environmental Conservation (ADEC)	Discussion Regarding Permitting and Pre-File Activities	1, 2, 9

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10/1/2014	National Marine Fisheries Service (NMFS)	Discussion Regarding Permitting and Pre-File Activities	1, 3
10/3/2014	Bureau of Land Management (BLM) State of Alaska Office of History and Archaeology (OHA) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Permitting and Pre-File Activities	1, 4, 8
10/3/2014	U.S. Coast Guard (USCG)	Discussion Regarding Permitting and Pre-File Activities	1, 2, 11
10/7/2014	U.S. Coast Guard (USCG)	Discuss Regarding Permitting and Pre-File Activities	1, 2, 11
10/7/2014	Federal Energy Regulatory Commission (FERC)	Follow-Up Discussion with FERC on Public Meetings	1, 5
10/8/2014	National Marine Fisheries Service (NMFS)	Discussion Regarding Permitting and Pre-File Activities	1, 3
10/8/2014	Alaska Inter-Agency Working Group Meeting	Project Presentation	1
10/16/2014	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Discussion Regarding the Potential Relocation of the Kenai Spur Highway and Other Project Logistics And Infrastructure Considerations	1, 10
10/17/2014	U.S. Coast Guard (USCG)	Discussion Regarding the Waterway Suitability Assessment (WSA) Process	11
10/21/2014	Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding North Slope Winter 2015 Field Programs	1, 2
10/22/2014	National Marine Fisheries Service (NMFS)	Discuss Notification Letter to the National Oceanic and Atmospheric Administration (NOAA) for USACE NWP5, POA-2013-610	3
10/22/2014	Alaska Department of Fish and Game (ADF&G) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Gas Treatment Plant Water Reservoir Design	1, 10
10/22/2014	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Natural Resources (ADNR) U.S. Army Corps of Engineers (USACE) U.S. Environmental Protection Agency (USEPA) National Marine Fisheries Service (NMFS)	Discussion Regarding North Slope Test Trench Permitting	1, 2, 10
10/23/2014	North Slope Borough (NSB), Planning Department Office of Project Management and Permitting (OPMP)	Discussion Regarding North Slope Winter 2015 Field Programs	1, 2

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	State of Alaska Pipeline Coordinator's Section (SPCS)		
10/28/2014	Alaska Department of Transportation and Public Facilities (ADOT&PF) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Geotechnical Studies Along the Mainline Corridor	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
11/13/2014	U.S. Fish and Wildlife Service (USFWS)	Participated in Industry Collaboration Meeting to Discuss Polar Bear Den Surveys On the North Slope	3
11/13/2014	Alaska Department of Environmental Conservation (ADEC)	Discuss Alaska Pollutant Discharge Elimination System (APDES) General Discharge Permit	2
11/13/2014	Alaska Department of Environmental Conservation (ADEC)	Midstream Facilities Minor Air Permit Approach	9
11/14/2014	U.S. Coast Guard (USCG)	Discussion Regarding Project Logistics and Planning	1
11/20/2014	Alaska Department of Environmental Conservation (ADEC)	Discussion of APDES General Discharge Permit Program	2
11/25/2014	Alaska Department of Environmental Conservation (ADEC) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discuss Nikiski Meteorological Tower	9
12/5/2014	Alaska Department of Environmental Conservation (ADEC) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discuss 2015 Cook Inlet Geotechnical and Geophysical Survey Program	6
12/10/2014	Alaska Inter-Agency Working Group	Project Presentation	1
12/10/2014	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Project Presentation	1
12/12/2014	U.S. Army Corps of Engineers (USACE)	Discussion Regarding Cook Inlet Dredging	2
12/16/2014	Bureau of Land Management (BLM) Office of Project Management and Permitting (OPMP)	Discussion Regarding Agency's Feedback on Prior Submitted Field Data	4
12/17/2014	State of Alaska Office of History and Archaeology (OHA) Office of Project Management and Permitting (OPMP) State of Alaska Pipeline Coordinator's Section (SPCS)	Discussion Regarding Agency's Feedback on Prior Submitted Field Data	4
1/6/2015	State Pipeline Coordinators Office (SPCS)	National Environmental Policy Act (NEPA) Coordination Meeting with SPCS	1
1/8/2015	National Marine Fisheries Service (NMFS)	Pre-Application Discussion – 2015 Cook Inlet Geotechnical and	3

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	State of Alaska Pipeline Coordinator's Section (SPCS)	Geophysical Incidental Harassment Authorization	
1/12/2015	Alaska Conservation Fund	Compensatory Mitigation for Gas Treatment Plant Test Trench Program	2
1/14/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF) State of Alaska Pipeline Coordinator's Section (SPCS)	Kenai Spur Highway Reroute	10
1/15/2015	Alaska Department of Environmental Conservation (ADEC)	Gas Treatment Plant Air Monitoring & PSD Modeling	9
1/16/2015	National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) and Essential Fish Habitat (EFH) Consultation Processes for Gas Treatment Plant and Cook Inlet Geophysical & Geotechnical Field Programs	3
1/21/2015	U.S. Coast Guard (USCG)	Waterway Suitability Assessment 2015 Schedule Overview	11
1/22/2015	Ahtna Inc.	Update on AHTNA Permit – 2014 Summer Field Season and 2015 Plans	8
2/5/2015	North Slope Gas Commercialization Permitting Coordination Team State Pipeline Coordinators Office (SPCS)	LNG Plant – Onshore 2015 Geotechnical and Geophysical Cultural Survey	4
2/6/2015	North Slope Gas Commercialization Permitting Coordination Team U.S. Coast Guard (USCG)	Waterway Suitability Assessment Port Characterization Report Review & Stakeholder Meeting Preparation	11
2/10/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF) Federal Energy Regulatory Commission (FERC) National Marine Fisheries Service (NMFS) U.S. National Park Service (NPS) North Slope Gas Commercialization Permitting Coordination Team U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG) U.S. Department of Energy – Office of Fossil Energy (USDOE) U.S. Fish and Wildlife Service (USFWS) U.S. Department of the Interior (USDOI) U.S. Environmental Protection Agency (EPA)	Project Agency Web Mapping Application and SharePoint Overview	1
2/12/2015	Alaska Department of Fish and Game (ADF&G) Kenai Peninsula Borough (KPB)	2015 Nikiski and Cook Inlet Area Geophysical and Geotechnical Programs	6

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	North Slope Gas Commercialization Permitting Coordination Team U.S. Army Corps of Engineers (USACE) U.S. Fish and Wildlife Service (USFWS)		
2/12/2015	Alaska Department of Fish and Game (ADF&G)	ADF&G Soldotna – Commercial Fishing Schedules	3
2/13/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Pipeline Team Kick-off with PHMSA	11
2/17/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	2015 Nikiski Onshore Geotechnical and Geophysical Pre-Application Meeting	6
2/25/2015	Federal Energy Regulatory Commission (FERC)	NEPA Air Quality Requirements	9
2/26/2015	Federal Energy Regulatory Commission (FERC)	Endangered Species Act Consultation for Field Study Incidental Harassment Authorization Application	3
2/26/2015	Federal Energy Regulatory Commission (FERC)	FERC Expectations and Requirements for Project Subsistence Study	5
3/2/2015	City of Homer Port of Homer U.S. Coast Guard (USCG)	Emergency Response and Vessel Assurance and Marine Operations Management	11
3/2/2015	City of Homer Port of Homer U.S. Coast Guard (USCG)	Logistics Breakout Session at Homer Emergency Response and Vessel Assurance Meeting	11
3/2/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Special Permit Process, Strain-Based Design and Planned Pre-FEED Activities	11
3/4/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	HDR Alaska Kickoff, Kenai Spur Highway Feasibility Study	1
3/5/2015	U.S. Coast Guard (USCG)	Emergency Response Vessel Assurance & Marine Operations Management	11
3/6/2015	Alaska Department of Environmental Conservation (ADEC)	Project /overview	9
3/9/2015	Alaska Department of Natural Resources (ADNR) Alaska Department of Revenue (ADOR)	Project Update and Tour of Houston Alaska LNG Office	5
3/16/2015 – 3/18/2015	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Fish and Game (ADFG) Alaska Department of Natural Resources (ADNR)	FERC and Agency First Draft Resource Report Workshops	1

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	Alaska Department of Transportation and Public Facilities (ADOT&PF) Bureau of Land Management (BLM) Federal Energy Regulatory Commission (FERC) Natural Resources Group (NRG) National Marine Fisheries Service (NMFS) Pipeline and Hazardous Materials Safety Administration (PHMSA) State Historic Preservation Office (SHPO) State Pipeline Coordinators Office (SPCS) U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG) U.S. Department of the Interior (USDOI) U.S. Environmental Protection Agency (EPA) U.S. Fish and Wildlife Service (USFWS) U.S. National Park Service (NPS)		
3/31/2015	Alaska Department of Natural Resources (ADNR) Alaska Department of Transportation and Public Facilities (ADOT&PF) Alaska Stand Alone Pipeline Project (ASAP) Alyeska Pipeline Service Company (APSC) Bureau of Land Management (BLM) U.S. Fish and Wildlife Service (USFWS)	Gravel Summit Workshop – BLM Update to Central Yukon Resource Management Plan	8
3/31/2015	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Fish and Game (ADF&G) Alaska Department of Military and Veteran's Affairs (ADMVA) Cook Inlet Regional Citizens Advisory Council (CIRCAC) Crowley Maritime Corporation Kenai Peninsula Borough (KPB) Kenai LNG Plant National Oceanic and Atmospheric Administration (NOAA) Port of Homer United Cook Inlet Drift Association (UCIDA)	Waterway Suitability Assessment Information Meeting – Technical Assessment Group	11

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	U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG) U.S. Department of Homeland Security (USDHS)		
3/31/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Project Overview	5
4/2/2015	Alaska Department of Labor and Workforce Development (ADLWD)	Introduction to Project, Discuss Roll-out of Labor Study	5
4/6/2015	U.S. Fish and Wildlife Service (USFWS)	Review Avian Raptor Protocols with USFWS	3
4/12/2015	Alaska Department of Fish and Game (ADF&G)	ADF&G Wildlife Training for Geotechnical and Geophysical Survey Team	3, 6
4/14/2015	Alaska Department of Natural Resources (ADNR), Division of Mining Land and Water	Pacific Alaska LNG Leases – Access to Archived Records	8
4/15/2015	National Marine Fisheries Service (NMFS)	Review of Final NMFS Comments & Updates to Cook Inlet Geotechnical and Geophysical Incidental Harassment Authorization Application	3
4/17/2015	State Historic Preservation Office (SHPO)	Methodology for Evaluating the Presence of Submerged Cultural Resources in Cook Inlet	4
4/20/2015	Kenai Peninsula Borough (KPB)	2015 Permitting for Activities in the Kenai Peninsula Borough	1, 2, 3, 4, 6, 7, 8
4/21/2015	Bureau of Land Management (BLM) Federal Energy Regulatory Commission (FERC) U.S. Fish and Wildlife Service (USFWS) U.S. National Park Service (NPS)	Federal Land Managers Air Quality Meeting	9
4/23/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Offshore Pipeline Design, Odorization Requirements, Filing of Special Permit Applications (Strain-Based Design)	11
4/24/2015	National Marine Fisheries Service (NMFS)	Review Project Biological Assessment Outline with NMFS	3
4/28/2015	Alaska Department of Environmental Conservation (ADEC)	Review of APDES Application for 2015 Cook Inlet Geotechnical Surveys	2
4/29/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Liquefaction Facility Overview	1, 11, 13
4/30/2015	U.S. Coast Guard (USCG)	Maritime Safety and Security Review at USCG Sector Anchorage JBER	11

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5/1/2015	North Slope Borough (NSB)	Project update focusing on portions within the NSB (Pipelines and Gas Treatment Plant)	1, 5, 6, 8
5/4/2015	Alaska Department of Environmental Conservation (ADEC)	Project Compressor Stations – Minor Source Status and Use of AERMOD with Screening Meteorological Data	9
5/5/2015	Alaska Department of Environmental Conservation (ADEC)	Project overview, Air Permits Overview, Schedule and Personnel Resourcing, Future Engagements	9
5/8/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway Update	1, 10
5/8/2015	U.S. Coast Guard (USCG)	Review Waterway Suitability Assessment Workshop Slides	11
5/12/2015	Alaska Department of Health and Human Services (ADHHS) Alaska Department of Natural Resources (ADNR) National Park Service (NPS) Department of Revenue (DPOR) Alaska Department of Transportation and Public Facilities (ADOT&PF) Alaska Department of Fish and Game (ADF&G) U.S. Environmental Protection Agency (EPA) U.S. Fish and Wildlife Service (USFWS) State Pipeline Coordinators Office (SPCS) Alaska Department of Environmental Conservation (ADEC) U.S. Army Corps of Engineers (USACE) Bureau of Land Management (BLM) Federal Energy Regulatory Commission (FERC) Natural Resources Group (NRG) North Slope Borough (NSB) State Historic Preservation Office (SHPO) Denali Borough Kenai Borough Alaska Department of Geology and Geophysical Survey (ADGGS)	Multi-Agency Pipeline Routing Workshop	1, 10
5/13/2015	Alaska Department of Fish and Game (ADF&G)	Waterbody Crossing Review	2
5/12/2015 – 5/14/2015	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Fish and Game (ADF&G)	Waterway Suitability Assessment Workshop	11



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	Alaska Department of Natural Resources (ADNR) Cook Inlet Regional Citizens Advisory Council (CIRCAC) Crowley Maritime Corporation Hartley Marine Kenai LNG Plant Kenai Peninsula Borough (KPB) Port of Homer Southwest Alaska Pilots Association (SWAPA) State Pipeline Coordinators Office (SPCS) United Cook Inlet Drift Association (UCIDA) U.S. Coast Guard (USCG) US Department of Homeland Security (USDHS)		
5/14/2015	U.S. Army Corps of Engineers (USACE) U.S. Environmental Protection Agency (EPA) U.S. Fish and Wildlife Service (USFWS)	USACE Aquatic Site Assessment Guidance	2
5/18/2015	Kenai Peninsula Borough (KPB)	Kenai Spur Highway Update	1, 10
5/19/2015	Alaska Department of Environmental Conservation (ADEC) U.S. Coast Guard (USCG) U.S. Environmental Protection Agency (USEPA) Cook Inlet Subarea Committee	Project Overview	5
5/26/2015	U.S. Fish and Wildlife Service (USFWS)	Project USFWS Section 7 Consultation Initiation	3
5/27/2015	Alaska State Office of History and Archaeology (OHA)	Alaska State Office of History and Archaeology Phase II Protocols Meeting	4
5/27/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF) Kenai Peninsula Borough (KPB)	Review of Preliminary Findings – Kenai Spur Highway Reroute	1, 10
5/28/2015	Federal Energy Regulatory Commission (FERC)	Meeting with FERC on Resource Report No. 6/Resource Report No. 13 Design Requirements and Expectations	6, 13
5/28/2015	Federal Energy Regulatory Commission (FERC) U.S. Department of Energy (USDOE), Office of Fossil Energy	Roundtable Discussion – Federal Processes for Permitting Alaska LNG Project	1

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	U.S. Department of the Interior (USDOI)		
6/3/2015	Federal Energy Regulatory Commission (FERC) State of Alaska (SoA), DC Office	FERC Requirements, Hazard Analysis for Gas Treatment Plant	11
6/5/2015	Alaska State Fire Marshal's Office	Project Introduction	5
6/10/2015	Bureau of Land Management (BLM)	Bureau of Land Management Phase II Protocols Meeting	4
6/11/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Project Schedule, Special Permit Filing Process, Independent Third-Party Review, Strain-Based Design Assessment	11
6/23/2015	Federal Energy Regulatory Commission (FERC)	Timing of Air Permits Relative to FERC Application and Timing of The Draft Environmental Impact Statement	9
6/24/2015	U.S. Department of the Interior (USDOI)	Project Update	5
6/24/2015	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Fish and Game (ADF&G) Alaska Department of Natural Resources (ADNR) Alaska Department of Transportation and Public Facilities (ADOT&PF) North Slope Borough (NSB) State Pipeline Coordinators Office (SPCS) U.S. Army Corps of Engineers (USACE) U.S. Department of the Interior (USDOI) U.S. Environmental Protection Agency (EPA) U.S. Fish and Wildlife Service (USFWS)	Multi-Agency Pipeline Construction Execution Workshop	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
6/25/2015	U.S. Department of Energy (USDOE)	Project Update	5
6/25/2015	State of Alaska Pipeline Coordinator's Section (SPCS) U.S. Fish and Wildlife Service (USFWS) Federal Energy Regulatory Commission (FERC) Natural Resources Group (NRG) National Oceanic and Atmospheric Administration (NOAA) Alaska Department of Health and Human Services (ADHHS)	Multi-Agency Waterbody Crossings Workshop	1, 2, 10
7/1/2015	National Marine Fisheries Service (NMFS)	Meeting with NMFS Regarding Support for Beluga Whale Research	3

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7/9/2015	Federal Energy Regulatory Commission (FERC) Pipeline and Hazardous Materials Safety Administration (PHMSA)	LNG Vapor Dispersion Modeling Assumptions and LNG Storage Tank Design	11, 13
7/10/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Pipeline Special Permits	11
7/14/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Update on Special Permit Timing in Relation to Federal Energy Regulatory Commission Environmental Impact Statement	11
7/27/2015	Alaska Department of Environmental Conservation (ADEC)	Project Compressor Station Modeling	9
7/29/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Pipeline Kick Off Meeting – Strain-Based Design Independent Third-Party Review	11
7/29/2015	Alaska State Office of History and Archaeology (OHA)	Discuss Strategy, Schedule, and Approach to Programmatic Agreements, NRHP Eligibility	4
7/30/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA) United States Department of Transportation (USDOT)	PHMSA Special Permit Filing Process and Schedule	11
8/5/2015	U.S. Army Corps of Engineers (USACE) U.S. Environmental Protection Agency (USEPA)	Alaska LNG Air Quality Management	9
8/7/2015	Alaska Department of Natural Resources (ADNR) Bureau of Land Management (BLM) U.S. Fish and Wildlife Service (USFWS) U.S. National Park Service (NPS)	Alaska LNG Visual Aesthetics Study Work Plan	8
8/11/2015	Bureau of Land Management (BLM)	BLM Right-of-Way Grant/Plan of Development (POD) Preliminary Discussion	8
8/12/2015	Alaska Department of Fish and Game (ADFG) Alaska Department of Natural Resources (ADNR) Federal Energy Regulatory Commission (FERC) National Marine Fisheries Service (NMFS) North Slope Borough (NSB) State Pipeline Coordinators Office (SPCS) U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG) U.S. Environmental Protection Agency (EPA) U.S. Fish and Wildlife Service (USFWS)	Gas Treatment Plant Footprint Review Workshop	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
8/18/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Memorandum of Understanding (MOU) In Lieu of More Detailed	1, 8

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		Agreement	
8/19/2015	Alaska Department of Labor and Workforce Development (ADLWD)	Review Alaska State Training Programs, Facilities and Workforce Development Programs	5
8/19/2015	Alaska Department of Labor and Workforce Development (ADLWD)	Provide Update of Labor Study Progress/Status to Alaska Commissioner of Labor and Workforce Development	5
8/19/2015	Alaska Department of Fish and Game (ADFG) Alaska Department of Natural Resources (ADNR) Federal Energy Regulatory Commission (FERC) Kenai Peninsula Borough (KPB) Matanuska-Susitna Borough National Marine Fisheries Service (NMFS) State Pipeline Coordinators Office (SPCS) U.S. Army Corps of Engineers (USACE) U.S. Fish and Wildlife Service (USFWS)	Cook Inlet Routing and Construction Review	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
8/20/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Discuss Line Pipe Test Results, Strain-Based Design, High Integrity Coating Systems and Project Regulatory Schedule	11
8/24/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF) Kenai Peninsula Borough (KPB)	Kenai Spur Highway Relocation Next Steps	1, 5, 8
8/26/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Discuss Kenai Spur Highway Right-of-Way Acquisition Process	1, 5, 8
9/2/2015	Alaska Department of Fish and Game (ADFG) Alaska Department of Natural Resources (ADNR) Alaska Department of Transportation and Public Facilities (ADOT&PF) Federal Energy Regulatory Commission (FERC) Kenai Peninsula Borough (KPB) National Marine Fisheries Service (NMFS) State Pipeline Coordinators Office (SPCS) U.S. Army Corps of Engineers (USACE) U.S. Coast Guard (USCG) U.S. Fish and Wildlife Service (USFWS)	Liquefaction Facility (LNG Plant and Marine Terminal) Footprint Review	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
9/3/2015	Alaska Department of Natural Resources (ADNR) Federal Energy Regulatory Commission (FERC) National Marine Fisheries Service (NMFS) State Pipeline Coordinators Office (SPCS) U.S. Army Corps of Engineers (USACE)	Dredging Workshop	1, 2, 3, 8, 10

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	U.S. Coast Guard (USCG) U.S. Environmental Protection Agency (EPA) U.S. Fish and Wildlife Service (USFWS)		
9/9/2015	Federal Energy Regulatory Commission (FERC)	Review of Proposed Modifications to Wetland and Waterbody Crossing Procedures (Procedures)	2
9/10/2015	Federal Energy Regulatory Commission (FERC)	Review of Proposed Modifications to Upland Erosion and Sedimentation Control Plan (Plan)	7
9/16/2015	Alaska Department of Natural Resources (ADNR)	Gas Treatment Plant Exclusion Zone Discussion	8, 11
9/17/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway (KSH) Memorandum of Understanding Planning	1, 5, 8
9/21/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Strain-Based Design	11
9/25/2015	Alaska Department of Environmental Conservation (ADEC)	Gas Treatment Plant Air Modeling Guidance	9
9/28/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway Relocation Feasibility Report	1, 5, 8
9/30/2015	Federal Energy Regulatory Commission (FERC)	Review of Liquefaction Facility/Marine Civil/Seismic/Geotechnical Design Criteria	6, 13
10/1/2015	Federal Energy Regulatory Commission (FERC) Pipeline and Hazardous Materials Safety Administration (PHMSA) U.S. Department of Transportation (USDOT)	Review of Pipeline Civil/Seismic/Geotechnical Design Criteria	6, 13
10/1/2015	Federal Energy Regulatory Commission (FERC)	Discuss Gas Treatment Plant Resource Report No. 13 Scope of Work	13
10/6/2015	U.S. Coast Guard (USCG)	Introduction to Pipe-In-Pipe Technology	11
10/7/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Update On Kenai Spur Highway Relocation Project	1, 5, 8
10/9/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Update On Kenai Spur Highway Relocation Project	1, 5, 8
10/14/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Discussion of Offshore Design	11
10/15/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway General Project Issues	1, 5, 8
10/19/2015	U.S. Coast Guard (USCG)	Review of Draft Follow-on Waterway Suitability Assessment Report	11
10/20/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Review of Integrated Logistics Plan with ADOT&PF	1, 5, 10

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		Commissioner	
10/22/2015	U.S. Coast Guard (USCG)	Project Update to USCG Captain of the Port	2, 3
10/27/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Bi-weekly Meeting: Kenai Spur Highway Relocation	1, 5, 8
10/28/2015	Alaska Department of Labor and Workforce Development (ADLWD)	Project Update at Department of Labor Annual Workforce Development Workshop	5
10/29/2015	U.S. Environmental Protection Agency (EPA)	EPA Concurrence of NEPA Air Modeling Protocol	9
11/4/2015	Alaska Department of Environmental Conservation (ADEC)	Review Proposed Approach to Gas Treatment Plant Air Modeling "Sharp Gradients"	9
11/05/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Tensile Strain Capacity Prediction Technology Development	10
11/9/2015	Federal Energy Regulatory Commission (FERC)	Air Quality Meeting	5
11/12/2015	United States Environmental Protection Agency (EPA) Alaska Department of Environmental Conservation (ADEC)	Review Application Approach to Gas Treatment Plant Air Modeling "Sharp Gradients"	5
11/16/2016	Alaska Department of Natural Resources (ADNR)	ADNR Water Pre-Application Meeting	2
11/16/2015	Federal Energy Regulatory Commission (FERC)	Technical Questions Regarding Thermal Radiation and Vapor Dispersion Analysis	5
11/20/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Uniform Relocation Act Applicability, Nikiski Growth Rate Projections	5
11/23/2015	Alaska Department of Environmental Conservation (ADEC)	Rooftop Intercoolers at PBY CCP/CGF Impact Turbine Exhaust Plumes for GTP Cumulative Modeling Approach	9
11/24/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	MOU Bi-Weekly Meeting	10
12/02/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Multi-Layer Coatings, Strain Monitoring and Condition Review.	10
12/08/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway Bi-Weekly Meeting	10
12/11/2015	Alaska Department of Natural Resources (ADNR)	IHA and Subsistence Discussion, Resource Report Schedules	5
12/14/2015	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway Plan Review and Approval Process Discussion	10
12/15/2015	United States Environmental Protection Agency (EPA) Alaska Department of Environmental Conservation (ADEC)	Introduce Agencies to Effective Building Dimensions (EBD) Wind Tunnel Study	9
12/16/2015	Pipeline and Hazardous Materials Safety Administration (PHMSA)	2015 Alaska LNG Project End-of-Year Review	10

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1/20/2016	ADNR, Commissioner's Office ADNR, State Pipeline Coordinator's Section Alaska Department of Natural Resources (ADNR) North Slope Gas Commercialization Permitting Coordination Team	State Regulatory Coordination	All Reports
1/22/2016	ADNR, State Pipeline Coordinator's Section Alaska Department of Natural Resources (ADNR) State Historic Preservation Office	Cultural Resources Plan for 2015–2016 Pipeline Geotechnical and Geophysical Program	4
1/25/2016	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Strain-Based Design Independent Third-Party Review report out and Special Permits Filing Considerations	11
2/3/2016	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Multi-Layer Coatings Independent Third-Party Review	11
2/9/2016	ADNR – Office of Project Management and Permitting (OPMP) Alaska Energy Authority	Meeting with Alaska Energy Authority to Discuss Acquisition of Traditional Knowledge Data	5
2/11/2016	U.S. Coast Guard (USCG)	Update on Marine Activities	2
2/12/2016	U.S. Coast Guard (USCG)	Update on Marine Activity to 17th District	2
2/22/2016	National Park Service (NPS)	Mainline Routing Alternatives in the vicinity of Denali National Park and Preserve	10
2/22/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Strain-Based Design Special Permit Conditions and FERC/NEPA Filing Requirements for Special Permits	10
2/26/2016	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Highway Crossings, Pipeline	1
3/3/2016	Federal Energy Regulatory Commission (FERC)	Project Overview	All Reports
3/15/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Crack Arrestor and Mainline Block Valve Special Permit analysis and Strain-Based Design Change Process	11
3/16/2016	Alaska Department of Natural Resources (ADNR) United States Army Corps of Engineers (USACE) Alaska Department of Environmental Conservation (ADEC) United States Environmental Protection Agency (EPA)	Overview of Sediment Sampling Scope for Capital Dredging at Nikiski	6
3/24/2016	Federal Energy Regulatory Commission (FERC)	Geotechnical and Geophysical	6, 11
3/31/2016	Federal Energy Regulatory Commission (FERC)	Project Review	All Reports

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3/31/2016	National Marine Fisheries Service (NMFS)	2016 Incident Harassment Authorization Schedule Update	2
4/1/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Crack Arrestor and Mainline Block Valve Special Permit analysis and Strain-Based Design Change Process	11
4/4/2016	Alaska Department of Natural Resources (ADNR) North Slope Gas Commercialization Permitting Coordination Team	State Pipeline Coordinator Section (SPCS) Reimbursable Services Agreement and Project Update	8
4/8/2016	ADNR, Division of Mining, Land, and Water Resources Alaska Department of Environmental Conservation (ADEC) Alaska Department of Natural Resources (ADNR)	2016 Nikiski Aquifer Pump Test Pre-Application	2
4/8/2016	BLM Central Yukon Field Office Alaska State Office Bureau of Land Management (BLM)	BLM Plan of Development (POD) Pre-Application Workshop	8
4/14/2016	Federal Energy Regulatory Commission (FERC)	Project Review	All
4/14/2016	Federal Energy Regulatory Commission (FERC) United States Army Corps of Engineers (USACE)	Wetlands, Plans and Procedures, Traditional Knowledge, Permits	2, 5, 7
4/14/2016	Alaska Department of Transportation and Public Facilities (ADOT&PF) Alaska Gasline Development Corporation (AGDC) Federal Energy Regulatory Commission (FERC) United States Army Corps of Engineers (USACE) United States Department of the Interior (USDOI) United States National Park Service, Alaska Regional Office	Pipeline Routing through Denali National Park and Reserve	All Reports
4/14/2016	Bureau of Land Management (BLM)	Project Area Revision for Land Status Review	8
4/15/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Crack Arrestor and Mainline Block Valve Spacing	11
4/19/2016	Alaska Department of Natural Resources (ADNR) Federal Energy Regulatory Commission (FERC) North Slope Gas Commercialization Permitting Coordination Team US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	PHMSA Pipeline Special Permit and Environmental Overview	11
4/26/2016	BLM, Alaska State Office Bureau of Land Management (BLM)	Project Regulatory Agency GIS Capability/Functionality	1



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4/26/2016	Alaska Department of Environmental Conservation (ADEC) Alaska Department of Natural Resources (ADNR) Federal Energy Regulatory Commission (FERC) United States Environmental Protection Agency (EPA)	Air Quality Modeling Protocols Discussion	9
4/27/2016	United States Fish and Wildlife Service (USFWS)	Bald and Golden Eagle Protection Act Permitting Requirements	3
4/27/2016	Alaska Department of Environmental Conservation (ADEC) ADEC, Division of Water Wastewater Discharge Authorization Programs Alaska Department of Natural Resources (ADNR)	ADEC Statewide Oil and Gas Pipeline General Permit	2
4/30/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Pipeline Coating	11
5/2/2016	Alaska Gasline Development Corporation United States Department of the Interior (USDOI) United States National Park Service, Alaska Regional Office	Denali National Park and Preserve Alternative with NPS and ADOT&PF	1, 10
5/9/2016	West Dock Users Group	Summer Field Work	2
5/17/2016	ADEC, Division of Air Quality Non-Point and Mobile Sources Program	ADEC Air Quality Conformity	9
5/18/2016	Alaska Department of Environmental Conservation (ADEC) Federal Energy Regulatory Commission (FERC)	Discuss Best Available Control Technology and Dispersion Modeling	9
5/19/2016	ADEC Air Permits Program Alaska Department of Environmental Conservation (ADEC)	Air Monitoring Plans	9
5/26/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Multi-Layer Coatings Special Permit and Environmental Information	11
5/26/2016	National Marine Fisheries Service (NMFS)	NMFS Questions on Vibracoring	7
5/26/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Crack Arrestor and Mainline Block Valve Spacing, Coating	11
5/27/2016	National Marine Fisheries Service (NMFS) United States Army Corps of Engineers (USACE)	Vibracoring Operations and Incidental Harassment Authorization (IHA)	7
5/27/2016	National Park Service (NPS)	Denali National Park geohazards	6
6/3/2016	United States Army Corps of Engineers (USACE)	Restoration Planning Group	11
6/5/2016	State Fire Marshal	Project Overview	All Reports

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Correspondence Date	External Group/Agency	Topic	Applicable Resource Report
6/6/2016	Federal Energy Regulatory Commission (FERC)	Transportation Conformity with Fairbanks Metropolitan Area Transportation and FERC	9
6/6/2016	Alaska Department of Environmental Conservation (ADEC) ADEC Air Permits Program Alaska Department of Natural Resources (ADNR)	Recommendations for General Construction Projects Near Public Water Systems	9
6/8/2016	Alaska Department of Transportation and Public Facilities (ADOT&PF)	ADOT&PF Commissioner, Project Update	All Reports
6/13/2016	Alyeska Pipeline Service Company BLM, Alaska State Office Bureau of Land Management (BLM) United States Bureau of Land Management Office of Pipeline Monitoring (JPO)	Alaska LNG and TAPS joint engineering study	11
6/20/2016	United States Army Corps of Engineers (USACE) United States Environmental Protection Agency (EPA)	West Dock Sampling Program Summer Work	1, 2
6/28/2016	Alaska Gasline Development Corporation (AGDC) FERC, Division of Gas – Environment and Engineering Office of Energy Projects Federal Energy Regulatory Commission (FERC) Pipeline and Hazardous Materials Safety Administration (PHMSA)	Liquefaction Facility Pipe-in-Pipe and Concrete Tank Technology	11,13
6/28/2016	U.S. Coast Guard (USCG)	Letter of Recommendation for Waterway Suitability Assessment	2
6/30/2016	National Park Service (NPS) U.S. Fish and Wildlife Service (USFWS)	AQRV Analysis for Gas Treatment Plant and Liquefaction Facility	8,9
6/30/2016	National Marine Fisheries Service (NMFS)	2016–2017 Incidental Harassment Authorization Status Update; Determine NMFS Status for Issuing Incidental Harassment Authorization	3
7/11/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	PHMSA Pipeline Mainline Block Valve and Crack Arrestor Spacing Special Permits and Trans-Alaska Pipeline System (TAPS) Thermal Radiation Evaluation	11
7/14/2016	Federal Energy Regulatory Commission (FERC)	Uplands Plan and Wetland/Waterbody Procedures	1, 7, 10

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7/21/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	PHMSA Liquefaction Facility Meeting – Teleconference Regarding Data Requirements for PHMSA's Pipe-in-Place Analysis	11,13
7/26/2016	U.S. Army Corps of Engineers (USACE) Alaska Department of Natural Resources (ADNR) U.S. Environmental Protection Agency (EPA)	Overview Revised Sampling Analysis with agencies	9
8/3/2016	National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Office of Protected Resources	Cook Inlet Incidental Take Regulations Pre-Application Meeting	3
8/9/2016	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Transportation Infrastructure and Resource Report Overview	All Reports
8/10/2016	Alaska Department of Labor and Workforce Development (ADLWD)	Resource Reports and Labor Studies	All Reports
8/10/2016	Alaska Department of Environmental Conservation (ADEC)	Water Discharge Plan	2
8/15/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	PHMSA Pipeline Special Permits Filing	1
8/16/2016	Alaska Department of Natural Resources (ADNR)	Compensatory Mitigation Strategies	2
8/17/2016	National Marine Fisheries Service (NMFS)	Draft 2 Biological Assessment	3
8/19/2016	Alaska Department of Transportation and Public Facilities (ADOT&PF)	Mainline Revision C	1
8/22/2016	United States Fish and Wildlife Service (USFWS)	Draft 2 Biological Assessment	3
8/22/2016	Federal Energy Regulatory Commission (FERC)	Alaska Agencies Resource Reports Review Workshop in Fairbanks	All Reports
8/23/2016	Federal Energy Regulatory Commission (FERC)	Geotechnical Data Technical Review	6
8/24/2016	National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Office of Protected Resources National Marine Fisheries Service (NMFS)	Construction and Execution of Cook Inlet Pipeline in the Susitna Delta Exclusion Zone	3
8/25/2016	Federal Energy Regulatory Commission (FERC)	Alaska Agencies Resource Reports Review Workshop	
8/26/2016	Bureau of Land Management (BLM), Alaska State Office	Resource Reports, Right-of-Way Grant Application, Reimbursable Agreement	1, 3, 8
8/29/2016	United States Army Corps of Engineers (USACE)	Project Overview, Document Review Update, and Permitting	2, 3

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9/1/2016	Alaska Department of Natural Resources (ADNR)	Section 106 and Mitigating Adverse Effects to NRHP-Eligible Sites	4
9/15/2016	National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Office of Protected Resources	Acoustic Modeling Methodologies	3
9/23/2016	United States Army Corps of Engineers (USACE)	Kenai Spur Highway Wetlands	1, 2
9/29/2016	Alaska Gasline Development Corporation (AGDC) Alaska Department of Transportation and Public Facilities (ADOT&PF)	Kenai Spur Highway Right-of -Way	1, 8
12/16/2016	Pipeline and Hazardous Materials Safety Administration (PHMSA)	Year End Update	1, 11

See Agency Engagement documentation in Attachment 2

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TABLE 3 Other Interested Stakeholder Engagements			
Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
5/14/2013	Alyeska Pipeline Service Company (APSC)	Project Introduction	All
6/5/2013	Alyeska Pipeline Service Company (APSC)	Delivery and Review of Access Request Forms	All
8/15/2013	Alaska State Legislators	Field Trip to View 2013 Summer Field Season Studies	All
9/19/2013	Kenai LNG Plant	Meeting with Facility Superintendent and Tour	All
10/14/2013	Cook Inlet Citizens Advisory Council (CICAC)	Nikiski Lead Site Location Announcement	All
10/14/2013	Kenai Peninsula College	Nikiski Lead Site Location Announcement	All
10/24/2013	Nikiski Community Council	Nikiski Lead Site Location Announcement	All
10/28/2013	Nikiski Community Council	Project Presentation	All
11/13/2013	Alaska Gasline Development Corporation (AGDC)	Discussion Regarding Alaska LNG's and AGDC's Environmental GIS Data	1, 2, 3, 4, 8, 10
1/21/2013	Alyeska Pipeline Service Company (APSC)	Discussion Regarding Crossing Requirements for the Trans-Alaska Pipeline System (TAPS)	11, 13
11/25/2013	City of Kenai	Project Presentation and Q&A Session	All
12/6/2013	Cook Inlet Region Citizens Advisory Council (CIRCAC)	Project Presentation and Q&A Session	All
1/17/2014	Tyonek Native Corporation (TNC)	Project Presentation and Q&A Session for the TNC Leadership	All
1/21/2014	Southwest Alaska Pilots Association (SWAPA)	Discussion Regarding Navigation in the Cook Inlet	5, 11
1/21/2014	GCI	Discussion Regarding Installation and Operation of a Natural Gas Pipeline in Relation to Fiber Optic Cables in Upper Cook Inlet	8, 11, 13
1/22/2014	Alyeska Pipeline Service Co (APSC)	Discussion Regarding Construction and Operation in Relation to the Existing Trans-Alaska Pipeline System (TAPS) and Review of Proximity Criteria	1, 10, 11, 13
1/29/2014	Kenai Chamber of Commerce (KCC)	Project Presentation and Q&A Session	All
2/12/2014	Alaska Gasline Development Corporation (AGDC)	ASAP and Alaska LNG Environmental GIS Data Review	1, 2, 3, 4, 8, 10
2/13/2014	Alaska Gasline Development Corporation (AGDC)	NEPA Discussion	All
2/28/2014	Alaska Railroad Corporation (ARRC)	Introduce ARRC to the Project	All
3/3/2014	Seattle Chamber of Commerce (SCC)	Project Presentation and Q&A session	All

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3/3/2014	Chugach Electric Association	Discussion Regarding Potential Crossing of Tidal Lease and Availability of Power	8, 10, 13
3/6/2014	Susitna-Watana Hydro Project	Discussion Regarding Publicly Available Environmental Information for the Susitna Drainage	2, 5, 8, 10
4/8/2014	Alaska Railroad Corporation (ARRC)	Site Visits to Seward and Whittier Ports Managed by ARRC	All
4/10/2014	Alaska Gasline Development Corporation (AGDC)	AGDC ASAP Project and Alaska LNG Project 2014 Survey Comparison	1, 2, 3, 4, 8, 10
4/22/2014	Alaska Gasline Development Corporation (AGDC)	AGDC ASAP Project and Alaska LNG Project 2014 Cultural Survey Comparison	1, 2, 3, 4, 8, 10
5/2014	Valdez City Council	Project Presentation and Q&A Session	All
5/7/2014	City of Seward	Project Presentation and Q&A Session	All
5/12/2014	Salamatof Native Association	Project Presentation and Q&A Session	All
5/12/2014	Nikiski Community Council	Project Presentation and Q&A Session	All
5/14/2014	Denali Borough Assembly	Project Presentation and Q&A Session	All
5/15/2014	Alaska Gasline Development Corporation (AGDC)	Socioeconomic Team Meeting with AGDC and Community Advisory Council to Coordinate Public Engagement Activities	All
5/15/2014	McKinley Park Village	Project-Led Open House	All
5/19/2014	Allakaket Tribal Council (ATC) Allakaket Community Council (ACC)	Presentation for Allakaket Joint Leadership	All
5/19/2014	Alatna and Allakaket Communities	Project-Led Open House	All
5/21/2014	Anderson and Clear Communities	Project-Led Open House	All
5/22/2014	Nenana Community	Project-Led Open House	All
5/28/2014	Houston and Big Lake Communities	Project-Led Open House	All
5/28/2014	Senator Lisa Murkowski	Project Update	All
5/28/2014	Alaska Native Corporation CEOs	Project Presentation and Q&A Session	All
5/29/2014	Trapper Creek Community	Project-Led Open House	All

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Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
6/2/2014	Talkeetna Community Council (TCC)	Project Presentation and Q&A Session	All
6/3/2014	Talkeetna Community	Project-Led Open House	All
6/4/2014	Willow Community	Project-Led Open House	All
6/5/2014	Wasilla Community	Project-Led Open House	All
6/5/2014	Wiseman Community	Project-Led Open House	All
6/12/2014	Healy Community	Project-Led Open House	All
6/13/2014	Knik Tribal Council (KTC)	Project Presentation and Q&A Session	All
6/20/2014	Ninilchik Traditional Council (NTC)	Project Presentation and Q&A Session	All
6/21/2014	Nikiski Fun in the Sun Fair/Solstice	Project Booth for Public Event	All
6/24/2014	Eklutna, Inc.	Project Presentation and Q&A Session	All
6/28/2014	United Cook Inlet Drift Association (UCIDA)	Project Presentation and Q&A Session	All
7/8/2014	Cantwell Community	Project-Led Open House	All
7/14/2014	Alaska State Legislators	Field Trip to View 2014 Summer Field Season Studies	All
7/15/2014	Anchorage Community	Project-Led Open House	All
7/17/2014	Fairbanks Community	Project-Led Open House	All
8/9/2014	Tanana Valley State Fair	Project Booth for Public Event	All
8/16/2014	Kenai Peninsula State Fair	Project Booth for Public Event	All
8/21/2014	Alaska State Fair	Project Booth for Public Event	All
8/21/2014	Trapper Creek Community Council	Project Presentation and Q&A Session	All
8/22/2014	Tikahtnu Forum	Project Presentation and Q&A Session	All
8/23/2014	Kenai Peninsula Industry Appreciation Day	Project Booth for Public Event	All
9/8/2014	Alaska Oil & Gas Conservation Committee (AOGCC)	Project Presentation	All
9/10/2014	Alaska Federation of Natives (AFN) Representatives	Project Presentation and Q&A Session	All
9/16/2014	Cook Inlet Tribal Council (CITC)	Project Presentation and Q&A Session	All
9/24/2014	City of Soldotna	Project Presentation and Q&A Session	All

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Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
9/24/2014	Kenaitze Indian Tribe	Project Presentation and Q&A Session	All
9/24/2014	Native Village of Barrow Inupiat Traditional Government	Project Presentation and Q&A Session	All
9/24/2014	North Slope Borough Staff	Project Presentation and Q&A Session	All
9/25/2014	Ukpeagvik Inupiat Corporation	Project Presentation and Q&A Session	All
9/25/2014	Barrow Community	Project-Led Open House	All
9/29/2014	Joint State of Alaska Senate/House Resource Committee	Project Presentation and Q&A Session	All
9/30/2014	Ahtna	Project Presentation and Q&A Session	All
10/1/2014	Minto Community	Project-Led Open House	All
10/6/2014	Big Lake Chamber of Commerce	Project-Led Open House	All
10/9/2014	Kenai Community	Community Meeting	All
10/9/2014	Various Media Outlets	Project Update and Tour of Field Study Activities in the Kenai Area	All
10/9/2014	Kenai Peninsula Community College (KPCC)	Project Presentation and Q&A Session	All
10/17/2014	Alliance – Fairbanks Forum	Project Presentation	All
10/28/2014	Nikiski, Kenai, and Soldotna Communities	Project-Led Open House	All
10/29/2014	Tyonek Community	Project-Led Open House	All
10/30/2014	Anchorage Community	Project-Led Open House	All
10/31/2014	Southwest Alaska Pilots Association (SWAPA)	Discussion Regarding Local Marine Traffic Concerns and the Waterway Suitability Assessment (WSA) Process	1, 11
11/2/2014	Nikiski Community Council (NCC)	Project Presentation and Q&A Session	All
11/5/2014	Mechanical Contractors of Fairbanks	Project Presentation and Q&A Session	All
11/5/2014	Nenana and Anderson Communities	Project-Led Open House	All
11/6/2014	Healy, Cantwell, and McKinley Park Village Communities	Project-Led Open House	All
11/10/2014	Minto Community	Project-Led Open House	All
11/12/2014	Fairbanks and North Pole Communities	Project-Led Open House	All
11/12/2014	Barrow Community	Project-Led Open House	All



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TABLE 3 Other Interested Stakeholder Engagements			
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11/12/2014	Alaska Process Industry Careers Consortium (APICC)	Project Presentation and Q&A Session	All
11/12/2014	Cook Inlet Harbor Safety Committee	Discussion Regarding the Waterway Suitability Assessment (WSA) Process	11
11/13/14	Southwest Alaska Pilots Association (SWAPA)	Discussion Regarding Local Marine Traffic Concerns and the Waterway Suitability Assessment (WSA) Process	1, 11
11/18/2014	Trapper Creek and Wasilla Communities	Project-Led Open House	All
11/19/2014	Wasilla and Palmer Communities	Project-Led Open House	All
11/20/2014	Houston, Big Lake, and Willow Communities	Project-Led Open House	All
11/20/2014	Resource Development Council (RDC)	Project Presentation and Q&A Session	All
12/8/2014	Law Seminars International Anchorage Conference	Project Presentation and Q&A Session	All
1/13/2015	Nuiqsut Community	Project-Led Open House	All
1/14/2015	Kaktovik Community	Project-Led Open House	All
1/29/2015	Anaktuvuk Pass Community	Project-Led Open House	All
1/31/2015	Native Village of Eklutna	Project Overview	All
2/25/2015	Cook Inlet Regional Citizens Advisory Council (CIRCAC)	Project Update	All
2/26/2015	Bering Straits Native Corporation	Project Update	All
3/3/2015	Alaska Railroad Corporation	Alaska Railroad Infrastructure and Route Study	1
4/1/2015	Chikaloon Native Village, Division of Mining Land and Water Matanuska-Susitna Borough Port Graham Tribal Council Port Mackenzie Port of Anchorage Southwest Alaska Pilots Association (SWAPA) U.S. Coast Guard (USCG)	Waterway Suitability Assessment (WSA) Information Meeting – Stakeholder Representatives	11
4/3/2015	Ninilchik Traditional Council	Project Update	All
4/10/2015	Native Village of Tyonek Tyonek Native Corporation	Project Overview	All

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Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
4/13/2015	Kenai Peninsula Economic Development District	Project Overview	All
4/15/2015	Kenai Chamber of Commerce Soldotna Chamber of Commerce	Project Update	All
4/17/2015	Kenaitze Indian Tribe	Project Update	All
4/22/2015	City of Soldotna	Project Update	All
4/23/2015	Salamatof Native Association Leadership	Project Update	All
4/23/2015	Nikiski Community	Project-Led Open House	All
5/1/2015	Barrow Community Members	Pre-FEED Supply Chain Meet and Greet	All
5/5/2015	Cantwell Community	Project-Led Open House	All
5/5/2015	Salamatof Native Association Inc.	Subsistence Discussion for Cook Inlet Geotechnical and Geophysical Incidental Harassment Authorization	5, 6
5/6/2015	McKinley Village	Project-Led Open House	All
5/7/2015	Healy Community	Project-Led Open House	All
5/8/2015	Kenai Peninsula Foundation	Project Update	All
5/11/2015	Nikiski Community Council Kenai Peninsula Borough	Project Introduction to Community Meeting/Workshop	All
5/12/2015	Alaska Department of Labor and Workforce Development (ADLWD)	Labor Study Engagement Plan	All
5/13/2015	Anderson Community	Project-Led Open House	All
5/13/2015	Chugach Region Inc.	Project Update	All
5/13/2015	Cook Inlet Region Incorporated (CIRI)	Project Update	All
5/13/2015	Doyon Limited	Project Update	All
5/13/2015	NANA Corporation	Project Update	All
5/14/2015	Nenana Community	Project-Led Open House	All
5/15/2015	Tyonek Native Corporation	Discussed Proposed Tyonek Lands	9
5/20/2015	Wiseman Community	Project-Led Open House	All
5/21/2015	Alaska Association Of Environmental Professionals	Project Update	All

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5/21/2015	Native Village Of Tyonek	Project-Led Open House	All
5/22/2015	Kenaitze Indian Tribe	Subsistence Discussion for Cook Inlet Geotechnical and Geophysical Incidental Harassment Authorization	3, 5, 6
5/26/2015	Salamatof Native Association Inc.	Subsistence Discussion for Cook Inlet Geotechnical and Geophysical Incidental Harassment Authorization	3, 5, 6
5/28/2015	Minto Village Council	Project-Led Open House	All
5/31/2015	Kenai Peninsula Fisherman's Association	Project Update	All
6/1/2015	Talkeetna Community	Project-Led Open House	All
6/2/2015	Trapper Creek Community	Project-Led Open House	All
6/3/2015	Wasilla-Palmer Community	Project-Led Open House	All
6/4/2015	Houston-Big Lake Community	Project-Led Open House	All
6/10/2015	Matanuska-Susitna Business Alliance	Project Update	All
6/10/2015	Matanuska-Susitna Borough	Project Update	All
6/11/2015	Anchorage community	Project-Led Open House	All
6/11/2015	Alaska Federation of Natives (AFN)	Project Update	All
6/11/2015	Ahtna Inc.	Project Update	All
6/11/2015	Chugach Region Inc.	Project Update	All
6/11/2015	Cook Inlet Region Incorporated (CIRI)	Project Update	All
6/11/2015	Doyon Limited	Project Update	All
6/15/2015	Kenai Rotary Club	Project Update	All
6/16/2015	Alaska State Legislature	Tour of Nikiski Field Work and Public Hearing	All
6/27/2015	United Cook Inlet Drift Association (UCIDA)	Project Update	All
6/30/2015	Kenai Peninsula Borough (KPB) Soldotna Chamber of Commerce	Project Update	All
7/1/2015	Rocky Mountain Mineral Law Institute	Project Update	All
7/9/2015	Barrow community	Project-Led Open House	All

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7/14/2015	Native Village of Nuiqsut	Project-Led Open House	All
7/16/2015	Rocky Mountain Mineral Law Institute	Project Update	All
7/22/2015	Alaska LNG Project Doyon Limited	Natural Gas Tie-In Opportunities	All
7/25/2015	Soldotna Chamber of Commerce	Soldotna Progress Day Fair	All
7/28/2015	Ahtna Construction Ahtna Inc.	Alaska LNG Contracting	All
7/28/2015	Tyonek Alaska Group Tyonek Construction Group Tyonek Manufacturing Group Tyonek Native Corporation	Discuss Alaska LNG Evolving Procurement Approach/Strategy	All
7/30/2015	Central Peninsula Hospital	Project Update	All
7/31/2015	Copper River Native Association	Project Overview	1
7/31/2015	Eklutna, Inc.	Project Update	All
8/18/2015	Tanana Chiefs Conference (TCC)	Project Update	All
8/19/2015	Peninsula Community Health Services (PCHS)	Alaska LNG Project Presentation	All
8/19/2015	Alaska Department of Labor and Workforce Development (ADLWD)	Meeting/ Workshop; Labor Study Update	5
8/19/2015	Alaska Oil and Gas Association (AOGA) Kenai Chamber of Commerce Soldotna Chamber of Commerce	Alaska LNG Project Presentation	All
8/25/2015	Doyon Limited	Project Update	All
8/27/2015	State of Alaska	Alaska State Fair – Energy Day	All
8/29/2015	Kenai Community	Alaska LNG Booth at Industry Appreciation Day In Kenai	All
9/2/2015	Ahtna Inc.	Meeting with Ahtna Inc. on Communications	All
9/7/2015	Alaska State Legislature Nikiski Community Council	Project Update	All
9/9/2015	Joint House and Senate Resources Committee	Alaska LNG Project Legislative Update	All

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Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
9/10/2015	Bering Sea Alliance	Project Update	All
9/16/2015	Alaska Chapter of American Society of Drilling Engineers	Project Presentation	All
9/18/2015	The Alaska Support Industry Alliance	Project Presentation	All
9/22/2015	Ahtna	Review Pipeline Route and Contracting Strategy	8
9/22/2015	Village of Anaktuvuk Pass	Project-Led Open House	All
9/24/2015	Kenai Chamber of Commerce Kenai Peninsula Economic Development District Soldotna Chamber of Commerce	Project Update on Contracting/Business	All
9/29/2015	Fairbanks Community	Project-Led Open House	All
9/28/2015 – 9/30/2015	Arctic Energy Summit Conference	Project Presentation	All
10/1/2015	Kenai Peninsula Borough (KPB)	Project Update	All
10/3/2015	Ahtna Inc.	Project Overview	All
10/5/2015	Nikiski Community Council	Project Update	All
10/7/2015	Kenai Chamber of Commerce Soldotna Chamber of Commerce	Project Update	All
10/7/2015	Kaktovik community	Project-Led Open House	All
10/15/2015	Alaska Federation of Natives Conference (AFN) Delegation	Project Presentation	All
10/15/2015 – 10/17/2015	Alaska Federation of Natives Conference (AFN) Delegation	Project Booth at Alaska Federation of Natives Conference (AFN)	All
10/19/2015	Kenai Peninsula Borough (KPB)	Kenai Spur Highway Relocation Open House	1, 5, 8
10/20/2015	Alaska Gasline Development Corporation (AGDC) Mat-Su Assembly	Project Presentation	All
10/27/2015	Federal Energy Regulatory Commission (FERC) Alaska Department of Natural Resources (ADNR) Community of Kaktovik	FERC Public Scoping Meeting	All
10/27/2015	Federal Energy Regulatory Commission (FERC)	FERC Public Scoping Meeting	All

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	Alaska Department of Natural Resources (ADNR) Nikiski Community Kenai Peninsula Borough (KPB)		
10/28/2015	Alaska Department of Labor and Workforce Development (ADLWD) Alaska Joint Electrical Apprenticeship & Training Trust Alaska Teamsters Training Trust Arctic Slope Regional Corporation (ASRC) Doyon Associated, LLC Fairbanks Plumbers and Pipefitters Training School Iliisaqvik College	Alaska Department of Labor Gas Line Workforce Development workshop	All
10/28/2015	Barrow Community Federal Energy Regulatory Commission (FERC)	FERC Public Scoping Meeting	All
10/28/2015	Houston Community Federal Energy Regulatory Commission (FERC) Matanuska-Susitna Borough Port Mackenzie Bureau of Land Management (BLM) Alaska Department of Natural Resources, Commissioners Office (ADNR) Alaska Department of Natural Resources, State Pipeline Coordinators Section (SPCS) United States Army Corps of Engineers (USACE)	FERC Public Scoping Meeting	All
10/29/2015	Homer Rotary Club	Project Overview	All
10/29/2015	City of Homer Cook Inletkeeper KBBI Radio Homer Rotary Club	Project Presentation	All
10/29/2015	Nuiqsut Community Alaska Department of Natural Resources (ADNR) Nuiqsut Whaling Captains Association Federal Energy Regulatory Commission (FERC)	FERC Public Scoping Meeting	All
10/29/2015	Trapper Creek	FERC Public Scoping Meeting	All

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TABLE 3 Other Interested Stakeholder Engagements			
Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
	Federal Energy Regulatory Commission (FERC) United States Army Corps of Engineers (USACE) United States Environmental Protection Agency (EPA) Alaska Department of Natural Resources, Commissioners Office (ADNR)		
11/2/2015	Kenai Peninsula Borough (KPB) Nikiski Community Council	Monthly Meeting	All
11/3/2015	Fairbanks North Star Borough	Project update – Introduction	All
11/4/2015	Kenai Chamber of Commerce Kenai Peninsula Borough (KPB)	KPB Mayor Navarre Addressed the Kenai Chamber of Commerce at Luncheon	All
11/4/2015	University of Alaska Fairbanks	Project Introduction	All
11/4/2015	Alaska LNG Project House of Representatives Minto Development Corporation Minto Village Corporation Seth de ya ah Native Village of Minto Native Village of Nenana Toghotthele Corporation Tolovana Construction Company Inc.	Project Overview and Update	All
11/13/2015	Alaska LNG Project	Project Update to Associated General Contractors of Alaska	All
11/14/2015	Alaska State Legislature Kenai Peninsula Borough (KPB)	Fundraising Gala for the Boys & Girls Clubs of the Kenai Peninsula	5
11/14/2015	United Cook Inlet Drift Association (UCIDA)	Conversation with United Cook Inlet Drift Association (UCIDA) Leadership	All
11/17/2015	Alaska Department of Fish and Game (ADF&G) Denali Borough Denali Borough Assembly Federal Energy Regulatory Commission (FERC)	FERC Public Scoping Meeting – Healy	All
11/18/2015	ADNR, State Pipeline Coordinator's Section	FERC Public Scoping Meeting – Tyonek	All

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TABLE 3 Other Interested Stakeholder Engagements			
Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
	FERC, Division of Gas – Environment and Engineering Office of Energy Projects Federal Energy Regulatory Commission (FERC) Kenai Peninsula Borough (KPB) State of Alaska Tyonek Native Corporation		
11/18/2015	ADNR, Commissioner's Office Alaska Department of Fish and Game (ADF&G) Federal Energy Regulatory Commission (FERC) North Slope Gas Commercialization Permitting Coordination Team Nenana Community	FERC Public Scoping Meeting – Nenana	All
11/19/2015	Alaska Department of Natural Resources (ADNR) Bureau of Land Management (BLM) Fairbanks Economic Development Corporation Fairbanks North Star Borough Fairbanks Sand and Gravel Federal Energy Regulatory Commission (FERC) Greater Fairbanks Chamber of Commerce North Slope Gas Commercialization Permitting Coordination Team Stevens Village Native Council Tower Hill Mines U.S. Fish and Wildlife Service (USFWS)	FERC Public Scoping Meeting – Fairbanks	All
11/19/2015	ASRC Construction Holding Alaska Gas Line Port Authority Alaska State Legislature Denali Citizens Council Ecology & Environment Federal Energy Regulatory Commission (FERC) Little Susitna Construction Company, Inc. Resource Development Council of Alaska	FERC Public Scoping Meeting – Anchorage	All



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TABLE 3 Other Interested Stakeholder Engagements			
Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
11/19/2015	Alaska LNG Project	Presentation at Resource Development Council Annual Conference	All
11/20/2015	University of Alaska Fairbanks	Project Overview to University of Alaska Fairbanks Student Section of the American Association of Drilling Engineers	All
12/5/2015	Cook Inletkeeper Renewable Energy Alaska Project	Project Overview at Cook Inletkeeper Board Meeting	All
12/7/2015	Alaska State Legislature Nikiski Community Council (NCC)	Update NCC on Alaska LNG Project – FERC Scoping Meetings, Upcoming Meetings, Safety Around LNG Plant, Water Quality	All
12/10/2015	Kenai Watershed Forum	Kenai Peninsula Water Resource Specialists and Studies	2
12/17/2015	Nikiski High School Nikiski/Northstar Elementary School	Deliver Donation Checks to Nikiski North Star Elementary and Nikiski Middle/High School	All
12/18/2015	Alaska State Legislature	Senator Peter Micciche Gives Update on Oil and Gas Tax Credits and Alaska LNG Project	All
12/23/2015	Kenai Chamber of Commerce Municipality of Anchorage Soldotna Chamber of Commerce	U.S. Senator Dan Sullivan presenting	All
2/3/2016	Knik Tribal Council Cook Inlet Tribal Council	Meeting with Representatives	All
2/8/2016	Kenai Business Leadership	Alaska LNG Project Business Opportunities	All
2/9/2016	Alaska Professional Design Council	Project Overview	All
2/9/2016	ANSCA CEO Briefing	Project Briefing to ANSCA Members	All
2/10/2016	Alaska Forum on the Environment	Project Update 2016	All
2/15/2016	Nikiski Community Council Kenai Peninsula Borough	Project Update	All
2/20/2016	Kenai Community	Coffee with Alaska LNG	All
3/8/2016	Beluga	Stakeholder Engagement Outreach	All
3/8/2016	Tyonek Native Corporation	Community Meeting	All

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TABLE 3 Other Interested Stakeholder Engagements			
Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
	Tebughna Foundation Kenai Peninsula Borough		
3/10/2016	Baan O Yeel Kon Corporation	Project Overview	All
3/10/2016	Seth-De-Ya-Ah Corporation	Project Overview	All
03/11/2016	Dinyea Corporation	Project Overview	All
03/11/2016	Koyitlostina Limited	Allakaket Leadership Meeting	All
03/11/2016	Minto Village Council Seth-De-Ya-Ah Corporation Toghotthele Corporation Koyitlostina Limited Allakaket Tribal Council Fairbanks Native Association	Sub-Regional Project Update	All
3/14/2016	Nikiski Council	Project Update	All
3/15/2016	Ahtna	Land Access and Material Site Evaluation	All
3/15/2016	Allakaket Village Council	Project Presentation	All
3/26/2016	Nikiski Community Meeting	Project Development Update	All
3/29/2016	Alaska State Troopers	Mobilization of Field Program, Property Abatement & Demo; Geotechnical and Geophysical Field Program	All
3/31/2016	Nikiski Community Council	Communicate Mobilization of Marine Activities	All
3/31/2016	United Cook Inlet Drift Association	Communicate Mobilization of 2016 Marine Activities	All
5/1/2016	North Slope Borough	Project Overview	All
5/1/2016	Northern District Setnetters	Project Overview and Update	All
5/6/2016	Seward Chamber of Commerce	Project Overview	All
5/9/2016	Nikiski Council	Project Update	All
5/11/2016	Chickaloon Community Council	Project Overview	All
5/12/2016	University of Alaska Fairbanks	Project Update	All
5/19/2016	Kenaitze Indian Tribe	Project Update on Summer Field Activities, Workforce	All

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TABLE 3 Other Interested Stakeholder Engagements			
Correspondence Date	External Group/Agency	Meeting Objectives	Applicable Resource Report
		Development and IHA	
6/6/2016	Talkeetna Community Meeting	Project Overview	All
6/12/2016	Kenai Peninsula Borough Assembly	Aquifer Pump Testing	All
6/18/2016	Nikiski Community	Project Booth at Family Fun Days	All
6/25/2016	United Cook Inlet Drift Association	Project Update	All
6/28/2016	Minto Community	Project Update	All
7/6/2016	Kenai Soldotna Joint Chamber	Project Attended	All
7/14/2016	Evansville Tribal Council City of Bettles	Project Overview	All
8/15/2016	Nikiski Community	Coffee with Alaska LNG Project	All
8/22/2016	Alaska Department of Labor and Workforce Development	Tour of the Alaska Department of Labor and Workforce Development Commissioner	All
8/23/2016	Allakaket Tribal Council Alatna Tribal Council	Project Overview	All
8/23/2016	City of Houston	Project Update	All
8/23/2016	Denali Borough	FERC Scoping Meeting	All
8/26/2016	Tikhatnu Forum	Project Update	All
9/27/2016	Alaska Gas Development Corporation (AGDC) Cantwell	Project Update	All
9/28/2016	Alaska Gas Development Corporation (AGDC) Healy, Ferry, and McKinley Park Village	Project Update	All
10/3/2016	Alaska Gas Development Corporation (AGDC) Nikiski Community Council	Project Update	All
10/20-22/2016	Alaska Federation of Natives	Booth and project update	All

See Stakeholder Engagement documentation in Attachment 3

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## ATTACHMENT D.1    EXTERNAL CORRESPONDENCE DOCUMENTATION

Alaska Department of Environmental  
Conservation

ADEC

**ExxonMobil Development Company**  
 16945 Northchase Drive, DEV-GP4-498  
 Houston, Texas 77060  
 832-624-2816  
 281-654-3212 Fax

**Charlie Kominas**  
 Alaska LNG Project  
 Environmental, Regulatory and Land Manager



February 25, 2014

Ms. Elizabeth Nakanishi  
 ADEC Air Monitoring Program  
 619 E. Ship Creek Avenue, Suite 249  
 Anchorage, AK 99501

**Subject: Meteorological and Ambient Air Monitoring Program Site Approval Request, Nikiski**

Dear Ms. Nakanishi:

BP, ConocoPhillips, ExxonMobil and TransCanada are currently working together to progress an Alaska LNG project and are developing a multi-year data gathering strategy in order to obtain meteorological and ambient air quality information near the Nikiski industrial area. This prevention of significant deterioration (PSD) quality data collection effort will play a critical role in LNG liquefaction facility siting and design.

The Alaska LNG project requests ADEC concurrence on siting approval for a meteorological tower site as well as an ambient air monitoring station site in Nikiski, Alaska. As confirmed with ADEC Air Monitoring Program staff in a meeting on February 18<sup>th</sup>, the Alaska LNG project requests ADEC site approval on or before March 15<sup>th</sup>. The locations described herein are proposed. If parcel locations change significantly from those proposed in this letter, the project will submit an amended site approval request. Final locations will be provided to ADEC.

**Meteorological Tower Site Approval**

The Alaska LNG project proposes to install a 60 meter meteorological tower with a proposed location identified in Figure 1 (See Appendix A). The project proposes to collect the following meteorological data at this location:

- Horizontal wind speed at 10, 30, and 60 meters
- Vertical wind speed at 30 meters
- Wind direction at 10, 30, and 60 meters
- Temperature at 2, 10, 30, and 60 meters
- Solar Radiation at 2 meters
- Sigma A at 10, 30, and 60 meters
- Sigma W at 30 meters

In identifying the proposed meteorological tower location, the Alaska LNG Team applied guidance provided in the February 2000 EPA publication Meteorological Monitoring Guidance for Regulatory Modeling Applications (EPA-454/R-99-005) with efforts made to maximize representativeness, including the following factors:

- Proximity of the meteorological site to the area of interest for the Alaska LNG project
- Consideration of distance between potential sources and receptors
- Consideration of atmospheric dispersion potential
- Placement of equipment at representative heights, focusing on boundary layer profiling and three dimensional meteorological fields
- Evaluation of terrain effects on meteorological conditions

Terrain relief in Nikiski is minimal, and the project team anticipates that terrain effects on meteorological measurements at the proposed site will be non-significant. While terrain heights are below potential stack-tops, there are vertical obstructions in the vicinity. Figure 2 shows the proposed tower location in relation to nearby obstructions, with polygons indicating estimated 10:1 stand-off distances. Based on an estimated height of 230 feet for the Agrium North "Prill Tower," the proposed Alaska LNG meteorological tower site falls within the EPA recommended distance of at least ten times the height of nearby obstructions. The potential aerodynamic effects due to the Agrium tower are mitigated by three key factors: The tower is well outside the predominant wind direction (See wind rose in Figure 3); the proposed meteorological site is outside the total depth of the building wake, estimated as approximately 2.5 times the height of the obstruction; and, with a separation distance of about 1,800 feet from our proposed meteorological tower location, the Prill Tower's thin character precludes it from having any measurable impact on wind speed or direction. The proposed tower location is also further away from the Agrium tower than an existing ADEC-approved meteorological tower. A representative photograph is shown in Appendix B, Photograph 1.

Information on stand-off distances from the proposed tower site and nearby obstructions is listed in Table 1.

**Table 1: Evaluation of Obstructions**

ID	Obstruction Name	Estimated Obstruction Height (feet)	Is Met Tower Site Outside 10:1 Standoff?
1	Tank 1: Cook Inlet Pipeline	80	Yes
2	Tank 2: Kenai LNG	110	Yes
3	Tank 3: Tesoro Refinery North	80	Yes
4	Tank 4: Tesoro Refinery South	80	Yes
5	Homer Electric Association	90	Yes
6	Kenai LNG	90	Yes
7	Agrium South	200	Yes
8	Agrium North (Prill Tower)	230	No

#### **Ambient Monitoring Station Site Approval**

The Alaska LNG project also proposes to install an ambient air monitoring station with co-located, non-PSD quality wind speed and direction equipment approximately 6,500 feet from the meteorological tower site described previously (See Figures 1 and 4). The project will collect data for the following parameters at this proposed monitoring site location:

- Ozone
- NO<sub>2</sub>
- SO<sub>2</sub>
- CO
- PM-10
- PM-2.5 (co-located)
- Wind speed and direction

In proposing the ambient station location, the project team has taken into consideration the requirements of 40 CFR Part 58, Appendix E. During a meeting with ADEC Air Monitoring Program staff on February 18<sup>th</sup>, the existing tree line near the proposed ambient station site was questioned. A representative photograph of the tree line southwest of the proposed station site is included in Appendix B. The project proposes to maintain a separation distance of at least 10 meters from the drip line of nearby trees that could otherwise act as obstructions to air flow.

In conclusion, thank you for consideration of this siting approval request. If you have any questions or need additional information regarding this request before March 15<sup>th</sup>, please contact me at 832-624-2816 or our Environmental, Regulatory, and Land Advisor, Jeff Raun, at 907-929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG  
Environmental, Regulatory and Land Manager  
For and on behalf of ExxonMobil Alaska Production Inc.

Enclosures

Appendix A: Figures

Appendix B: Representative Photographs

cc:

Alan Schuler, ADEC

Barbara Trost, ADEC

Brad Thomas, ConocoPhillips

Project File





2600 Cordova St, Ste 211  
Anchorage, AK 99503, USA  
T: 907.868.1103 • www.exp.com

June 30, 2014

Elizabeth Nakanishi  
Alaska Department of Environmental Conservation  
Air Permits Program  
619 E. Ship Creek Ave., Suite 249  
Anchorage, AK 99501-1677

Project No.: TAL-00219236-06

**Subject:** Quality Assurance Project Plan for the Alaska LNG Project Air Quality and Meteorological Monitoring Program—Nikiski

---

Dear Ms. Nakanishi:

Exp Energy Services, Inc. (exp) is submitting the enclosed Quality Assurance Project Plan (QAPP) for the Alaska LNG Project Air Quality and Meteorological Monitoring Program—Nikiski. As you are aware, on March 13, 2014, the Alaska Department of Conservation (ADEC) reviewed and conditionally approved the Nikiski Meteorological Monitoring site location and approved the Ambient Monitoring site as described in the ExxonMobil request letter sent on behalf of the Alaska LNG Project, dated February 25, 2014. Subsequently on June 6, 2014, ExxonMobil requested a modification to the conditionally approved Nikiski Meteorological Monitoring site location, which was approved by ADEC on June 13, 2014.

On behalf of the Alaska LNG Project, Exp requests ADEC review and determination whether the described monitoring program satisfies Prevention of Significant Deterioration (PSD) monitoring quality assurance requirements.

Please direct all correspondence or questions regarding this submittal to Aurora Courtney (exp Energy Services, Inc.) at (907) 868-1185, extension 4107 and Brad Broker (SLR International Corporation) at (907) 264-6974.

Sincerely,

Chris L. Humphrey, PE  
Vice President, Arctic Region

cc Aurora Courtney, exp Energy Services, Inc.  
Brad Broker, SLR International Corporation  
Jeff Raun, Alaska LNG  
Bart Leininger, Alaska LNG

**From:** [Trost, Barbara E \(DEC\)](#)  
**To:** [Brad Broker](#)  
**Cc:** [Fremgen, Daniel M \(DEC\)](#); [Nakanishi, Elizabeth D \(DEC\)](#); [Schuler, Alan E \(DEC\)](#); [RAUN, JEFF](#); [Aurora Courtney](#); [Bart Leininger](#); [Pfeiffer, Jim /SEC](#)  
**Subject:** RE: AK LNG QAPP review  
**Date:** February 09, 2015 10:08:39 AM  
**Attachments:** [PM25CollocationFrequencyRationale.docx](#)

---

Brad,

Thanks for sending the attached explanation. I was not aware of the changes EPA is proposing to the PSD PM2.5 collocation requirements.

ADEC's past comments reflect EPA OAQPS and EPA R10 interpretation of the current 40 CFR Part 58 Appendix B wording, which is: all applicants who use continuous analyzers to measure PM2.5 must adhere to the every third day FRM sampling schedule. The new rationale makes sense to me, but since the changes have not yet been adopted, ADEC does not want to set precedence. Chris Hall at EPA R10 indicated to me that EPA had not heard adverse comments to the change and expects the rule to become final sometime in March or April.

ADEC will accept the 1/6 collocation sampling schedule for AK LNG, assuming that the changes will become rule. Should the changes be stripped out of the final rule, ADEC and EPA would fall back to the old interpretation and require 1-in-3 sampling for the collocated sampler.

*Barbara*

~~~~~

*[barbara.trost@alaska.gov](mailto:barbara.trost@alaska.gov) | phone: 907-269-6249*

---

**From:** Brad Broker [<mailto:bbroker@slrconsulting.com>]  
**Sent:** Friday, January 30, 2015 7:52 AM  
**To:** Trost, Barbara E (DEC)  
**Cc:** Fremgen, Daniel M (DEC); Nakanishi, Elizabeth D (DEC); Schuler, Alan E (DEC); RAUN, JEFF; Aurora Courtney; Bart Leininger; Pfeiffer, Jim /SEC  
**Subject:** RE: AK LNG QAPP review

Barbara,

The Nikiski monitoring project does intend to use a continuous PM2.5 sampler. However we believe that the proposed 6-day sampling schedule for this project meets the PSD monitoring requirements.

The attached document provides the rationale for how the project came to the conclusion that 6-day sampling frequency should be acceptable for this project. We would like to discuss this directly with ADEC in a face-to-face meeting or via conference call as soon as something can be coordinated. The project requests that this be resolved quickly because the program has already begun data collection. Please provide me with the list of ADEC participants and their availability and I will arrange a brief meeting to bring this to conclusion.

Thank you for your time and consideration.

Brad

---

**From:** Trost, Barbara E (DEC) [<mailto:barbara.trost@alaska.gov>]  
**Sent:** January 28, 2015 11:52 AM  
**To:** Brad Broker  
**Cc:** Fremgen, Daniel M (DEC); Nakanishi, Elizabeth D (DEC); Schuler, Alan E (DEC)  
**Subject:** FW: AK LNG QAPP review

Brad,

Are you saying AK LNG will not use a continuous PM2.5 analyzer for this project? If you are using a FRM, then the primary FRM needs to sample every 3 days and your collocated sampler every 6<sup>th</sup> day. If you use a continuous analyzer as your primary, the collocated has to operate every 3<sup>rd</sup> day.

I'm not sure what you mean by "daily sampler". You can always use a FRM as the primary sampler, which can sample every third day, or if you want every day. If you elect to run the FRM daily you will also need collocation every 3<sup>rd</sup> day.

*Barbara*

~~~~~

[barbara.trost@alaska.gov](mailto:barbara.trost@alaska.gov) | *phone: 907-269-6249*

---

**From:** Nakanishi, Elizabeth D (DEC)  
**Sent:** Wednesday, January 28, 2015 11:33 AM  
**To:** Trost, Barbara E (DEC); Fremgen, Daniel M (DEC)  
**Cc:** Schuler, Alan E (DEC)  
**Subject:** FW: AK LNG QAPP review

Brad Broker would like to open communications regarding their PM2.5 collocated sampling frequency.

Who would be the person to deal with these issues?

~Elizabeth

---

**From:** Brad Broker [[bbroker@slrconsulting.com](mailto:bbroker@slrconsulting.com)]  
**Sent:** Tuesday, January 27, 2015 5:47 PM  
**To:** Nakanishi, Elizabeth D (DEC)  
**Subject:** Re: AK LNG QAPP review

Yes. It is for the PM2.5 collocated sampling frequency.

Thank you for the memo. I thought it might have come from this.

This memo states a 3 day schedule is required for all PSD programs. That statement is not entirely accurate.

40 CFR Part 58, Appendix A, 3.2.5.7 states: “*Sample the collocated audit monitor for SLAMS sites on a 12-day schedule; sample PSD sites on a 6-day schedule or every third day for PSD daily monitors.*”

The AK LNG sampler is not a "daily sampler" (required to run every day by permit or rule) so a 6 day schedule should be appropriate for this project.

Will you please take a look at this and let me know yours and ADECs thoughts?

Thanks. Brad.

Please excuse typos because this was sent from my iPhone (301-2187)

On Jan 27, 2015, at 4:15 PM, Nakanishi, Elizabeth D (DEC)  
<[elizabeth.nakanishi@alaska.gov](mailto:elizabeth.nakanishi@alaska.gov)> wrote:

Brad,  
Just for clarity's sake, we are discussing the sampling schedule for the PM 2.5 collocated FRM monitoring?

According to ASRC your QAPP submittal specifies a sample every 6 days. ASRC asked if there was any arrangement between ADEC and AKLNG. I sent a query off to the monitoring department and received the attached guidance in which it is stated that PSD requirements require collocated FRM sampling every third day. Please read the attachment for details.

I was informed that there are no arrangements between ADEC and AKLNG to allow 6 day sampling instead of 3 day.

I did not forward this information to you because I was not aware that it was an issue that required clarification. I believed only ASRC had a question as to ADEC requirements. If I missed a query email from AKLNG or yourself I apologize.

I am happy to forward email trails to you if you would like.  
I will also call you if you desire at a convenient time that you name.

Please tell me if there is any question left unanswered by this communication. I will attempt to find the answers you require.

Respectfully,  
Elizabeth

**Brad Broker**  
Principal Scientist  
SLR International Corporation

Direct: 907-264-6974

Cell: 907-301-2187

Office: 907-222-1112

Fax: 907-222-1113

Email: [bbroker@slrconsulting.com](mailto:bbroker@slrconsulting.com)

2700 Gambell Street, Suite 200, Anchorage, AK, 99503, United States

[www.slrconsulting.com](http://www.slrconsulting.com)



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---

**From:** Brad Broker [[bbroker@slrconsulting.com](mailto:bbroker@slrconsulting.com)]  
**Sent:** Tuesday, January 27, 2015 2:26 PM  
**To:** Nakanishi, Elizabeth D (DEC)  
**Subject:** RE: AK LNG QAPP review

Elizabeth,

I just tried to call you but could not get through or leave a message. Could you give me a call when you have a moment? I want to discuss the unresolved finding regarding the PM2.5 collocated sampling.

Basically, is this ASRC's finding and ADEC is awaiting a response from the project before making any sort of determination or does ADEC endorse this finding?

Normally I am used to seeing a little more feedback from ADEC on expectations for next steps.

Brad.  
264-6974

**Brad Broker**  
Principal Scientist  
SLR International Corporation

Direct: 907-264-6974  
Cell: 907-301-2187  
Office: 907-222-1112  
Fax: 907-222-1113  
Email: [bbroker@slrconsulting.com](mailto:bbroker@slrconsulting.com)  
2700 Gambell Street, Suite 200, Anchorage, AK, 99503, United States

[www.slrconsulting.com](http://www.slrconsulting.com)  
<[imageb4ff11.JPG](#)>

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---

**From:** Nakanishi, Elizabeth D (DEC) [<mailto:elizabeth.nakanishi@alaska.gov>]

**Sent:** January 23, 2015 3:34 PM

**To:** [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com); [bleininger@algcorp.com](mailto:bleininger@algcorp.com)

**Cc:** Brad Broker; Aurora Courtney; Trost, Barbara E (DEC); Schuler, Alan E (DEC); Fremgen, Daniel M (DEC)

**Subject:** RE: AK LNG QAPP review

Ms Courtney,

There are two items that were on the initial ASRC QAPP checklist that are still unresolved. These issues need to be addressed. Please feel free to contact us if there are any questions regarding these issues.

Respectfully,  
Elizabeth Nakanishi  
ADEC Air Quality

---

<Guidance\_re\_PSD\_\_PM2.5\_\_precision\_requirements\_(1).pdf>



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

## Department of Environmental Conservation

DIVISION OF AIR QUALITY  
Air Monitoring & Quality Assurance Program

619 E. Ship Creek Avenue, Suite 249  
Anchorage, Alaska 99501  
Main: 907.269.7577  
Toll free: 866.241.2805  
Fax: 907.269.7508

July 29, 2014

### **PM<sub>2.5</sub> Precision measurement requirement for Prevention of Significant Deterioration (PSD) sampling projects.**

The Alaska Department of Environmental Conservation is providing the following interpretation of the PSD PM<sub>2.5</sub> sampling requirements for collocated data pairs. For general information regarding the Department's air quality monitoring requirements, see 18 AAC 50.215(a) and <http://dec.alaska.gov/air/am/index.htm>.

PM<sub>2.5</sub> monitoring networks must have a redundant monitor at one or more of the monitoring sites as a data precision check, per 40 CFR 58 Appendix A Section 3.2.5. If the primary sampler at this site is an EPA approved Federal Equivalent Method (FEM) then the collocated sampler has to be an approved EPA Federal Reference Monitor (FRM). If the network is large enough to require more than one collocated site (i.e. more than 7 sites in the network) then 50 % of the collocated monitors shall be FRM samplers and the other 50% shall be FEM samplers having the same method designation as the primary sampler. The collocated FRM sampler shall operate every third day in order to produce *about* 25 valid sample pairs a year (emphasis added). A sample pair is considered valid if both 24-hour values are above 3 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ), per 40 CFR 58 Appendix A 4 (c).

The Department recognizes that in rural and remote areas of the state, PM<sub>2.5</sub> concentrations are usually low and that the EPA sampling schedule might not produce 25 data pairs with both values meeting the  $3 \mu\text{g}/\text{m}^3$  threshold. Therefore the Department considers the PM<sub>2.5</sub> PSD precision requirements met as long as:

1. the PM<sub>2.5</sub> data were collected following the EPA sampling frequency, and
2. the absolute difference of the PM<sub>2.5</sub> pairs where one or both sample values are below the  $3 \mu\text{g}/\text{m}^3$  concentration threshold is less than  $3 \mu\text{g}/\text{m}^3$ .

If an applicant believes an alternative sampling schedule is warranted, the applicant must provide a detailed description of and justification for the proposed alternate sampling schedule in the project specific Quality Assurance Project Plan (QAPP). Department approval will be required *prior to* collecting data under an alternative schedule.

A handwritten signature in blue ink, appearing to read "B. Trost".

Barbara Trost  
Program Manager

The Alaska LNG Project respectfully disagrees with the finding statement provided in ADEC Ambient Air and/or Meteorological Monitoring Quality Assurance Project Plan (QAPP) Review Checklist, section A7 provided by ASRC Energy Services. The disputed finding states: “PSD rules for PM<sub>2.5</sub> require every third day sampling for the collocated sampler.” In actuality, 40 CFR Part 58, Appendix A, 3.2.5.7 states: “Sample the collocated audit monitor for SLAMS sites on a 12-day schedule; sample PSD sites on a 6-day schedule or every third day for PSD daily monitors.”

The use of the term “daily monitor” has a history of confusion because the term “daily monitor” is currently not defined in 40 CFR. While one interpretation of the term “daily monitor” could refer to any sampler that collects a PM<sub>2.5</sub> concentration on a daily basis, and therefore requires collocation on a 3-day schedule, an alternate interpretation could equally be deduced. The term “daily monitor” only appears in the above citation and in 40 CFR 58.12 sections ii and iii where it is used to describe the increased frequency of PM<sub>2.5</sub> sampling that becomes required if ambient concentrations are known or expected to be near the NAAQS. Therefore, it could be concluded that the term “daily monitor” refers to these PM<sub>2.5</sub> samplers that are required to operate on a daily basis and therefore that is the scenario that triggers 3-day collocated sampling.

EPA clarified their intent for PSD collocation sampling frequency requirements recently stating: “Sample the collocated quality control monitor on a 6-day schedule for sites not requiring daily monitoring and on a 3-day schedule for any site requiring daily monitoring (underlined emphasis added).”<sup>1</sup> The Alaska LNG Project recognizes that this clarification is a non-binding proposed change to the ambient air quality monitoring requirements however it does provide insight into EPA’s intent for PSD collocated sampling requirements. This stated intent is consistent with the second interpretation that the term “daily monitor” refers to samplers that are required to operate on a daily basis and clearly not referring to all samplers that voluntarily provide data on a daily basis such as that proposed for the Alaska LNG project.

The project is aware of a July 29, 2014 policy memo (published after the project’s QAPP submittal on June 29, 2014) from the Alaska Department of Environmental Conservation (ADEC) where the finding statement provided to the Alaska LNG project requires a 3-day sampling schedule for its PSD monitoring.<sup>2</sup> We believe the memo’s main intent is to provide guidance on how to demonstrate compliance with 40 CFR 58, Appendix A, 3.2.5 PM<sub>2.5</sub> precision evaluations when ambient air PM<sub>2.5</sub> concentrations are below minimum concentrations necessary for valid measurement precision comparisons (< 3 µg/m<sup>3</sup>). The ADEC memo accurately indicates (and we agree) that the overall goal specified in 40 CFR 58, Appendix A, 3.2.5.7 is to produce about 25 data pairs for evaluation of PM<sub>2.5</sub> precision statistics. However, we do not agree with the statement in the memo that a 3-day schedule should be mandated for all PSD monitoring projects.

The EPA 1 in 6 sampling frequency schedule proposed by the Alaska LNG project is designed to collect about 60 sample pairs per year. This should be sufficient to satisfy the requirement to collect 25 pairs for precision evaluation because of expected PM<sub>2.5</sub> impacts from a significant local population and industrial influences near the station. If the Alaska LNG monitoring program does not collect 25 pairs meeting minimum concentration levels, this is not a critical flaw in the monitoring program. In this scenario, the procedure described in the ADEC memo is applicable because the 1 in 6 sampling schedule is “the EPA sampling frequency” applicable for the program (criteria 1 in the ADEC memo); and an acceptable absolute difference less than 3 µg/m<sup>3</sup> would define acceptable performance (criteria 2 in the ADEC memo).

---

<sup>1</sup> 40 CFR Part 58 Revisions to Ambient Monitoring Quality Assurance and Other Requirements; Proposed Rule, Appendix B, 3.2.3.2 (c). September 11, 2014.

<sup>2</sup> Alaska Department of Environmental Conservation. *PM<sub>2.5</sub> Precision measurement requirement for Prevention of Significant Deterioration (PSD) sampling projects*. Anchorage, Alaska. July 29, 2014. <http://dec.alaska.gov/air/am/Guidance%20on%20PSD%20PM2.5%20precision%20requirements.pdf>





Alaska LNG Project  
3201 C Street  
Suite 508  
Anchorage, AK 99503

Document No.: USAI-PE-SALTR-00-000021-000

July 1 2015

Alan Schuler  
Alaska Department of Environmental Conservation  
Air Permits Program  
410 Willoughby Ave Suite 303  
Juneau AK 99801

**Re: Alaska LNG air quality modeling approach**

Dear Alan

The Alaska LNG Project plans to construct several stationary sources of air emissions as part of its plan to construct an integrated project with interdependent facilities for the purpose of liquefying natural gas for export and opportunity for in-state delivery. As the lead agency for the National Environmental Policy Act (NEPA) Environmental Impact Statement (EIS) for Alaska LNG, the Federal Energy Regulatory Commission (FERC) has initiated a pre-filing process that precedes the commencement of the EIS process. As part of pre-filing, Alaska LNG is required to submit a series of draft Resource Reports. FERC issued a number of comments to Alaska LNG following its review of the Draft 1 Resource Reports, some of which are required to be addressed before the submittal of the Draft 2 reports. One such comment relates to Resource Report 9 (Air and Noise Quality), as follows.

*"Include results of consultations with the Alaska Department of Environmental Conservation (ADEC) and the U.S. Environmental Protection Agency concerning the availability of ambient monitoring data and that a complete and adequate air quality impact analysis can be accomplished with the available data, or if additional preconstruction ambient air monitoring would be required. If preconstruction monitoring is required, include a rationale for station siting and a schedule for preconstruction air quality and meteorological data collection, approval by the ADEC, and completion of the modeling analyses at the GTP and Liquefaction Facility. Include a contingency plan for any incomplete collection of data in this process (e.g., fill in data gaps with other monitoring datasets). This information is being requested prior to the next draft of resource reports to ensure that the appropriate data are available for analysis during the next round of review." Excerpt from FERC letter to Alaska LNG; May 15, 2015.*

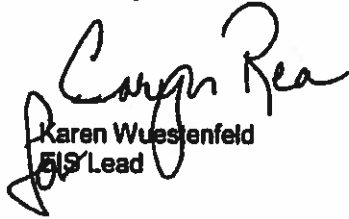
To address the request from FERC, Alaska LNG has prepared a proposed modeling approach, which identifies proposed source data and applicable modeling tools for each stationary source proposed to be constructed as part of the Alaska LNG Project. The approach addresses the modeling and air quality-related analyses that would be required to support review of the project under NEPA.

We are seeking ADEC's feedback on the enclosed modeling approach in writing, specifically to identify any inconsistencies that could be related to air permitting under ADEC regulations, to be able to provide FERC written evidence of ADEC's feedback in response to the above referenced comment.

To assist with meeting FERC's request by Aug 1 2015, the Alaska LNG Project requests agency comments by July 15 2015. We appreciate your assistance with this matter.

Please contact our Environmental Impact Statement Advisor, Norman Scott, at 907-929-4129 or by e-mail at [norm.scott@exxonmobil.com](mailto:norm.scott@exxonmobil.com) if you have any questions.

Sincerely,



Karen Wuestenfeld  
EIS Lead

Enclosure(s):  
Memorandum: Modeling Approach



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

**Department of Environmental  
Conservation**

**DIVISION OF AIR QUALITY  
Air Permits Program**

410 Willoughby Avenue, Suite 303  
Juneau, Alaska 99811-1800  
PO Box 111800  
Main: 907.465.5100  
Toll free: 866.241.2805  
Fax: 907.465.5129  
<http://www.dec.state.ak.us>

July 14, 2015

Karen Wuestenfeld  
EIS Lead  
Alaska LNG Project  
3201 C Street, Suite 506  
Anchorage, AK 99503

Subject: Alaska LNG's Air Quality Modeling Approach

Dear Ms. Wuestenfeld:

The Alaska Department of Environmental Conservation (ADEC) reviewed Alaska LNG's June 2015 *Modeling Approach for Federal Conservation Units* Memorandum, as requested in your July 1, 2015 letter to me. Our comments are enclosed, along with the following background statement, clarifications and highlights.

Alaska LNG stated they prepared the modeling approach to address a request from the Federal Energy Regulatory Commission (FERC) regarding the air quality assessments that Alaska LNG will conduct under the National Environmental Policy Act (NEPA). Alaska LNG asked ADEC to, "identify any inconsistencies that could be related to air permitting under ADEC regulations." Alaska LNG also noted that FERC's primary focus regarded "the availability of ambient monitoring data and that a complete and adequate air quality impact analysis can be accomplished with the available data, or if additional preconstruction ambient air monitoring would be required."

We have previously discussed some of our comments with Alaska LNG staff or their consultants. However, we are reiterating those comments in order to provide a formal record, and to also provide FERC with the same information. We are also highlighting the following.

- ADEC assessed the data needs from a permitting perspective. We further note that the ambient demonstrations required of a permit applicant are generally determined by project classification rather than ADEC discretion. Since the assessments conducted under NEPA are generally at the reviewing agency's discretion, there may be some ambient demonstrations conducted under NEPA that would not be needed, nor used, to meet the permitting requirements.
  - ADEC is not commenting on the datasets or procedures for NEPA-only demonstrations. For example, there is no regulatory provision regarding "Sensitive Class II Areas" in ADEC's air quality program. We treat all Class II areas the same – we do not require "Sensitive Class II Area" assessments as part of a Prevention of Significant Deterioration (PSD) permit application or a minor permit application. Therefore, we are unable to address the adequacy of Alaska

*Clean Air*

Karen Wuestenfeld  
Alaska LNG

July 14, 2015  
Alaska LNG's Air Quality Modeling Approach

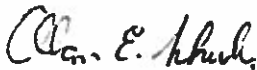
LNG's modeling approach for identifying the "sensitive" Class II areas of concern or for providing a federally-acceptable "Sensitive Class II Area" analysis.

- The enclosed comments are based on Alaska LNG's assessment of the required air permit (if any) that may be required for each stationary source. Alaska LNG's preliminary assessments seem reasonable. However, we will not be able to confirm these project classifications until Alaska LNG provides equipment-specific emissions calculations, which is probably not yet available.
- ADEC does not require minor new source review (NSR) permit applicants to collect pre-construction ambient pollutant data to supplement their modeling analysis, although they are free to do so. ADEC has always worked with minor permit applicants to find surrogate data sets when local pollutant data is not available. *Minor permit applicants may, however, need to collect at least 12-months of site-specific meteorological data if there is no existing data that adequately represents the plume transport conditions at the project site.*

Alaska LNG is proposing an alternative approach where they use the U.S. Environmental Protection Agency's (EPA's) MAKEMET program to generate screening-level meteorological data. This can be a viable approach for some projects. However, ADEC suspects that Alaska LNG will need to use site-specific meteorological data for the Compressor Station (CS) 4 modeling analysis. ADEC also encourages Alaska LNG to evaluate whether screening-level modeling assessments for the other compressor stations provide an adequate margin of compliance to accommodate the range of design changes that could occur during the detailed engineering phase. If not, Alaska LNG should obtain site-specific meteorological data so that they can conduct refined near-field modeling assessments if needed. A refined modeling analysis would require at least 12 consecutive months of PSD-quality meteorological data to meet ADEC's permit application requirements.

If you have any questions or need more information regarding our comments, please do not hesitate to contact me at (623) 271-9028 or at [alan.schuler@alaska.gov](mailto:alan.schuler@alaska.gov).

Sincerely,



Alan E. Schuler, P.E.  
Permits Section (Juneau Office)

Enclosures: ADEC Comments on Modeling Approach for Federal Conservation Units – Alaska LNG Project

cc: Norman Scott, Alaska LNG  
Barbara Trost, ADEC/AM&QA, Anchorage  
Patrick Dunn, ADEC/APP/Anchorage  
Fathima Siddeek, ADEC/APP/Juneau



**Alaska LNG Project**  
10613 West Sam Houston Parkway N  
Building B, Suite 500  
Houston, Texas 77064

October 14, 2015  
Ms. Elizabeth Nakanishi  
ADEC Air Monitoring Program  
619 E. Ship Creek Avenue, Suite 249  
Anchorage, AK 99501

Doc. No.: USAG-PE-SGPER-00-000002-004

**Re: Meteorological Monitoring Site Amendment Request, Gas Treatment Plant,  
Deadhorse, Alaska**

Dear Ms. Nakanishi:

On July 17, 2015 ExxonMobil Alaska LNG LLC (EMALL) requested siting approval for a 60-meter tall Prevention of Significant Deterioration (PSD) quality meteorological tower in Deadhorse, Alaska in support of the Alaska LNG Project (the Project). ADEC conditionally approved the tower siting request on August 17, 2015. An onsite disturbance was encountered during the tower installation work that caused the Project to abandon the original ADEC-approved site and identify an alternate location. An alternate nearby location was identified and EMALL requests ADEC siting approval for the alternate location described below. A statement of approval by October 31, 2015 would be appreciated.

A separate Quality Assurance Project Plan (QAPP) will be submitted to ADEC prior to initiating monitoring. Wind speed / wind direction monitoring equipment will be installed on an elevator system on the northeastern side of the tower to ensure it is exposed to the predominant wind conditions without obstruction. The meteorological data to be collected remains unchanged and will include PSD-quality measurements for the following:

- Horizontal wind speed at 10, 30, and 60 meters.
- Wind direction at 10, 30, and 60 meters.
- Sigma Theta ( $\Theta$ ) at 10, 30, and 60 meters.
- Vertical wind speed at 30 meters.
- Sigma Omega ( $\omega$ ) at 30 meters.
- Temperature at 2, 10, 30, and 60 meters.
- Delta temperature (10 m – 2m).
- Solar radiation at 2 meters.
- Barometric pressure at 2 meters.
- Relative humidity at 2 meters.

The proposed alternate tower location is approximately 187 meters (616 feet) to the north-northeast from the location previously approved by ADEC. Figure 1 of Attachment A shows the location of the 60m Meteorological tower with respect to the general area. Figure 2 shows a comparison between the ADEC-approved location and the new alternate location.

The location's longitude / latitude are: 70° 13.997'N 148° 22.377'W, the site elevation is approximately 55 feet above sea level. Figure 3 shows the proposed tower location in relation to nearby obstructions. Similar to the original location that was approved by ADEC, there remains two potential vertical obstructions in the vicinity, a GCI Communications Tower and an Alaska Telecom Communications Tower. These obstructions are believed to pose minimal aerodynamic effects for the following reasons:

- While the alternate location is slightly closer to the existing GCI Communications Tower, its location is well outside the predominant wind directions (see the wind rose on Figure 2).
- The proposed site is outside the total depth of the building wake, estimated at 2.5 times the height of the obstruction.
- With a separation distance of almost 400 meters from the proposed location, the thin character of the Alaska Telecom Communications tower's open-lattice construction precludes it from having any measurable impact on wind speed or wind direction should winds originate from that relative direction.

Table 1 provides a summary of the identified obstructions shown in Figure 3 and their distances from the proposed alternate tower site.

Table 1: Summary of Obstructions				
ID	Obstruction Name	Estimated Obstruction Height (meters)	Distance from Site (meters)	Meets 10:1 stand-off?
1	GCI Communications Tower	68	187	No
2	ExxonMobil Point Thomson laydown area, Misc. storage containers	3	45	Yes
3	Peak Oilfield Services support vehicles	3.5	260	Yes
4	Peak Oilfield Services main building	12	350	Yes
5	Schlumberger Building	12	450	Yes
6	Alaska Telecom Communications Tower	67	390	No
7	Peak Oilfield Services Maintenance Building	9	240	Yes
8	ExxonMobil Point Thomson Maintenance Shop	9	200	Yes

Thank you for your consideration of this siting approval request. If you have any questions or need additional information, please contact Ms. Adrienne Rosecrans at (832) 624-2722 or via email at [adrienne.n.rosecrans@exxonmobil.com](mailto:adrienne.n.rosecrans@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG Safety, Security, Health, and Environment Manager  
ExxonMobil Development Company  
For and on behalf of ExxonMobil Alaska LNG LLC

**Attachment:**

Attachment A: Supporting Figures

**cc:**

Alan Schuler, Alaska Department of Environmental Conservation  
Barbara Trost, Alaska Department of Environmental Conservation  
Chris Wrobel, exp Energy Services  
Shannon Miller, Alaska Department of Natural Resources  
Brad Broker, SLR International Corporation  
Project File



February 25, 2016

Elizabeth Nakanishi  
Alaska Department of Environmental Conservation  
Air Permits Program  
619 E. Ship Creek Ave., Suite 249  
Anchorage, AK 99501-1677

Re: Quality Assurance Project Plan for the Alaska LNG Project Meteorological Monitoring Program—GTP Revision 0

Dear Ms. Nakanishi:

SLR International Corporation (SLR) is submitting the enclosed Quality Assurance Project Plan (QAPP) for the Alaska LNG Project Meteorological Monitoring Program -GTP, Revision 0 on behalf of the Alaska LNG Project. The QAPP is submitted for Alaska Department of Environmental Conservation (ADEC) review and approval.

Please direct all correspondence or questions regarding this submittal to Chris Wrobel (exp Energy Services, Inc.) at (907) 868-1185, extension 4105 and myself at (907) 264-6974.

Sincerely,

Brad Broker  
Principal Scientist

cc Chris Humphrey, exp Energy Services, Inc.



RE Alaska LNG Project Gas Treatment Plant (GTP) Meteorological Monitoring QAPP Rev 0.txt  
From: Nakaniishi, Elizabeth D (DEC) <elizabeth.nakaniishi@alaska.gov>  
Sent: Monday, February 29, 2016 6:10 PM  
To: Brad Broker  
Cc: Christopher Wrobel; Schuler, Alan E (DEC); Chris Humphrey; Gravier, Michael (DEC)  
Subject: RE: Alaska LNG Project Gas Treatment Plant (GTP) Meteorological Monitoring QAPP, Rev 0

Brad,  
I'm writing to confirm that the hard copy of your submittal letter and the disk with your QAPP submittal arrived safely today. It has been entered into our system and placed into the queue.

There is one project ahead of yours. Please expect a slight delay to the review, caused by our Division of Air Quality's move from the Ship Creek building to the Cordova location this spring. I anticipate being able to start your review in May 2016.

Please let me know if this creates a scheduling issue.

Have a good day,  
Elizabeth

Elizabeth Nakaniishi (DEC)  
Environmental Program Technician DEC – AIR PERMITS PROGRAM  
(907)269-6953

From: Brad Broker [mailto:bbroker@slrconsulting.com]  
Sent: Thursday, February 25, 2016 3:39 PM  
To: Nakaniishi, Elizabeth D (DEC) <elizabeth.nakaniishi@alaska.gov>  
Cc: Christopher Wrobel <Christopher.Wrobel@exp.com>; Chris Humphrey <Chris.Humphrey@exp.com>  
Subject: Alaska LNG Project Gas Treatment Plant (GTP) Meteorological Monitoring QAPP, Rev 0

Elizabeth,

This is a courtesy e-mail to inform you that SLR International Corporation is submitting the Alaska LNG Project Gas Treatment Plant (GTP) Meteorological Monitoring Quality Assurance Project Plan (QAPP) Rev 0 on behalf of the Alaska LNG Project for Alaska Department of Environmental Conservation (ADEC) review and approval. The submittal should be delivered to your attention no later than Monday 2/29/2016. A copy of the letter of transmission accompanying the submittal is attached.

Thank you. Brad.

Brad Broker  
Principal Scientist  
SLR International Corporation

Direct:  
907-  
264-  
6974  
Cell:  
907-

RE Alaska LNG Project Gas Treatment Plant (GTP) Meteorological Monitoring QAPP Rev 0. txt

301-  
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Office:  
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Fax:  
907-  
222-  
1113  
Email:  
brooker@slrconsulting.com

2700 Gambell Street, Suite 200, Anchorage, AK, 99503, United States

[www.slrconsulting.com](http://www.slrconsulting.com)

**Confidentiality Notice and Disclaimer**

This communication and any attachment(s) contain information which is confidential and may also be legally privileged. It is intended for the exclusive use of the recipient(s) to whom it is addressed. If you have received this communication in error, please email us by return mail and then delete the email from your system together with any copies of it. Any views or opinions are solely those of the author and do not represent those of SLR Management Ltd, or any of its subsidiaries, unless specifically stated.

CAMBX1S

March 28, 2016

Elizabeth Nakanishi  
Alaska Department of Environmental Conservation  
Air Permits Program  
619 E. Ship Creek Ave., Suite 249  
Anchorage, AK 99501-1677

Re: Annual Data Report for the Alaska LNG Project Ambient Air Quality and Meteorological Monitoring Program — Nikiski, Revision 0

Dear Ms. Nakanishi:

Enclosed please find the Annual Data Report for the Alaska LNG Project Ambient Air Quality and Meteorological Monitoring Program – Nikiski, Revision 0. The report summarizes the data observed at the Alaska LNG Project Nikiski Background Ambient Air Quality monitoring station and the Nikiski 60-meter meteorological monitoring station from January 1, 2015, through December 31, 2015. The Alaska LNG Project requests Alaska Department of Environmental Conservation (ADEC) review and verification that the submitted data meets Prevention of Significant Deterioration (PSD) quality criteria.

Monitoring was conducted according to the procedures described in the Quality Assurance Project Plan (QAPP) for the Alaska LNG Project Air Quality and Meteorological Monitoring Program – Nikiski, Revision 3, approved by ADEC on April 20, 2015 unless indicated as a QAPP Variation in the report. All reported data was determined to be valid and meeting PSD-quality objectives. PM<sub>2.5</sub> PSD-quality objectives were considered satisfied despite collecting only 18 valid PM<sub>2.5</sub> collocated “precision” sample pairs as explained in the report.

Please direct all correspondence or questions regarding this submittal to myself at (907) 264-6974 or [bbroker@slrconsulting.com](mailto:bbroker@slrconsulting.com). For general Alaska LNG project questions, please contact Jeff Raun at (907) 929-4105.

Sincerely,



Brad Broker  
Principal Scientist

cc Jeff Raun, Alaska LNG Project  
Cecile Davis, exp Energy Services, Inc.  
Chris Humphrey, exp Energy Services, Inc.



July 5, 2016

Elizabeth Nakanishi  
Alaska Department of Environmental Conservation  
Air Permits Program  
619 E. Ship Creek Ave., Suite 249  
Anchorage, AK 99501-1677

Re: Quality Assurance Project Plan for the Alaska LNG Project Meteorological Monitoring Program—GTP Revision 1

Dear Ms. Nakanishi:

SLR International Corporation (SLR) is submitting the enclosed REVISED Quality Assurance Project Plan (QAPP) for the Alaska LNG Project Meteorological Monitoring Program -GTP, Revision 1 on behalf of the Alaska LNG Project. The QAPP is submitted to address findings provided by the Alaska Department of Environmental Conservation (ADEC) on June 21, 2016.

Please direct all correspondence or questions regarding this submittal to Chris Wrobel (exp Energy Services, Inc.) at (907) 868-1185, extension 4105 and myself at (907) 264-6974.

Sincerely,

Brad Broker  
Principal Scientist

cc Chris Wrobel, exp Energy Services, Inc.



July 5, 2016

Elizabeth Nakanishi  
Alaska Department of Environmental Conservation  
Air Permits Program  
619 E. Ship Creek Ave., Suite 249  
Anchorage, AK 99501-1677

Re: Quality Assurance Project Plan for the Alaska LNG Project Meteorological Monitoring Program—GTP Revision 1

Dear Ms. Nakanishi:

SLR International Corporation (SLR) is submitting the enclosed REVISED Quality Assurance Project Plan (QAPP) for the Alaska LNG Project Meteorological Monitoring Program -GTP, Revision 1 on behalf of the Alaska LNG Project. The QAPP is submitted to address findings provided by the Alaska Department of Environmental Conservation (ADEC) on June 21, 2016.

Please direct all correspondence or questions regarding this submittal to Chris Wrobel (exp Energy Services, Inc.) at (907) 868-1185, extension 4105 and myself at (907) 264-6974.

Sincerely,

A handwritten signature in blue ink, appearing to read 'B. Broker', is shown on a light blue background.

Brad Broker  
Principal Scientist

cc Chris Wrobel, exp Energy Services, Inc.

From: Nakanishi, Elizabeth D (DEC) <elizabeth.nakanishi@alaska.gov>  
Sent: Thursday, July 07, 2016 6:33 PM  
To: Brad Broker; RAUN, JEFF  
Subject: RE: DEC NTP CT 160001960 Review of Meteorological Monitoring Data and Pollutant Monitoring Data Alaska LNG Nikiski

Ovi,

Good afternoon Mr. Raun,

I have just received a request/revision list from the contractor regarding the AKLNG Nikiski Ambient/Met data review. (see below)  
Please review this list and address the issues noted. I am available to respond to any questions.

Thank you,  
Elizabeth

Below is the list of issues that SLR should address before we can finalize the data review:

Page

Table

Issues to address

23

Table 2-1

Revise number of hours invalidated during the January 16 event for meteorological parameters to match submitted data set.

23

Table 2-1

Revise number of hours invalidated during the January 18-23 event for relative humidity parameter to match submitted data set.

23-25

Table 2-1

Provide make, model and serial number for each piece of equipment replaced during the monitoring year. State clearly this information for the equipment replaced and for the replacement (see ozone transfer standard replaced on 2/13/2015).

24

Table 2-1

Revise number of hours invalidated during the April 9 event for ambient parameters to match submitted data set.

25

Table 2-1

Revise number of hours invalidated during the April 16 - April 12 event for NOX parameter to match submitted data set.

25

Table 2-1

Revise number of hours invalidated during the July 7 - July 8 event for all parameters to match submitted data set.

104

Table 3-1

Revise the Daily Max 1-Hour Averages value for Nitrogen Dioxide (reported 17.2, contractor calculated 16.2)

106

Table 3-1

Revise the YTD % of NAAQS/AAQs value for Particulate Matter <2.5 microns (reported 30.8, contractor calculated

24.8)

106

Table 3-1

Revise all value for Particulate Matter <10 microns (please recheck all reported values. Contractor calculated different values throughout)

134

Table 3-

22

Revise the Minimum Daily Mean Temperature for the 60-Meter Temperature for March 2015 (reported -16.5, contractor calculated -13.5)

157

Table B-4

Revise the 4th Quarter CO Precision Statistics Summary (recheck reported values on Table B-4)

212

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/9/2015

214

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/11/2015

216

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/13/2015

220

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/24/2015

Provide As Found Calibration Reports for each calibration where they are missing.  
(please check to ensure all "as found" are provided)

Elizabeth Nakanishi (DEC)

Environmental Program Technician DOA - AIR PERMITS PROGRAM

(907)269-6955



From: Brad Broker <bbroker@slrconsulting.com>  
Sent: Tuesday, July 12, 2016 4:31 PM  
To: Nakanishi, Elizabeth D (DEC); RAUN, JEFF  
Cc: Chris Humphrey  
Subject: RE: DEC NTP CT 160001960 Review of Meteorological Monitoring Data and Pollutant Monitoring Data Alaska LNG Nikiski  
Attachments: AlaskaLNG\_ResponseToIssues.pdf

Elizabeth,

The attached document provides a response to the list of issues that are identified below. Necessary revisions to the referenced tables and calibration records are also included.

As indicated previously, once ADEC and the review contractor validate the revisions as acceptable and confirm no additional comments are identified they will be merged into the report and a final, complete revised report will be re-submitted.

Thank you for the opportunity to address these issues.

Brad

From: Nakanishi, Elizabeth D (DEC) [mailto:elizabeth.nakanishi@alaska.gov]  
Sent: July 07, 2016 2:33 PM  
To: Brad Broker; RAUN, JEFF  
Subject: RE: DEC NTP CT 160001960 Review of Meteorological Monitoring Data and Pollutant Monitoring Data Alaska LNG Nikiski

Ovi,

Good afternoon Mr. Raun,

I have just received a request/revision list from the contractor regarding the AKLNG Nikiski Ambient/Met data review. (see below)  
Please review this list and address the issues noted. I am available to respond to any questions.

Thank you,  
Elizabeth

Below is the list of issues that SLR should address before we can finalize the data review:

Page  
Table

Issues to address

23

Table 2-1

Revise number of hours invalidated during the January 16 event for meteorological parameters to match submitted data set.

23

Table 2-1

Revise number of hours invalidated during the January 18-23 event for relative humidity parameter to match submitted data set.

23-25

Table 2-1

Provide make, model and serial number for each piece of equipment replaced during the monitoring year. State clearly this information for the equipment replaced and for the replacement (see ozone transfer standard replaced on 2/13/2015).

24

Table 2-1

Revise number of hours invalidated during the April 9 event for ambient parameters to match submitted data set.

25

Table 2-1

Revise number of hours invalidated during the April 16 - April 12 event for NOX parameter to match submitted data set.

25

Table 2-1

Revise number of hours invalidated during the July 7 - July 8 event for all parameters to match submitted data set.

104

Table 3-1

Revise the Daily Max 1-Hour Averages value for Nitrogen Dioxide (reported 17.2, contractor calculated 16.2)

106

Table 3-1

Revise the YTD % of NAAQS/AAQs value for Particulate Matter <2.5 microns (reported 30.8, contractor calculated 24.8)

106

Table 3-1

Revise all value for Particulate Matter <10 microns (please recheck all reported values. Contractor calculated different values throughout)

134

Table 3-

22

Revise the Minimum Daily Mean Temperature for the 60-Meter Temperature for March 2015 (reported -16.5, contractor calculated -13.5)

157

Table B-4

Revise the 4th Quarter CO Precision Statistics Summary (recheck reported values on Table B-4)

212

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/9/2015

214

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/11/2015

216

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/13/2015

220

NA

Provide As Found Calibration Report for Ozone for the calibration conducted on 2/24/2015

Provide As Found Calibration Reports for each calibration where they are missing.  
(please check to ensure all "as found" are provided)

Elizabeth Nakanishi (DEC)

Environmental Program Technician DOA - AIR PERMITS PROGRAM

(907)269-6955



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-90-000002-000

July 18, 2016

James Rypkema  
555 Cordova Street  
Anchorage, AK 99501

**Re: Letter to ADEC - Review of Nikiski Capital Dredge Material Characterization SAP**

Dear Mr. Rypkema:

ExxonMobil Alaska LNG LLC (EMALL) on behalf of the Alaska LNG Project (Project) is requesting your review of the revised Sampling and Analysis Plan (SAP) for the Alaska LNG Project sediment sampling program at Nikiski to support future evaluation and permitting of potential capital (construction) dredging in Cook Inlet.

We would greatly appreciate feedback on the SAP by July 29<sup>th</sup> if possible so that we can incorporate any modifications and plan potential future work programs.

We appreciate and thank you for your cooperation. If you have any questions about the enclosed plan, please contact Jeff Raun at 907-929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink that reads "PE Brinkmann".

Philip Brinkmann  
Alaska LNG Project  
Licensing Manager  
For and on behalf of ExxonMobil Alaska LNG LLC (EMALL)

Enclosure:  
Capital Dredge Material Characterization Sampling Analysis Plan (Doc No. USAL-CH-JPZZZ-90-000008-000)

cc:  
Sandy Gibson – USACE  
Mary Romero – USACE  
Chris Meade – EPA  
Jennifer Murrell - ADNR

AKLNG Niki ski NTP CT 160001960 Data review Findings.txt  
From: Nakani shi , El i zabeth D (DEC) <el i zabeth.nakani shi @al aska. gov>  
Sent: Thursday, July 21, 2016 3:40 PM  
To: RAUN, JEFF; Brad Broker  
Cc: Schuler, Al an E (DEC)  
Subject: AKLNG Niki ski NTP CT 160001960 Data review Findings  
Attachments: AKLNG Niki ski ADR Findings 072116.pdf

Good afternoon Mr. Raun,

For the Alaska LNG Niki ski Ambient/Meteorological data review, the data submitted by AKLNG was reviewed under contract by ASRC Energy Services (AES).

The Department accepts AES's determinations that the ambient air and meteorological data collected at the Niki ski site are PSD quality for all four quarters (report period January 1, 2015 – December 31, 2015). Please see the attached findings report for details.

During the review, SLR submitted a revised Appendix D. The Department requires no further revisions.

It was a pleasure working with you.

Regards,  
El i zabeth

El i zabeth Nakani shi (DEC)  
Environmental Program Technician DEC – AIR PERMITS PROGRAM  
(907)269-6953

Alaska Department of Fish & Game

ADF&G

**From:** Winters, Jack F (DFG) <jack.winters@alaska.gov>  
**Sent:** Thursday, July 03, 2014 2:59 PM  
**To:** Cornelison, Wes  
**Cc:** Morris, William A (DFG); Ayers, Scott D (DFG); Rosecrans, Adrienne N; Miller, Shannon D (PCO)  
**Subject:** RE: Alaska LNG Fish Survey Protocols

Wes,

The Alaska Department of Fish and Game (ADF&G) has reviewed the Alaska LNG 2014 Stream Fish Investigations Field Study Protocols (USAKE-UR-SPFLD-00-0010). The 2014 protocols are essentially the same as those used in previous gas line-related stream sampling efforts. The ADF&G has issued a 2014 Fish Resource Permit for handling fish associated with stream field surveys designed to characterize fish presence and fish habitat along the proposed gas pipeline route. The issuance of Fish Resource Permits generally indicates the approval by the Department of the proposed sampling objectives and techniques.

The ADF&G believes the sampling protocols are generally adequate for characterizing fish habitat and fish presence along the proposed pipeline right-of-way. The ADF&G will review the results of the sampling and along with published and unpublished information, and best professional judgment, determine if the streams are properly characterized for permitting purposes.

Jack

---

**From:** Cornelison, Wes [mailto:wes.cornelison@urs.com]  
**Sent:** Wednesday, June 11, 2014 1:10 PM  
**To:** Winters, Jack F (DFG)  
**Subject:** Alaska LNG Fish Survey Protocols

Hi Jack. Thanks for taking the time today to meet with us today. Believe it or not we are one step closer to getting a gas line for state.

I have attached our Stream Fish Investigations Protocols for your review. As previously mentioned, these protocols have been applied for all Project stream investigations since 2010 (Alaska Pipeline Project and the Alaska LNG Project). The primary objective of this program is to characterize fish presence and habitat in defined stream reaches that fall within the Project footprint. Please let me know via email if you deem these protocols sufficient to achieve this objective.

Best-

**Wes Cornelison**  
 Natural Resources Group Manager  
 URS Corporation  
 700 G Street, Suite 500  
 Anchorage, AK 99501  
 (o) 907-261-6728  
 (c) 907-223-1089



**Alaska LNG Project**  
16945 Northchase Drive, DEV-GP4  
Houston, Texas 77060

Ref No.: USAKE-EX-SRZZZ-00-0002

August 13, 2014

Randy Bates  
Division Director  
Alaska Department of Fish and Game  
Post Office Box 115526  
Juneau, Alaska 99811

**Re: Review of Fish Studies Data Gathered by the Alaska Pipeline Project and the Alaska LNG Project**

Dear Mr. Bates:

On behalf of the Alaska LNG Project (Project), this letter and its attachments seek your concurrence regarding data to be used in the regulatory approval process for the Project. As discussed in previous meetings with the Alaska Department of Fish and Game (ADF&G), a considerable body of work has been compiled for portions of the Project footprint north of Livengood, Alaska, including data that is common to a previous gas project (Alaska Pipeline Project). The available body of work includes information gathered by the previous project, as well as information gathered during supplemental surveys conducted by the Project in 2013.

Some of the previously gathered data are no longer applicable or within the proposed Alaska LNG Project footprint; therefore the Project has developed and enclosed the following: an overview of the Stream Fish Survey Program to explain program objectives and summarize study results (Attachment A); a table summarizing potential stream crossings by the current preferred Alaska LNG Mainline Pipeline Route and the Point Thomson Pipeline Route and associated data for each crossing (Attachment B); and two mapbooks (one for the Mainline Pipeline and one for the Point Thomson Pipeline) illustrating the locations of all potential stream crossings (Attachment C).

The Project requests ADF&G's review and endorsement of this data set so that it may be used in the upcoming Federal Energy Regulatory Commission application and resulting Environmental Impact Statement. If you have any questions or require further information, please contact Adrienne Rosecrans at (832) 624-2722.

Sincerely,

A handwritten signature in black ink, appearing to read "Ruben Medrano".

Ruben Medrano  
Alaska LNG  
Regulatory Lead  
For and on behalf of ExxonMobil Alaska LNG LLC



**Enclosures**

**Attachment A: Stream Fish Survey Program Overview**

**Attachment B: Stream Table**

**Attachment C: Alaska LNG Mainline Fish Stream Mapbook, Point Thomson Pipeline Fish Stream Mapbook**

**cc: Project files  
SPCO – Shannon Miller**

Stakeholder



Alaska LNG Project  
3201 C Street, Suite 505  
Anchorage, Alaska 99503

Ref. No.: L-AKE-PT-13-0004

October 14, 2013

**Re: Alaska LNG Project Selects Lead Terminal Location**

Dear

Over the past year our four companies, ExxonMobil, ConocoPhillips, BP and TransCanada, have worked diligently to advance our understanding of what is required to make an LNG export project possible in Alaska. From production and gas treatment to the pipeline and the liquefaction and storage facilities, this undertaking represents a world-class project with unprecedented challenges. Earlier this year we completed our concept selection process, during which time we reviewed technical work and agreed on a project concept.

Currently, the companies are continuing to refine the agreed project concept that includes a gas treatment plant located on the North Slope, an 800-mile, 42-inch diameter pipeline with up to eight compression stations and at least five off-take points for in-state gas delivery, and a liquefaction plant and terminal. The Alaska LNG project team is preparing for more detailed engineering and design work, consistent with previously released plan phases.

After evaluating more than 20 locations, the Alaska LNG Project team has identified a primarily industrial area near Nikiski as the lead site for the liquefaction plant and marine terminal. We continue to consider secondary sites in Southcentral Alaska. The Nikiski site results in a pipeline route that provides an access opportunity to North Slope natural gas by the major population centers in Fairbanks, Mat-Su Valley, Anchorage and Kenai.

Please find attached a courtesy copy of a press release that was recently issued. We will continue to provide updates to you as our efforts progress. In the meantime if you have questions or concerns about the project, please contact me at (907) 564-3622 or Michael Nelson at (907) 929-4116.

Best regards,

Lisa L. Gray  
Senior Stakeholder Engagement Advisor  
Alaska LNG Project

Cc: File  
PGA

Tribal Contact List

Tribal Organization	Contact Name	Address	City	State	Zip	Phone
Alatna Village	Peter David, First Chief	P.O. Box 70	Alatna	AK	99720	907-968-2261
Allakaket Village	Gordon Bergman, First Chief	P.O. Box 50	Allakaket	AK	99720	907-968-2237
Eklutna Native Village	Lee Stephan, President & First Chief	26339 Eklutna Village Road	Chugiak	AK	99567	907-688-6020
Evansville Tribal Council	Frank Thompson, First Chief	P.O. Box 26087	Bettles Field	AK	99726	907-692-5005
Inupiat Community of the Arctic Slope	George Olemaun, President	P.O. Box 934	Barrow	AK	99723	907-852-4227
Kaktovik Village	Isaac Akootchook, President	P.O. Box 130	Kaktovik	AK	99747	907-367-6181
Kenaitze Indian Tribe	Rose Tepp, Chairperson	P.O. Box 988	Kenai	AK	99611	907-640-2042
Knik Tribe	Michael Tucker, President	951 E. Bogard, Suite 101	Wasilla	AK	99564	907-335-7200
Nagsragnuit Traditional Council (Anaktuvuk Pass Federally Recognized Tribe)	Lillian Stone, President	P.O. Box 21170	Anaktuvuk Pass	AK	99721	907-373-7991
Native Village of Barrow						
Inupiat Traditional Government	Thomas Olemaun, President	P.O. Box 1130	Barrow	AK	99723	907-852-4411
Native Village of Cantwell	Rene Nicklie, President	P.O. Box 94	Cantwell	AK	99729	907-768-2591
Native Village of Minto	Lori Baker, First Chief	P.O. Box 58026	Minto	AK	99758	907-798-7112
Native Village of Nuiqsut	Bernice Kaigelak, President	P.O. Box 89169	Nuiqsut	AK	99789	907-480-3010
Native Village of Stevens	Harold W. Simon, President	P.O. Box 74016	Stevens Village	AK	99774	907-649-2104
Native Village of Tyonek	Alfred Goozmer, President	P.O. Box 82009	Tyonek	AK	99682	907-583-2111
Nenana Native Association	Paul Moses, First Chief	P.O. Box 356	Nenana	AK	99760	907-832-5461
Niniichik Traditional Council	Greg Encelewski, President	P.O. Box 39070	Niniichik	AK	99639	907-567-3313
Rampart Traditional Council	Tom Wiehl, President	P.O. Box 67029	Rampart	AK	99767	907-358-3312
Village of Salamatoff	Penny Carty, President	P.O. Box 2682	Kenai	AK	99611	907-283-7864



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: LT-AKE-PT-14-0101-001

October 23, 2014

RE: Alaska LNG Project  
FERC Docket No.: PF14-21-000

Dear

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Project.

#### **Alaska LNG Project Overview**

The Alaska LNG Project Participants are proposing to construct one integrated liquefied natural gas (LNG) project with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular the Point Thomson Unit and Prudhoe Bay Unit production fields on the Alaska North Slope for export in foreign commerce. The proposed project includes the construction of a liquefaction facility in south central Alaska, an approximately 800-mile mainline gas pipeline, a gas treatment plant on the North Slope, and gas transmission lines connecting the gas treatment plant to the Point Thomson Unit and Prudhoe Bay Unit fields. The mainline gas pipeline will include at least five off-take points to allow for the opportunity for future in-state deliveries of natural gas.

Enclosed with this letter are a general project map and a project overview diagram reflecting the proposed facilities and their planned locations. Additional information on the project can be found at [www.ak-lng.com](http://www.ak-lng.com).

FERC authorizations are required to construct and operate these facilities. The Alaska LNG Project Participants are targeting to file a formal application for the Project with the FERC in September 2016. FERC authorizations for the project and commencement of construction are



anticipated in the 2018 – 2019 timeframe. Pursuant to this schedule, facilities would begin operating in the 2024 – 2025 timeframe.

Proposed facilities will be located in the North Slope Borough, Yukon-Koyukuk Census Area, Fairbanks North Star Borough, southeast Fairbanks Census Area, and the Kenai Peninsula Borough.

#### **FERC Pre-filing Process**

Project Participants are currently gathering information about cultural resources in preparation for submitting an application to the FERC, pursuant to the Commission's regulations at 18 Code of Federal Regulations (CFR) Part 380.12(f) and recommendations in the FERC's Office of Energy Projects' *Guidelines for Reporting on Cultural Resources Investigations for Pipeline Projects*. In accordance with the Advisory Council on Historic Preservation (ACHP) regulations for implementing Section 106 of the National Historic Preservation Act (NHPA; 16 USC § 470 as amended), provided in 36 CFR Part 800.2(a)(3), applicants and their consultants may prepare information, analyses, and recommendations for use by the agency. However, the agency remains responsible for making final determinations.

Project Participants do not represent the FERC in terms of government-to-government consultations with Alaska Native Tribes. The FERC has an established policy for consulting with Alaska Native Tribes, articulated in Order 635, *Policy Statement on Consultations with Indian Tribes in Commission Proceedings* issued July 23, 2003. The FERC will initiate direct consultations with Tribes when it issues its Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS). If you would like to communicate directly with the FERC natural gas archaeological staff to discuss its cultural resource review and consultation processes, please feel free to contact Paul Friedman, Senior Technical Expert in Cultural Resources, at 202-502-8059 (email: paul.friedman@ferc.gov).

The purpose of this letter is to request your assistance in the identification of archaeological sites or Traditional Cultural Properties important to the Tribe that may be affected by the proposed Project. Cultural resources data will be included in Resource Report 4 of the overall Environmental Report that would form part of the application. By including information provided by the tribes in our application, FERC can better evaluate any potential impacts on known sites and propose avoidance or mitigation measures during its review. Any information you provide about potential sites would be treated in a confidential manner, as FERC's regulations and guidelines require that cultural resources data be filed as Privileged.

If you have any questions, please contact me at 832-624-2816 or by email at Charlie.kominas@exxonmobil.com. Thank you in advance for your response to this letter.

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Lori Boros, FERC  
Jim Martin, FERC  
Judith Bittner, Alaska Office of History and Archaeology  
Dr. Robert King, BLM State Archaeologist  
Project file

Date (2015)	Activity	Information Included/Topics Discussed
September 21 – September 25	<p>Called and sent follow up emails to the following:</p> <ul style="list-style-type: none"> <li>Native Village of Nuiqsut</li> <li>Native Village of Barrow</li> <li>Native Village of Eklutna</li> <li>Kenaitze Indian Tribe</li> <li>Inupiat Community of the Arctic Slope</li> <li>Native Village of Tyonek</li> <li>Ninilchik Traditional Council</li> <li>Salamatof Native Association Inc.</li> <li>Allakaket Village</li> <li>Native Village of Evansville</li> <li>Native Village of Kaktovik</li> <li>Village of Anaktuvuk Pass</li> <li>Native Village of Cantwell</li> <li>Native Village of Minto</li> <li>Native Village of Nenana</li> <li>Native Village of Rampart</li> <li><i>Alatna Village</i></li> <li><i>Native Village of Steven's Village</i></li> </ul>	<ul style="list-style-type: none"> <li>Cultural Properties form letter dated Oct. 23, 2014 from Charlie Kominas, Alaska LNG</li> <li>Project Map &amp; Overview</li> <li>FERC contact information</li> <li>Alaska LNG contact information for Lisa Gray</li> </ul> <p><i>*Note Alatna Village and Native Village of Steven's Village were not successfully contacted. There was no opportunity to leave messages and no one answered the initial phone calls.</i></p>
September 21	Allakaket Village	Indicated the tribe would be having a council meeting and sharing the information.
September 21	Native Village of Evansville	Stated the pipeline corridor is their neighbor and they have already reviewed the EIS for the pipeline (ASAP).
September 22	Kenaitze Indian Tribe	Responded with Ms. Brenda Trefon as the point of contact for future Section 106 correspondence.
September 23	Native Village of Eklutna	Responded they did not have enough information to provide comments.
September 24	Ninilchik Traditional Council	Emailed to indicate they did not have any need for tribal consultation at this time.
September 24	Salamatof Native Association Inc.	Responded that Chris Monfor is the President and point of contact, they are supportive of the Alaska LNG project and do not request tribal consultation at this time.
September 22	Native Village of Nenana	Indicated they have set up a FERC meeting on October 16, 2015 in Anchorage.



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

April 14, 2015

Dear

The Alaska LNG project would like to provide you with a brief update on upcoming project planning, outreach and study activities that may touch subsidiaries and shareholders from your Corporation. As we've discussed in recent meetings, the project is in the pre-FEED phase to progress required permits and mature the design of the liquefaction plant, marine terminal, pipeline, and gas treatment plant to connect the Prudhoe Bay and Point Thomson gas resources to export and in-state markets.

A key element of this initial planning phase is to better understand the capacity within Alaska to support the design and construction of such a large and complex project. Two critical areas we're working over the next several months are project logistics and construction labor resources.

The project logistics study evaluates the project's broad infrastructure requirements, including:

- Material logistics supplier capacities (storage warehouses and laydown yards, fuel supply)
- Aviation operators and support capabilities (airfreight, air charters, helicopters, fixed wing)
- Logistics infrastructure and routes (ice road construction, maintenance and support)
- Transportation (Trucking, barging, rail)
- Key support ports
- People logistics management (camp management, personnel travel coordination, camp catering, housekeeping)

PRL Inc., based in Kenai, has been contracted to support this logistics study and will be reaching out to logistics companies, transportation suppliers, and other businesses in Alaska over the coming months. These contacts will include discussions with all of the Alaska Native



regional and village corporations, so we wanted to ensure you were aware PRL was completing this work on behalf of the project.

Concurrently, the project labor study will develop a database and sourcing strategy for Alaska LNG's construction and operation phase. The study will involve a combination of desktop research and direct interface with key stakeholders to obtain input on current and forecasted labor availability. The initial phase of the study focuses on construction-related craft labor directly working the Alaska LNG project as well as support industries. Some examples of required skills include: pipefitters, welders, ironworkers, carpenters, scaffolders, cement finishers, sheet metal workers, boilermakers, equipment operators, truck drivers, electricians, instrument technicians, insulators, and more. The labor study will define gaps between supply and demand and develop strategies to address these gaps including in-state workforce development initiatives, training programs/facilities, apprenticeship opportunities and other initiatives.

We would like to request your support for both studies. In addition to your organization, the project will also reach out to labor unions, state government officials, industry groups and others. We know your perspectives are particularly important and we look forward to working together to advance Alaska LNG.

As a final item, the project's contracting team will be hosting business information sessions to provide Alaska's business community with a project update and information about basic procurement eligibility criteria, standards and expectations. The objective of these sessions is to build collaboration between the Alaska LNG project and Alaska's business community as we progress the project. More information about these meetings is on our website ([ak-lng.com](http://ak-lng.com)) and sessions will be held as follows:

- April 27, 2015 (Anchorage)
- April 28, 2015 (Fairbanks)
- April 29, 2015 (Kenai)
- May 1, 2015 (Barrow)

I look forward to discussing these initiatives with you further over the coming months and would greatly appreciate the opportunity to meet with you in person sometime in the near future. In the meantime, please do not hesitate to contact me (832-624-3240) or Alaska LNG's External Affairs Manager, Kim Fox (907-564-3628), if you have any questions or would like to discuss the project in any way.

Yours sincerely,



Steve Butt  
Senior Project Manager, Alaska LNG Project

Mailing List for USAI-PE-SALTR-00-000009-000

ANCSA Member	Contact Name	Address	City	State	Zip
Ahtna, Inc	Michelle Anderson	PO Box 649	Glennallen	AK	99588
The Aleut Corporation	Thomas Mack	4000 Old Seward, Suite 300	Anchorage	AK	99503
Arctic Slope Regional Corporation	Rex Rock Sr.	PO Box 129	Barrow	AK	99723
Bering Straits Native Corporation	Gail Schubert	4600 DeBarr Rd, Suite 200	Anchorage	AK	99508
Bristol Bay Native Corporation	James Metrokin	111 W 16 <sup>th</sup> Ave, Suite 400	Anchorage	AK	99501
Calista Corporation	Andrew Guy	301 Calista Court, Suite A	Anchorage	AK	99518
Chugach Alaska Corporation	Gabriel Kompkoff	3800 Centerpoint Dr, Suite 601	Anchorage	AK	99503
Cook Inlet Region, Inc.	Sophie Minich	PO Box 93330	Anchorage	AK	99509
Doyon Limited	Aaron Schutt	1 Doyon Place	Fairbanks	AK	99701
Koniaq, Inc.	Tom Panamaroff	194 Alimaq Dr	Kodiak	AK	99615
NANA Regional Corporation, Inc	Wayne Westlake	PO Box 49	Kotzebue	AK	99752
SeaAlaska Corporation	Anthony Mallot	One SeaAlaska Plaza, Suite 400	Juneau	AK	99801

---

**From:** Rosetta Alcantra <ralcantra@E3Alaska.com>  
**Sent:** Tuesday, September 22, 2015 2:50 PM  
**To:** native.village@astacalaska.net  
**Subject:** 092215\_NVof Nuiqsut Alaska LNG Project Informal Section 106 letter  
**Attachments:** Project Map & Overview.pdf; Form Letter.pdf

Dear Martha,

I am following up on the attached letter which was sent out in October 2014 initiating informal Section 106 cultural resources consultation to your previous tribal council president. The letter was addressed to Bernice Kaigalak. The Alaska LNG is currently gathering information about cultural resources in preparation for submitting the project application to the Federal Energy Regulatory Commission (FERC) in the third quarter of 2016. As the program continues to develop, we will have further discussions with the Native Village of Nuiqsut regarding archaeological sites and sites of cultural importance, with the objective to avoid or minimize impacts to these resources.

In addition, the FERC sent out letters to initiate government-to-government consultation on May 20, 2015. This letter requested input on the environmental impacts associated with construction and operation of the Alaska LNG project. If you wish to participate in a government to government consultation, please contact FERC at your earliest convenience. The Alaska LNG looks forward to continued dialogue with you as the Project progresses.

**FERC Contact Information:**

Eric Howard

Phone: (202) 502-6263

Email: [eric.howard@ferc.gov](mailto:eric.howard@ferc.gov)

If you have any questions, please don't hesitate to contact me.

Regards,

**Rosetta Alcantra, President**

**E3 Environmental, LLC**

219 E. International Airport Rd., Suite 100, Anchorage, AK 99518

Ph: 907.565.4200 Mobile: 907.354.3769

Email: [ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)

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"22 CFR Part 125.4 (b) (9) applicable."

---

**From:** Rosetta Alcantra <ralcantra@E3Alaska.com>  
**Sent:** Tuesday, September 22, 2015 1:41 PM  
**To:** Rebecca Brower (tolemaun@nvbarrow.net)  
**Subject:** 092215\_NVof Barrow\_Alaska LNG Project Informal Section 106 Letter  
**Attachments:** Project Map & Overview.pdf; Form Letter.pdf

Thomas,

Thank you for taking my call yesterday regarding the Alaska LNG. As you know, I am following up on the attached letter which was sent out in October 2014 initiating informal Section 106 cultural resources consultation. Although the attachment is a form letter, I understand the original was addressed to you. The Alaska LNG is currently gathering information about cultural resources in preparation for submitting the project application to the Federal Energy Regulatory Commission (FERC) in the third quarter of 2016. As the program continues to develop, we will have further discussions with the Native Village of Barrow Inupiat Traditional Government regarding archaeological sites and sites of cultural importance, with the objective to avoid or minimize impacts to these resources.

In addition, the FERC sent out letters to initiate government-to-government consultation on May 20, 2015. This letter requested input on the environmental impacts associated with construction and operation of the Alaska LNG project. If you wish to participate in a government to government consultation, please contact FERC at your earliest convenience. The Alaska LNG looks forward to continued dialogue with you as the Project progresses.

**FERC Contact Information:**

Eric Howard  
Phone: (202) 502-6263  
Email: [eric.howard@ferc.gov](mailto:eric.howard@ferc.gov)

Again, thank you for taking my call and please don't hesitate to contact me if you have questions.

Regards,

**Rosetta Alcantra, President**

**E3 Environmental, LLC**

219 E. International Airport Rd., Suite 100, Anchorage, AK 99518

Ph: 907.565.4200 Mobile: 907.354.3769

Email: [ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)

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"22 CFR Part 125.4 (b) (9) applicable."



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**From:** Rosetta Alcantra <[ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)>  
**Sent:** Wednesday, September 23, 2015 8:51 AM  
**To:** Marc Lamoreaux  
**Cc:** 'Marlene'; 'Maria Coleman'  
**Subject:** 092315\_Follow up NVE\_Alaska LNG Informal Section 106 letter

Marc,  
Thanks for discussing the option of having a meeting with me yesterday. I appreciate your comments regarding the lack of detailed information and that at this time you don't feel like there is enough information to respond to. I will keep you informed about future meetings happening in the Anchorage area as the project moves forward.

Have a great rest of the week and thanks again, it is always a pleasure to talk to you.

Regards,

Rosetta

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**From:** Marc Lamoreaux [<mailto:nve.ledirector@eklutna-nsn.gov>]  
**Sent:** Tuesday, September 22, 2015 4:19 PM  
**To:** Rosetta Alcantra <[ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)>  
**Cc:** 'Marlene' <[administrator@eklutna-nsn.gov](mailto:administrator@eklutna-nsn.gov)>; 'Maria Coleman' <[maria@like-the-wind.com](mailto:maria@like-the-wind.com)>  
**Subject:** RE: Alaska LNG Informal Section 106 letter

Rosetta,  
We need more information. Can you send or direct me to more detailed maps of the preferred and optional routes below Talkeetna? When should we expect an environmental impact statement to review, and possibly comment on? And, information on strategies to advocate for more jobs for tribal members?  
Thanks,  
Marc

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**From:** Rosetta Alcantra [<mailto:ralcantra@E3Alaska.com>]  
**Sent:** Tuesday, September 22, 2015 1:26 PM  
**To:** Marc Lamoreaux (<[nve.ledirector@eklutna-nsn.gov](mailto:nve.ledirector@eklutna-nsn.gov)>)  
**Cc:** Marlene; Maria Coleman  
**Subject:** Alaska LNG Informal Section 106 letter

Marc,

Thank you for taking my call yesterday regarding the Alaska LNG. As you know, I am following up on the attached letter which was sent out in October 2014 initiating informal Section 106 cultural resources consultation. The letter was addressed to Lee Stephan. The Alaska LNG is currently gathering information about cultural resources in preparation for submitting the project application to the Federal Energy Regulatory Commission (FERC) in the third quarter of 2016. As the program continues to develop, we will have further discussions with the Native Village of Eklutna regarding archaeological sites and sites of cultural importance, with the objective to avoid or minimize impacts to these resources.

In addition, the FERC sent out letters to initiate government-to-government consultation on May 20, 2015. This letter requested input on the environmental impacts associated with construction and operation of the Alaska LNG project. If

you wish to participate in a government to government consultation, please contact FERC at your earliest convenience. The Alaska LNG looks forward to continued dialogue with you as the Project progresses.

**FERC Contact Information:**

**Eric Howard**

**Phone: (202) 502-6263**

**Email: [eric.howard@ferc.gov](mailto:eric.howard@ferc.gov)**

Again, thank you for taking my call and please don't hesitate to contact me if you have questions.

Regards,

**Rosetta Alcantra, President**

**E3 Environmental, LLC**

219 E. International Airport Rd., Suite 100, Anchorage, AK 99518

Ph: 907.565.4200 Mobile: 907.354.3769

Email: [ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)

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"22 CFR Part 125.4 (b) (9) applicable."

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**From:** Rosetta Alcantra <[ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)>  
**Sent:** Wednesday, September 23, 2015 9:23 AM  
**To:** Brenda Trefon  
**Subject:** 092315\_Kenaitze Indian Tribe Informal Section 106 letter  
**Attachments:** Project Map & Overview.pdf; Form Letter.pdf

Brenda,

Thank you for responding to my email regarding the Alaska LNG and the letter that was sent out last October. I have attached letter and the project map and overview. The letter was addressed to Rosie Tepp from the information I have. The Alaska LNG is currently gathering information about cultural resources in preparation for submitting the project application to the Federal Energy Regulatory Commission (FERC) in the third quarter of 2016. As the program continues to develop, they would like to have further discussions with the Kenaitze Indian Tribe regarding archaeological sites and sites of cultural importance, with the objective to avoid or minimize impacts to these resources.

In addition, the FERC sent out letters to initiate government-to-government consultation on May 20, 2015. This letter requested input on the environmental impacts associated with construction and operation of the Alaska LNG project. If you wish to participate in a government to government consultation, please contact FERC at your earliest convenience. The Alaska LNG looks forward to continued dialogue with you as the Project progresses.

FERC Contact Information:

Eric Howard

Phone: (202) 502-6263

Email: [eric.howard@ferc.gov](mailto:eric.howard@ferc.gov)

Again, thank you for the follow up and please don't hesitate to contact me if you have questions.

Regards,

Rosetta

**Rosetta Alcantra, President**

**E3 Environmental, LLC**

219 E. International Airport Rd., Suite 100, Anchorage, AK 99518

Ph: 907.565.4200 Mobile: 907.354.3769

Email: [ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)

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**From:** Brenda Trefon [<mailto:BTrefon@kenaitze.org>]

**Sent:** Tuesday, September 22, 2015 4:36 PM

**To:** Rosetta Alcantra <[ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)>

**Subject:** RE: Cultural Resources point of contact

Thanks Rosetta. Can you send the 106 letter to me? Also, if you send an e-mail and let me know there is a letter going out, or just send a copy by e-mail, I can let you know it was received. I always try to answer my e-mail, so if you don't hear back, please try it again. For now, I can attend any 106 meetings or follow up to send a response from the tribe.

Thanks for keeping in touch,

---

**From:** Rosetta Alcantra <ralcantra@E3Alaska.com>  
**Sent:** Thursday, September 24, 2015 1:29 PM  
**To:** doreen.lampe@inupiatgov.com  
**Subject:** 092415\_DLampe\_ICAS\_Alaska LNG Informal Section 106 follow up  
**Attachments:** Project Map & Overview.pdf; Form Letter.pdf

Dear Ms. Lampe,

I am following up on the attached letter which was sent out in October 2014 initiating informal Section 106 cultural resources consultation. Although the attachment is a form letter, I understand the original was addressed to your president, Mr. George Olemaun. The Alaska LNG is currently gathering information about cultural resources in preparation for submitting the project application to the Federal Energy Regulatory Commission (FERC) in the third quarter of 2016. As the program continues to develop, we will have further discussions with the Inupiat Community of the Arctic Slope.

In addition, the FERC sent out letters to initiate government-to-government consultation on May 20, 2015. This letter requested input on the environmental impacts associated with construction and operation of the Alaska LNG project. If you wish to participate in a government to government consultation, please contact FERC at your earliest convenience. The Alaska LNG looks forward to continued dialogue with you as the Project progresses.

**FERC Contact Information:**

Eric Howard

Phone: (202) 502-6263

Email: [eric.howard@ferc.gov](mailto:eric.howard@ferc.gov)

Please do not hesitate to contact me if you have questions.

Regards,

**Rosetta Alcantra, President**

**E3 Environmental, LLC**

219 E. International Airport Rd., Suite 100, Anchorage, AK 99518

Ph: 907.565.4200 Mobile: 907.354.3769

Email: [ralcantra@E3Alaska.com](mailto:ralcantra@E3Alaska.com)

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"22 CFR Part 125.4 (b) (9) applicable."



---

**From:** Rosetta Alcantra <ralcantra@E3Alaska.com>  
**Sent:** Thursday, September 24, 2015 1:41 PM  
**To:** cmonfor@salamatof.com  
**Subject:** 092415\_SNAI\_Alaska LNG Informal Section 106 Letter  
**Attachments:** Project Map & Overview.pdf; Form Letter.pdf

Dear Mr. Monfor,

I am following up on the attached letter which was sent out in October 2014 initiating informal Section 106 cultural resources consultation. Although the attachment is a form letter, I understand the original was addressed to your previous president, Penny Carty. The Alaska LNG is currently gathering information about cultural resources in preparation for submitting the project application to the Federal Energy Regulatory Commission (FERC) in the third quarter of 2016. As the program continues to develop, we would like to have further discussions with the Salamatof Native Association, Inc.

In addition, the FERC sent out letters to initiate government-to-government consultation on May 20, 2015. This letter requested input on the environmental impacts associated with construction and operation of the Alaska LNG project. If you wish to participate in a government to government consultation, please contact FERC at your earliest convenience. The Alaska LNG looks forward to continued dialogue with you as the Project progresses.

**FERC Contact Information:**

Eric Howard

Phone: (202) 502-6263

Email: [eric.howard@ferc.gov](mailto:eric.howard@ferc.gov)

Please do not hesitate to contact me if you have questions.

Regards,

Rosetta Alcantra

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Catherine Edwardsen	Alatna Tribal Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Elise Bergman	Allakaket Village Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Judy Evans	Baan O Yeel Kon Corporation	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Pete Williams	Ch'izhur, LLC	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Gary Harrison	Chickaloon Village Traditional Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Margaret Hayes	Din e'h LLC	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Randy Mayo	Dinyea Corporation	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
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RECIPIENT / SENDER			
To:	Organization	From:	Organization
Curtis McQueen	Eklutna Inc.	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Frank Thompson	Evansville Tribal Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Naomi Costello	Evansville, Inc.	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
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RECIPIENT / SENDER			
To:	Organization	From:	Organization
JoAnn Polston	Healy Lake Village	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Doreen Lampe	Inupiat Community of the Arctic Slope (ICAS)	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
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RECIPIENT / SENDER			
To:	Organization	From:	Organization
Vernon Stanford	Kenai Natives Association Inc.	Mr. Philip Brinkmann	Alaska LNG


MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
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RECIPIENT / SENDER			
To:	Organization	From:	Organization
Jaylene Peterson-Nyren	Kenaitze Indian Tribe	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG		
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<b>RECIPIENT / SENDER</b>			
<b>To:</b>	<b>Organization</b>	<b>From:</b>	<b>Organization</b>
Richard Porter	Knik Tribe	Mr. Philip Brinkmann	Alaska LNG

<b>MESSAGE</b>	
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>	



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<b>Project Name:</b>	Alaska LNG
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RECIPIENT / SENDER			
To:	Organization	From:	Organization
Chuck Quinlan	K'oyit'ots'ina Limited	Mr. Philip Brinkmann	Alaska LNG


MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Isaac Nukapigak	Kuukpik Village Corporation	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG		
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC		
<b>RECIPIENT / SENDER</b>			
<b>To:</b>	<b>Organization</b>	<b>From:</b>	<b>Organization</b>
Lillian Stone	Nagsragmiut Tribal Council	Mr. Philip Brinkmann	Alaska LNG

<b>MESSAGE</b>	
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>	

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Thomas Olemaun	Native Village of Barrow	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Rene Nicklie	Native Village of Cantwell	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Lee Stephan	Native Village of Eklutna	Mr. Philip Brinkmann	Alaska LNG


MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Matthew Rexford	Native Village of Kaktovik	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

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<b>Project Name:</b>	Alaska LNG		
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC		
<b>RECIPIENT / SENDER</b>			
<b>To:</b>	<b>Organization</b>	<b>From:</b>	<b>Organization</b>
Bessie Titus	Native Village of Minto	Mr. Philip Brinkmann	Alaska LNG

<b>MESSAGE</b>	
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>	



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		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Martha Itta	Native Village of Nuiqsut	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Harold Simon	Native Village of Stevens	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Arthur Standifer	Native Village of Tyonek	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Warren Harding	Nenana Native Association	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Greg Encelewski	Ninilchik Native Association	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
<p><b>Enclosed:</b></p> <p>Resource Report 1 and 10, Draft 2, June 2016</p> <p>Resource Report 11, Draft 2, August, 20016</p> <p>Resource Report 13 (GTP) Public,, Draft 2, August 2016</p> <p>Resource Report 13 (LNG) Public, Draft 2, August 2016</p>

	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Ivan Encelewski	Ninilchik Tribal Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Floyd Green	Rampart Traditional Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Chris Monfor	Salamatof Native Association Inc	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Carla Smith	Seth-De-Ya-Ah Corporation	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Donald Honea, Sr.	Tanana Chiefs Council	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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	TRANSMITTAL FORM	28-OCT-16
		PAGE 1 OF 1

<b>Project Name:</b>	Alaska LNG
<b>Subject:</b>	CD Copies of Resource Reports, Draft 2, Filed with FERC

RECIPIENT / SENDER			
To:	Organization	From:	Organization
Bart Garber	Toghotthele Corporation	Mr. Philip Brinkmann	Alaska LNG

MESSAGE
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Alaska Pipeline Service Company

APSC



P.O. Box 196660

ANCHORAGE, ALASKA 99519-6660 TELEPHONE (907) 787-8700

October 30, 2014

Charlie Kominas  
Alaska LNG Project  
3201 C Street, Suite 506  
Anchorage, Alaska 99503

Dear Mr. Kominas:

Thank you for the Alaska LNG Project introductory letter received September 29, 2014 regarding the FERC Pre-Filing process (Ref No.: USAI-PE-SGEIS-00-0004-0713). As you know, Alyeska Pipeline Service Company is the agent for the Trans Alaska Pipeline System owners who hold properties and rights-of-way along the first 400 miles of the Alaska LNG Project area. Also, in 2013 Alyeska entered into a Master Coordination and Reimbursement Agreement with ExxonMobil Alaska Production, Inc. about the Alaska LNG Project, which agreement will expire April 30, 2015.

Please note that Alyeska has not reviewed the proposed alignment depicted on the route maps and therefore does not endorse any specific, proposed Alaska LNG alignment where it is in the TAPS area. It may be time, however, during the FERC pre-filing period, to commission an analysis of TAPS operation and/or integrity concerns with the proposed Alaska LNG Project route. If you agree, we request your consideration of funding an Alyeska engineering study of the route from Deadhorse to the Manley Hot Springs Road crossing at Livengood. With your concurrence, we will prepare an estimate of cost and notify you in accordance with the Master Coordination and Reimbursement Agreement.

I can be reached at (907)787-8170 to discuss this matter further.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter Nagel", is written over a circular stamp.

Peter C. Nagel, SR/WA  
Land and Right-of-Way

Bureau of Land Management

BLM

ExxonMobil Development Company  
16945 Northchase Drive, DEV-GP4-498  
Houston, Texas 77060  
281-654-3289  
281-654-3212 Fax

Charlie Kominas  
Alaska South Central LNG Project  
Environmental, Regulatory and Land Manager



June 27, 2013

Ms. Nichelle W. Jacobson, Manager  
U.S. Bureau of Land Management  
Central Yukon Field Office  
1150 University Avenue  
Fairbanks, Alaska 99709-3844

RE: SCLNG 2013 Summer Field Studies – BLM Request for 2002 Cultural Resources GIS Data  
AA-093595 8151 (931); AA-093592 2801 (941)

Dear Ms. Jacobson:

The Alaska South Central Liquefied Natural Gas (SCLNG) Project Team appreciated meeting with staff from Bureau of Land Management's (BLM) Central Yukon Field Office on June 21, 2013. It was a very productive meeting. As you know, the purpose of the meeting was to discuss the request described in a June 18, 2013 BLM letter regarding our Cultural Resources Use Permit application for SCLNG's 2013 summer field studies cultural resource survey.

The intent of this letter is to provide the BLM requested digital GIS data supporting the report entitled "*Results of the Phase I Cultural Resources Survey of the proposed Alaska Gas Pipeline Project Area, Southern Route*" submitted to BLM in 2002 by URS Corporation and its contractor Northern Land Use Research-Alaska in support of the Alaska Gas Pipeline Project Team (AGPPT) proposal. This digital data includes pedestrian survey polygons and areas of previous shovel testing and surface collection and will be used to assist the BLM review of SCLNG's 2013 survey proposal.

We are pleased to inform you that the AGPPT Project has agreed to release the heritage archeology electronic GIS data as a courtesy and in the spirit of good faith assistance to accelerate BLM's issuance of the archaeological survey permit for SCLNG's summer field studies work. Please note, however, that these files are considered to be business confidential and we request that BLM maintain them as such.

Should you have any questions regarding this data, please do not hesitate to call me at (985) 259-0036 or Ben Wood at (907) 929-4113 to discuss. I am greatly appreciative of the assistance that BLM staff has provided on behalf of the SCLNG Project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Charlie Kominas".

Charlie Kominas  
Alaska South Central LNG Project  
Environmental, Regulatory and Land Manager  
For and on behalf of ExxonMobil Alaska Production Inc.

cc: Stephen Fusilier (BLM)



ExxonMobil Development Company  
16945 Northchase Drive, DEV-GP4-498  
Houston, Texas 77060  
281-654-3289  
281-654-3212 Fax

Charlie Kominas  
Alaska South Central LNG Project  
Environmental, Regulatory and Land Manager




July 1, 2013

Doc. No. L-AKE-EDHO-BLAK-13-0014

Mr. Robert Lloyd  
Bureau of Land Management  
222 W. 7<sup>th</sup> Avenue  
Anchorage, Alaska 99513-7504

RE: Alaska South Central LNG Project  
Description of Work Activities for Next Fiscal Year  
BLM Serial No. AA-93952

Dear Mr. Lloyd:



This letter addresses Section 4.1 of the Cost Reimbursement Agreement Between ExxonMobil Alaska Production Inc. and Bureau of Land Management Alaska State Office ("Agreement") for the Alaska South Central LNG (SCLNG) Project to advise the Bureau of Land Management (BLM) of any work planned during the next fiscal year (October 1, 2013 to September 30, 2014). At this time, the SCLNG Project plans to complete the various reports required by BLM and other agencies following the 2013 summer field studies program and begin planning for potential future field studies. The SCLNG Project will inform the BLM as soon as additional work scope is confirmed for the next fiscal year so that the agency may further enhance its Initial Work Plan and budget estimate as described in the Agreement.

If there are any questions or you require further information, please feel free to call me at (281) 654-3289 or Ben Wood at (907) 929-4113.

Sincerely,

Charlie Kominas  
Alaska South Central LNG Project  
Environmental, Regulatory and Land Manager  
For and on behalf of ExxonMobil Alaska Production Inc.

CC: Stephen L. Fusilier (BLM)





**ExxonMobil Development Company**  
16945 Northchase Drive, DEV-GP4-498  
Houston, Texas 77060  
832-624-2816  
281-654-3212 Fax

**Charlie Kominas**  
Alaska LNG Project  
Environmental, Regulatory and Land Manager



December 9, 2013

L-AKE-EDHO-BLAK-0017

Mr. Robert Lloyd  
Chief, Branch of Lands and Realty  
Bureau of Land Management  
222 West 7<sup>th</sup> Ave  
Anchorage, Alaska 99513-7504

Subject: Alaska LNG Project  
Description of Work Activities for Fiscal Year 2014  
BLM Application Serial No. AA-93952



Dear Mr. Lloyd:

This letter addresses the requirement in Section 4.1 of the Cost Reimbursement Agreement between ExxonMobil Alaska Production Inc. and Bureau of Land Management Alaska State Office, for the Alaska LNG Project, to advise the Bureau of Land Management (BLM) of any work planned during the next fiscal year (October 1, 2013 to September 30, 2014).

In October, the Alaska LNG Project selected a site in the Nikiski area on the Kenai Peninsula as the lead site for the proposed natural gas liquefaction plant and terminal. Pipeline routing definition work is ongoing. A revised ***Application for Transportation and Utility Systems and Facilities on Federal Lands*** will be submitted in the second quarter of 2014 following finalization of the pipeline route.

In addition, the Alaska LNG Project plans to conduct a 2014 Field Study Program during the period between approximately April 1 and October 31, 2014. The primary objective is to collect the data necessary to support environmental reporting and permitting for the Project. The focus of the studies will be along the pipeline route from Livengood to the Nikiski LNG plant site. These studies may include the following disciplines: Cultural Resources; Stream Fish; Hydrology; Raptors; Ambient Noise Monitoring; Contaminated Sites; Wetlands (mapping and field verification); Vegetation (mapping and field verification); Sediment Sampling; and Air Quality.



An ExxonMobil Subsidiary

The majority of the 2014 Field Study program will be conducted on State- and privately-owned lands. However, there may be activities on BLM lands. Thus, we anticipate a level of support from the BLM similar to 2013 which included the processing of Temporary Use Permits and a Permit for Archaeological Investigations on federal lands. In the event the Project initiates the Federal Energy Regulatory Commission (FERC) pre-file process, coordination activities with FERC and federal and state agencies may be needed in support of required pre-filing documents.

If there are any questions or you require further information, please feel free to contact me at (832) 624-2816 or Ben Wood at (907) 929-4113.

Sincerely,



Charlie Kominas  
Alaska LNG  
Environmental, Regulatory and Land Manager  
For and on behalf of ExxonMobil Alaska Production Inc.

cc: Steve Butt



**Alaska LNG Project**  
16945 Northchase Drive, DEV-GP4  
Houston, Texas 77060

Ref No.: USAKE-EX-SRZZZ-00-0003

August 13, 2014

Robert LLOYD  
Bureau of Land Management  
Program Manager – Alaska Land Transfer  
222 W. 7th Avenue #13  
Anchorage, Alaska 99513

**Re: Review of Cultural Resources Reports Submitted by the Alaska Pipeline Project and the Alaska LNG Project**

Dear Mr. Lloyd:

On behalf of the Alaska LNG Project (Project), this letter and its attachments seek your concurrence regarding data to be used in the regulatory approval process for the Project. As discussed in previous meetings with the Bureau of Land Management (BLM), a considerable body of work has been compiled for portions of the proposed Project footprint north of Livengood, Alaska, including data that is common to a previous gas project (Alaska Pipeline Project). The available body of work includes information gathered by the previous project as well as information gathered during supplemental surveys conducted by the Project in 2013. To date you have received the following reports for the proposed Project footprint north of Livengood:

Reference No.	Title	Year
USAKE-UR-SRZZZ-00-0020_B 2013 Report	2013 Phase I Cultural Resource Report, Archaeological Survey and Documentation	2013
USAG-UR-SRZZZ-000030	Phase I Cultural Resources Overview and Survey Report for the Alaska Pipeline Project, Prudhoe Bay, to the Alaska, United States-Canada Border, 2010-2011	2012
USAG-UR-SRZZZ-000010	2010 Cultural Resource Field Study Results, Phase I: Identification Cultural Resource Survey of the Alaska Pipeline Project. Supplemental Report to OHA Permit No. 2010-17	2011

Some of the previously gathered data are no longer applicable or within the proposed Alaska LNG Project footprint; therefore the Project has developed and enclosed the following: an overview of the Cultural Resources Program to explain program objectives and summarize study results (Attachment A); a site tracking table summarizing the cultural resource sites located within a 300-foot-wide corridor centered on the potential Alaska LNG Mainline Pipeline

centerline and the Point Thomson Pipeline centerline (Attachment B); and two mapbooks (one for the Mainline Pipeline and one for the Point Thomson Pipeline) illustrating the locations of the cultural resource sites listed in the summary table. These mapbooks also include sites outside of the study corridor (Attachment C).

The Project requests BLM's review and endorsement of this data set so that it may be used in the upcoming Federal Energy Regulatory Commission application and resulting Environmental Impact Statement. If you have any questions or require further information, please contact Adrienne Rosecrans at (832) 624-2722.

Sincerely,



Ruben Medrano  
Alaska LNG  
Regulatory Lead  
For and on behalf of ExxonMobil Alaska LNG LLC

**Enclosures**

Attachment A: Cultural Resources Program Overview

Attachment B: Site Tracking Table

Attachment C: Alaska LNG Mainline Cultural Resources Mapbook, Point Thomson Pipeline  
Cultural Resources Mapbook

cc: Project files



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: Ref No.: LT-AKE-PT-0104-002

October 27, 2014

Dr. Robert King, BLM State Archaeologist  
U.S. Department of the Interior, Bureau of Land Management, Alaska State Office  
222 West 7<sup>th</sup> Ave., #13  
Anchorage, AK 99513-7504

**Subject:** Request for Informal Consultation under Section 106 of the National Historic  
Preservation Act  
FERC Docket No.: PF14-21-000

Dear Dr. King:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Alaska LNG Project.

**Alaska LNG Project Overview**

The Alaska LNG Project Participants are proposing to construct one integrated liquefied natural gas (LNG) project with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular the Point Thomson Unit and Prudhoe Bay Unit production fields on the Alaska North Slope for export in foreign commerce. The proposed project includes the construction of a liquefaction facility in south central Alaska, an approximately 800-mile mainline gas pipeline, a gas treatment plant on the North Slope, and gas transmission lines connecting the gas treatment plant to the Point Thomson Unit and Prudhoe Bay Unit fields. The mainline gas pipeline will include at least five off-take points to allow for the opportunity for future in-state deliveries of natural gas. .

Enclosed with this letter are a general project map and a project overview diagram reflecting the proposed facilities and their planned locations. Additional information on the project can be found at [www.ak-Ing.com](http://www.ak-Ing.com).

FERC authorizations are required to construct and operate these facilities. The Project Participants are targeting to file a formal application with the FERC in September 2016. FERC authorizations for the project and commencement of construction are anticipated in the 2018 – 2019 timeframe. Pursuant to this schedule, facilities would begin operating in the 2024 – 2025 timeframe.

Proposed facilities will be located in the North Slope Borough, Yukon-Koyukuk Census Area, Fairbanks North Star Borough, southeast Fairbanks Census Area, and the Kenai Peninsula Borough.

#### **FERC Pre-filing Process**

The FERC will be the lead federal agency responsible for implementation of the National Environmental Policy Act (NEPA), and the National Historic Preservation Act (NHPA; 16 USC § 470 as amended). Pursuant to 36 CFR 800; and at 18 CFR Parts 380.12, 380.14, and Appendix A to Part 380; and pursuant to the FERC's *Guidelines for Reporting on Cultural Resources Investigations for Pipelines* (December 2002), Project Participants are asked to consult with the State Historic Preservation Office, Alaska Native Organizations, and/or land-managing agencies as early as possible in the project planning.

Project Participants do not represent the FERC in terms of government-to-government consultations with Alaska Native Tribes. The FERC has an established policy for consulting with Native American Tribes, articulated in Order 635, *Policy Statement on Consultations with Indian Tribes in Commission Proceedings* issued July 23, 2003. The FERC will initiate direct consultations with Tribes when it issues its Notice of Intent to Prepare an Environmental Impact Statement (NOI). For all major projects, after the NOI is issued, the FERC will also write letters to Alaska Native Tribes that may attach religious or cultural importance to historic properties in the area of potential effect, and follow up Tribal contacts with emails, telephone calls, or meetings. Feel free to discuss any concerns directly with the FERC archaeological staff by emailing or calling Lori Boros, FERC Archaeologist at 202-502-8046 (email: [Lori.boros@ferc.gov](mailto:Lori.boros@ferc.gov)).

Project Participants have met numerous times with you and your staff to discuss field survey methodologies for the 2013 and 2014 field seasons, a process for review and acceptance of prior project data, and the Section 106 process in general. However, no formal consultation has been initiated with the BLM regarding the project; therefore, with this letter Project Participants, acting as the FERC's designated non-federal representative for purposes of complying with Section 106 of the NHPA, respectfully requests your input regarding compliance with the relevant historic preservation laws. Project Participants understand that the BLM is the lead federal agency responsible for issuing the Right-of-Way Grant for the Project and will coordinate that process with the other federal land managing agencies affected by the Project. However, at this time, no other federal land managing agency is affected by the Project.

On behalf of the Project Participants we appreciate your assistance with this request. If you have any questions, please contact me at 832-624-2816 or by email at [Charlie.kominas@exxonmobil.com](mailto:Charlie.kominas@exxonmobil.com).

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Lori Boros, FERC  
Jim Martin, FERC  
Judith E. Bittner, Alaska Office of History and Archaeology  
Project File



**Alaska LNG Project**

3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000013-00

May 15, 2015

Mr. Bill Hedman  
Archaeologist  
BLM Central Yukon Field Office  
1150 University Avenue  
Fairbanks, AK 99709

**Re: Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations**

Dear Mr. Hedman:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 field work plan detailing proposed methods for determining National Register of Historic Places (NRHP) eligibility at specific, select archaeological sites on BLM lands within the project footprint.

Upon your review of the plan, we would like to arrange a meeting to seek your input and agreement with our proposed methods.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

  
Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead





**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000012-000

May 15, 2015

Dr. Robert King  
BLM State Archaeologist  
222 West 7<sup>th</sup> Avenue  
Anchorage, AK 99513

**Re: Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations**

Dear Dr. King:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 field work plan detailing proposed methods for determining National Register of Historic Places (NRHP) eligibility at specific, select archaeological sites on BLM lands within the project footprint.

Upon your review of the plan, we would like to arrange a meeting to seek your input and agreement with our proposed methods.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

  
Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAI-PE-SALTR-00-000020-000  
Confidential

June 25 2015

Alan Peck  
Soil, Water and Air Program Lead  
BLM State Office  
222 W 7th Ave. #13  
Anchorage, AK 99513

**Re: Alaska LNG air quality modeling approach for Federal Conservation Units**

Dear Alan

The Alaska LNG Project plans to construct several stationary sources of air emissions as part of its plan to construct an integrated project with interdependent facilities for the purpose of liquefying natural gas for export and opportunity for in-state delivery. This letter and supporting documentation, was developed in response to a meeting between the Alaska LNG Project team, the Federal Energy Regulatory Commission (FERC), Federal Land Managers (FLM), and the Alaska Department of Environmental Conservation on April 21, 2015.

The enclosed memorandum and supporting information, outlines Alaska LNG's proposed air dispersion modeling approach for stationary sources proposed to be constructed as part of the Alaska LNG Project, including the Gas Treatment Plant (GTP) on the North Slope, compressor stations along the proposed pipeline, and the Liquefaction Facility along Cook Inlet. The approach addresses the modeling and air quality-related analyses that would be required to support the review of the project under the federal National Environmental Policy Act (NEPA). This approach does not address air quality permitting required by agencies that implement the Clean Air Act, although the analyses that are prepared in support of those applications also would be used to support the NEPA process. In evaluating impacts from proposed project sources, this modeling approach considers Federal Conservation Units (Class I and sensitive Class II areas) as nominated by the National Park Service and U.S Fish and Wildlife Service. The U.S. Bureau of Land Management chose not to nominate any Federal Conservation Units as sensitive Class II areas.

Since this modeling approach will serve as the basis of the air quality impact assessment to be provided in Resource Report 9 as part of the FERC application, the Alaska LNG Project requests agency comments by July 15, 2015.

Please contact our Environmental Impact Statement Advisor, Norman Scott, at 907-929-4129 or by e-mail at [norm.scott@exxonmobil.com](mailto:norm.scott@exxonmobil.com) if you have any questions.

Sincerely,



Karen Wuestenfeld  
EIS Lead



**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000019-000

July 13, 2015

Nichelle Jacobson  
Field Manager  
BLM Central Yukon Field Office  
1150 University Avenue  
Fairbanks, AK 99709

**Re: Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations**

Dear Ms. Jacobson:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 field work plan detailing proposed methods for determining National Register of Historic Places (NRHP) eligibility at specific, select archaeological sites within the project footprint. A copy of this plan was provided to Mr. Bill Hedman and Dr. Robert King via transmittal dated May 15, 2015. The plan was subsequently discussed in a meeting with Bill Hedman and Earle Williams of BLM on June 10, 2015 (minutes attached). We are requesting written concurrence with the proposed Phase II protocols by the BLM at your earliest convenience.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "Karen Wuestenfeld".

Karen Wuestenfeld  
Alaska LNG Project  
EIS Team Lead  
For and on behalf of ExxonMobil Alaska LNG, LLC

Enclosures



# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
Alaska State Office  
222 West Seventh Avenue, #13  
Anchorage, Alaska 99513-7504  
<http://www.blm.gov>

In Reply Refer To:  
AA-93592 (2880)  
emw (940)

Karen Wuestenfeld  
Alaska LNG Project  
3201 C Street, Suite 506  
Anchorage, AK 99503

Dear Ms. Wuestenfeld:

The BLM has reviewed the Memorandum of Modeling Approach for Federal Conservation Units for the Alaska LNG Project, dated June, 2015. Overall, the memo appears to present a good roadmap for the dispersion modeling. We do find a few areas in need of correction or further information, as detailed below.

1. GTP should be identified in parenthesis next to Gas Treatment Plant in Tables 1 and 2 and spelled out in the GTP column in Table 3.
2. In Table 3, in the Design Capacity/Total Power row please indicate whether the power is input or output.
3. In Table 3, for Surface UA Meteorology an explanatory footnote should be added for 'MAKEMET'.
4. Footnote 7 is missing from (not indicated anywhere in) Table 3.
5. In Table 3, items such as Denali(183), Gates(9), Yukon Flats(16), etc. need explanations. What are the numbers in parentheses?
6. To address Air Quality Related Values (AQRVs) for the Gas Treatment Plant (GTP), why would there be no Visibility modeling (VISCREEN/PLUVUE) or Deposition modeling (AERMOD) performed when the GTP is likely to need a Prevention of Significant Deterioration (PSD) permit and is located only 94 km (58 miles) from the Arctic National Wildlife Refuge?
7. There appear to be several sources in Table 3 w/in 300 km of a Class I/sensitive Class II area. Why are some of the sources (GTP, Comp. Station 10, Heater #1 and Station #16/Heater #2) not being modeled for visibility and deposition in the near-field?

8. Table 3, footnote #4 - This is irrelevant for NEPA purposes; therefore this source should be modeled.
9. Why is MAKEMET being used? AERMET is the appropriate met pre-processor for use with AERMOD.

If you have any questions regarding our comments please do not hesitate to contact me. I can be reached email at [elwillia@blm.gov](mailto:elwillia@blm.gov) or by telephone at (907) 271-5762.

Sincerely,

Earle M. Williams  
Natural Gas Pipelines Project Manager



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000023-000

July 20, 2015

Randy Goodwin, VRM Lead  
Bureau of Land Management  
1150 University Ave.  
Fairbanks, AK 99709

**Re: Visual/Aesthetics Study Work Plan**

Dear Mr. Goodwin:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 study plan to conduct surveys that identify visually sensitive resources that may be impacted by the construction and operation of the Alaska LNG project. The goal of this study is to describe existing visual conditions in the Project Planning Area in support of the Federal Energy Research Commission (FERC) application and subsequent Bureau of Land Management (BLM) and State Pipeline Coordinator's Office (SPCO) permits. In addition to identifying visual viewsheds, the study will address those areas of high recreational use that could be sensitive to changes from construction and operation.

We are available to walk through the plan components with the BLM team at your earliest convenience. If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead  
For and on behalf of ExxonMobil LNG, LLC

Enclosure

cc: Earle Williams/BLM (no attachment)  
Jim Martin/FERC (with attachment)  
Project Files





United States Department of the Interior  
BUREAU OF LAND MANAGEMENT  
Central Yukon Field Office  
1150 University Avenue  
Fairbanks, Alaska 99701  
<http://www.blm.gov>



*In Reply Refer To:*  
AA-93592 (2881)  
032 wh

Ms. Caryn Rea  
Sr. EIS Advisor  
AK LNG Project  
3201 C Street, Suite 505  
Anchorage, AK 99503

Dear Ms. Rea:

ExxonMobil Alaska LNG LLC requested and received a permit for archaeological investigations on Bureau of Land Management lands in the Umiat and Fairbanks Meridians on 12 May, 2015 (Permit AA-094006). Following this approval Northern Land Use Research Alaska LLC requested approval on behalf of ExxonMobil Alaska LNG LLC for fieldwork authorization for specific archaeological survey and testing on lands managed by the Central Yukon Field Office. The exact nature of testing and sites involved was presented to this office for approval. After review it was determined that the proposed testing, which was largely limited to systematic shovel testing at select sites, would result in unnecessary impacts to site CHN-00018. Through consultation with Central Yukon Field Office archaeologist Bill Hedman, it was determined that only very minimal sub-surface testing within the sod layer would be permitted at this sensitive historic site; these changes were reflected in a new draft of proposed Phase II protocols and was approved for fieldwork by this office on 22 May 2015. A teleconference to again discuss the aforementioned BLM approval was hosted by ExxonMobil on 10 June 2015 and attended by Mr. Hedman and several members of the AK LNG team; no additional concerns were raised by BLM.

The methods described in the approved Request for Fieldwork fall under our category of casual use, and therefore do not require a permit from our field office. Furthermore, this action is covered under Departmental Categorical Exclusion 1.6, i.e., "Nondestructive data collection, inventory (including field, aerial, and satellite surveying and mapping), study, research, and monitoring activities," and as such does not require any further NEPA review.

Our findings of casual use and Departmental CX 1.6 are based upon the proposed activities and locations specifically outlined in your application, specifically pedestrian surveying and recording for cultural resources with limited testing (i.e., select standard shovel test pits at specific topographic locales). If you need to work outside of these specifics, in either the proposed field work (e.g., test excavations; camping; ATV access) or location, please contact us for approval. If you have questions, feel free to contact either myself (474-2356) or Bill Hedman, Archaeologist (474-2375), at any time.



Sincerely,

A handwritten signature in black ink, appearing to read "Nichelle Jacobson". The signature is fluid and cursive, with a large initial "N" and a long, sweeping underline.

Nichelle Jacobson  
Manager, Central Yukon Field Office  
BLM, Fairbanks District Office



# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
Central Yukon Field Office  
222 University Avenue  
Fairbanks, Alaska 99709-3816  
<http://www.blm.gov/ak>

In Reply Refer To:  
2880 (940)  
AA-93592

**MAY 20 2016**

Mr. Charlie Kominas  
ExxonMobil Alaska LNG LLC  
3201 C Street, Suite 506  
Anchorage, AK 99503

Dear Mr. Kominas:

As you may know, on December 4, 2015, the President signed into law the Fixing America's Surface Transportation (FAST) Act. Title 41 of the FAST Act (hereafter FAST-41) created a new governance structure, set of procedures, and funding mechanisms to improve the timeliness, predictability, and transparency of the Federal permitting and environmental review process for major infrastructure projects (i.e., "covered projects") across a broad range of sectors and project types (the full text of Title 41 can be viewed here: <https://goo.gl/ts1mCt>).

FAST-41 defines "covered projects" as those that require authorization or environmental review by a Federal agency involving construction of infrastructure for a covered sector, are subject to the National Environmental Policy Act of 1969 (NEPA), are likely to require a total investment of more than \$200,000,000, and do not qualify for abbreviated authorizations or environmental review processes. They may also include construction projects in covered sectors that are subject to NEPA for which, due to their size and complexity, the applicable Federal agencies determine the FAST-41 coordination process and oversight would be beneficial.

One of the first actions that FAST-41 requires agencies on the newly-established Federal Permitting Improvement Steering Council (hereafter Council) to take is to establish an inventory of all existing "covered projects" that have pending Federal environmental reviews or authorizations by June 1, 2016. Agencies must then create "a specific and searchable entry" for each project on the Federal Infrastructure Permitting Dashboard ([www.permits.performance.gov](http://www.permits.performance.gov)) by June 15, 2016.

Your Alaska LNG project has been identified as a potential "covered project" because (1) it is subject to NEPA and (2) requires a total investment of more than \$200,000,000 and does not qualify for an abbreviated authorization or environmental review process.

The following information, which we have generated from previously-provided project documentation, will be publicly reported for "covered projects":

#### Project Information

- Title
- Sector (e.g., Renewable Energy Generation)
- Type (e.g., Solar, Wind, Geothermal, etc.)
- Description
- Status (In Progress/Delayed/Paused)
- Website (if available)
- Is Total Estimated Project Cost More than \$200 Million? (Y/N)
- Location: City, County, and State(s)

#### Schedule Information

- Date Application Received by Lead Agency
- Date Application Accepted for Review by Lead Agency
- Draft Environmental Assessment (EA) Complete (If applicable)
- Final EA Complete \*
- Date of FONSI \*
- Draft Environmental Impact Statement (EIS) Published \*
- Final EIS Published \*
- Date of ROD \*
- Additional Agency-Specific Actions ^

\* If applicable; ^ by August 15

#### Lead Agency Information

- Agency/Department
- Bureau/Mode
- POC Name
- POC Title
- POC Email

#### Project Sponsor Information

- Project Sponsor
- Sponsor POC

If you believe any of this information represents proprietary or confidential business information, please notify me before May 27, 2016, with your reasons, and we will make all reasonable efforts to ensure such information is not made public. Otherwise, all of the above project information for existing "covered projects" will be posted on the Dashboard no later than June 15, 2016.

In addition, for any project for which a Draft EA (if applicable), final EA, or draft EIS has not yet been released, the agencies involved in the review of these projects will be required to develop a detailed Coordinated Project Plan, including a detailed review schedule for public involvement and completion of all required Federal environmental reviews and authorizations, and to publicly post these documents and related project information within sixty days after the initial project information listed above is posted to the Dashboard. Project sponsors are expected to cooperate throughout the Federal environmental review and authorization process.

These early-stage projects would receive the following benefits:

- Use of clear procedures to agree upon, modify, and resolve issues with project timelines
- Greater transparency into the Federal permitting process and schedule through tracking on the public Federal Permitting Dashboard
- Enhanced oversight from the new Council
- Potential for adoption of State environmental reviews
- Limitation of lawsuits on authorizations and environmental reviews to those filed not later than 2 years after the date of a Federal Register notification of the final approval and,
- Special consideration for the judicial review of actions seeking temporary restraining orders or preliminary injunction against the "covered project"

Lastly, note that Section 41009 of the FAST Act allows agencies to issue new regulations to establish a "fee structure for project proponents to reimburse the United States for reasonable costs incurred in conducting environmental reviews and authorizations for covered projects." OMB is currently developing the guidance that will inform these regulations, and there will be no fees assessed on "existing" "covered projects" at this time.

Thank you for cooperation, and we look forward to working with you in this new process. If you have any questions regarding FAST-41 and AGDC's pipeline right-of-way application, please do not hesitate to contact Earle Williams, Natural Gas Pipelines Project Manager. Mr. Williams can be reached by email at [elwillia@blm.gov](mailto:elwillia@blm.gov) or by telephone at (907) 271-5762.

Sincerely,



Timothy J. La Marr  
Field Manager  
Central Yukon Field Office

cc: FM, Glennallen Field Office

**Joseph, Claire E**

---

**From:** Joseph, Claire E  
**Sent:** Wednesday, June 08, 2016 2:57 PM  
**To:** Williams, Earle <e1willia@blm.gov> (e1willia@blm.gov)  
**Cc:** Zhang, Michael M; Barnett, Sandra /SEC; Scott, Norm /SEC  
**Subject:** FW: Transmittal of engineering reports for Alaska LNG and TAPS

Earle – please let me know if you have any troubles downloading the engineering reports (at link below). Thanks. Looking forward to our meeting on Monday. Thanks, Claire

Claire Joseph  
Alaska LNG Project  
Office: +1 832 625 6294  
Cell: +1 832 920 4686

---

**From:** [mail@sf-notifications.com](mailto:mail@sf-notifications.com) [<mailto:mail@sf-notifications.com>]  
**Sent:** Wednesday, June 08, 2016 2:56 PM  
**To:** Joseph, Claire E  
**Subject:** Transmittal of engineering reports for Alaska LNG and TAPS



Claire,

Claire Joseph has sent you files.

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Note From Claire:

Earle - please find at these links the Alaska LNG / TAPS engineering reports. Please let me know if you have any troubles downloading these reports. Thanks, Claire

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**Joseph, Claire E**

---

**From:** noreply@sf-notifications.com on behalf of ShareFile Notifications (No Reply)  
 <noreply@sf-notifications.com>  
**Sent:** Wednesday, June 08, 2016 3:59 PM  
**To:** Joseph, Claire E  
**Subject:** ShareFile Activity Notification



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**User:** Earle Williams [e1willia@blm.gov] (Bureau of Land Management)

**Name:** TAPS Impact Study Blasting Analysis Report - BLM.pdf

**Size:** -- • **Downloaded:** 6/8/16 3:58p

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**Name:** TAPS Impact Study Basis Report - BLM.pdf

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**Name:** TAPS Impact Study Cathodic Protection Interferen

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**Alaska LNG Project**

10613 West Sam Houston Parkway N., Suite 500  
Houston, Texas 77064

June 9, 2016

Mr. Timothy J. La Marr  
Field Manager, Central Yukon Field Office  
Bureau of Land Management  
222 University Avenue  
Fairbanks, Alaska 99709-3816

Re: 2880 (940) AA-93592

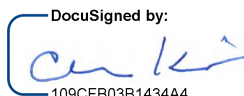
Dear Mr. La Marr:

In response to your letter dated May 20, 2016 regarding the the Alaska LNG Project (Project) being identified as a potentially "covered project" under Title 41 of the Fixing America's Surface Transportation (FAST) Act, the Project has developed an Attachment A to this letter providing specific responses regarding:

- Project Information
- Schedule Information
- Lead Agency Information
- Project Sponsor Information

Please review at your convenience and should you have questions, please contact Matthew Horneman at (907) 929-4132 or via email at [matthew.e.horneman@exxonmobil.com](mailto:matthew.e.horneman@exxonmobil.com)

Sincerely,

DocuSigned by:  
 June 9, 2016  
109CFB03B1434A4...

**Charlie Kominas**

Alaska LNG Safety, Security, Health, and Environmental Manager  
ExxonMobil Development Company  
For and on behalf of ExxonMobil Alaska LNG LLC

cc: Earle Williams, BLM Alaska  
Phillip Brinkman  
Matthew Horneman  
David Sinclair

Attachments:

Attachment A

# Attachment A

## Project Information

- **Title:** Alaska LNG Project
- **Sector:** Energy
- **Type:** Natural Gas
- **Description:** The Project includes the following: a liquefaction facility (Liquefaction Facility) in Southcentral Alaska; an approximately 800-mile, 42-inch diameter gas pipeline (Mainline); a gas treatment plant (GTP) on the North Slope; a gas transmission line connecting the GTP to the PTU gas production facility (PTU Gas Transmission Line or (PTTL)); and a gas transmission line connecting the GTP to the PBU gas production facility (PBU Gas Transmission Line or PBTL). All of these facilities are essential to export natural gas in foreign commerce.
- **Status:** In Progress
- **Website:** [www.ak-lng.com](http://www.ak-lng.com)
- **Is Total Estimated Cost More than \$200 Million?** Yes
- **Location:** Rural Alaska from the North Slope (Point Thomson and Prudhoe Bay) to Nikiski, Alaska. Boroughs crossed include: North Slope Borough, Yukon-Koyukuk Census Area, Fairbanks North Star Borough, Denali Borough, Matanuska Susitna Borough, Kenai Peninsula Borough.

## Schedule Information

- **Date Application Received by Lead Agency:** TBD
- **Date Application Accepted for Review by Lead Agency:** TBD
- **Draft Environment assessment (EA) Complete:** TBD
- **Final EA Complete:** TBD
- **Date of FONSI:** TBD
- **Draft Environmental Impact Statement (EIS) Published:** TBD
- **Final EIS Published:** TBD
- **Date of ROD:** TBD
- **Additional Agency-Specific Actions:** None

## Lead Agency Information

- **Agency/Department:** Federal Energy Regulatory Commission (FERC)
- **Bureau/Mode:** Office of Energy Project (OEP)
- **POC Name:** James Martin
- **POC Title:** Chief, Gas Branch 3
- **POC Email:** JAMES.MARTIN@FERC.GOV

## **Project Sponsor Information**

- **Project Sponsor(s):** Alaska Gasline Development Corporation (AGDC), BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, and ExxonMobil Alaska LNG LLC (EMALL)
- **Sponsor POC:** Charlie Kominas

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Charlie Kominas  
charlie.kominas@exxonmobil.com  
SSHE Project Manager  
ExxonMobil Viewers

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U.S. Department of Agriculture  
Chugach National Forest  
CNF

# Alaska LNG

Alaska LNG Project  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAI-PE-SALTR-00-000020-000  
Confidential

June 25 2015

Deyna Kuntzsch  
Chugach National Forest  
U.S Department of Agriculture  
161 East 1<sup>st</sup> Avenue, Door #8  
Anchorage, AK 99501

**Re: Alaska LNG air quality modeling approach for Federal Conservation Units**

Dear Deyna

The Alaska LNG Project plans to construct several stationary sources of air emissions as part of its plan to construct an integrated project with interdependent facilities for the purpose of liquefying natural gas for export and opportunity for in-state delivery. This letter and supporting documentation, was developed in response to a meeting between the Alaska LNG Project team, the Federal Energy Regulatory Commission (FERC), Federal Land Managers (FLM), and the Alaska Department of Environmental Conservation on April 21, 2015.

The enclosed memorandum and supporting information, outlines Alaska LNG's proposed air dispersion modeling approach for stationary sources proposed to be constructed as part of the Alaska LNG Project, including the Gas Treatment Plant (GTP) on the North Slope, compressor stations along the proposed pipeline, and the Liquefaction Facility along Cook Inlet. The approach addresses the modeling and air quality-related analyses that would be required to support the review of the project under the federal National Environmental Policy Act (NEPA). This approach does not address air quality permitting required by agencies that implement the Clean Air Act, although the analyses that are prepared in support of those applications also would be used to support the NEPA process. In evaluating impacts from proposed project sources, this modeling approach considers Federal Conservation Units (Class I and sensitive Class II areas) as nominated by the National Park Service and U.S Fish and Wildlife Service. The U.S. Bureau of Land Management chose not to nominate any Federal Conservation Units as sensitive Class II areas.

Since this modeling approach will serve as the basis of the air quality impact assessment to be provided in Resource Report 9 as part of the FERC application, the Alaska LNG Project requests agency comments by July 15, 2015.

Please contact our Environmental Impact Statement Advisor, Norman Scott, at 907-929-4129 or by e-mail at [norm.scott@exxonmobil.com](mailto:norm.scott@exxonmobil.com) if you have any questions.

Sincerely,

  
Karen Wuestenfeld  
EIS Lead



File Code: 2580  
Date: July 30, 2015

Karen Wuestenfeld  
Alaska LNG Project  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Dear Karen,

We have reviewed the Memorandum: Modeling Approach for Federal Conservation Units dated June 2015. In general the approach outlined is logical, but lacks sufficient specificity for us to offer formal concurrence on. Please follow up with a more detailed modeling protocol to further elaborate on the following areas:

- AERMOD
  - Meteorological data
    - Why MAKEMET for some areas, observations for others?
    - Length of record of surface and upper air data
    - Sources of meteorological data
    - Procedures for accounting for missing data
  - Surface characteristics
    - How will land use/land cover (LU/LC) characteristics be accounted for in AERMET?
    - What source(s) of LU/LC will be used?
  - Receptor placement
  - Emission rates
    - How calculated
    - Initial NO<sub>2</sub>/NO<sub>x</sub> ratios, and sources of where information obtained
  - Source information
    - Source release information
      - Stack heights, diameters, flow rates or exit velocities, temperatures for point sources
      - Characteristics for area and/or volume sources and justification of characteristics
      - Emission scalars if some source operations are intermittent
  - Versions of AERMET and AERMOD to be used
  - Model control options to be employed for both AERMET and AERMOD
    - How will deposition be handled with AERMOD? The Forest Service has developed specific guidance on use of AERMOD for deposition and recommends these procedures be followed. These will be supplied upon request.
- CALPUFF
  - Meteorological fields development
    - Information on sources of MM5/WRF data including



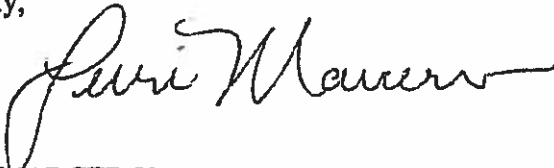


- Domain configuration (horizontal/vertical)
  - Physics options employed
  - Statistical performance evaluation documentation
- Will CALMET be used to develop meteorological fields? The Forest Service recommends that the Mesoscale Model Interface Program (MMIF) be used in lieu of CALMET.
  - If so, protocol should identify the following:
    - Model control options
    - Meteorological observations (locations, length of record, etc)
    - Procedures for accounting for missing data (both surface and upper air)
- Dispersion model setup
  - Same information needs under source information sub-bullet above
  - Model control options
  - Receptor grid development (note that many sensitive Class II areas are likely not in the NPS Class I receptor database commonly used for AQRV modeling for CALPUFF).
- Post processing
  - General Information on versions to be used
  - Will POSTUTIL be employed for PNO3/HNO3 rebalance?
  - CALPOST settings for both visibility and deposition
- VISCREEN/PLUVUE
  - Requires additional information regarding distance from source to areas, view angles, etc.
  - The Forest Service developed a modified version of VISCREEN to account for variable NO2/NOx ratios (previous versions of VISCREEN assumed a fixed 10% ratio, while source test data indicates many combustion sources have higher ratios). We request this version be utilized.

Knowing we were not included in the earlier interagency coordination, your staff provided a list of Alaskan contacts from other federal agencies. However, due to the delay in receiving the Memorandum for review and your request for a quick feedback response, we were unable to coordinate with and review other federal agency feedback. We would welcome further dialogue and coordination with you and other federal agencies on this topic.

Please contact our Resources and Planning Staff Officer, Deyna Kuntzsch, at 907-743-9517 or by email at [dkuntzsch@fs.fed.us](mailto:dkuntzsch@fs.fed.us) for further coordination and dialogue.

Sincerely,



TERRI MARCERON  
Forest Supervisor

Alaska Department of Transportation &  
Public Facilities

ADOTPF



**Alaska LNG Project**  
10613 W Sam Houston Pkwy N  
Suite 500  
Houston, TX 77064

Document No.: USAL-PE-SALTR-00-000002-000

10 November 2015

Alaska Department of Transportation & Public Facilities  
Attn: Mr. John Linnell:  
P.O. Box 196900  
MS-2525  
Anchorage, Alaska 99519-6900

**Re: Kenai Spur Highway Re-route: Request for Clarification on URA Applicability**

Dear Mr. Linnell:

The purpose of this letter is to request that Alaska Department of Transportation & Public Facilities (ADOT&PF) meet and discuss the applicability of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended (URA) in the context of the requirements for Privately Funded Right-of-Way Certification, Highway Construction, and National Highway Dedication, combined with an examination of requisite steps to vacate a segment of the legacy (Kenai Spur) highway near Nikiski, Alaska.

**Executive Summary:**

ExxonMobil Alaska LNG LLC (EMALL), on behalf of the Alaska LNG Project participants, AGDC, ExxonMobil, ConocoPhillips, and BP, is considering progressing a land acquisition and highway construction project in Alaska to relocate a segment of the National Highway System to help facilitate the safe execution of a major energy project (Alaska LNG) in the 2018/9-2025 timeframe. At issue is whether the purchase of lands and relocation of occupants during the late 2016-2018 timeframe, required for the completed highway acceptance and transfer to the State, needs to comply with the URA if no Federal funds are used for either development or construction. A potential Federal Highway Administration (FHWA) and ADOT&PF project-specific concurrence or agreement on applicability of the URA will provide the necessary guidance to the acquisition process and facilitate a successful acceptance and transfer of the new highway to the ADOT&PF.

In addition to the URA, key issues to discuss include:

1. Whether, as part of the process by which the ADOT&PF would accept and take possession of the relocated segment of the National Highway System, the corresponding segment of the legacy highway would be abandoned and vacated by the State of Alaska?
2. What agencies have jurisdiction over the vacation of an existing state highway ROW?
3. What are the pertinent policies and/or guidelines that would affect the requisite steps to be taken, and the corresponding timeline for transfer of the legacy highway ROW and facilities to the private project developer?

Concurrence or agreement between the parties, setting forth terms for agency input and expectation for specific requirements to include, at a minimum, the issues discussed herein, should be advanced prior to initiation of the project land acquisition program.

**Summary:**

A land acquisition and highway construction project would relocate a segment of the National Highway System without the use of Federal funds. To successfully execute the highway relocation project, EMALL requires agency clarification on the applicability of the URA with regard to new land rights and ROW needing to be acquired in support of the construction and operation of the new highway segment.

In addition, confirmation of the process required for abandonment and vacation of the corresponding segment of the legacy highway is also needed.

In the event, DOT&PF wishes to have clarifying discussions with our highway relocation consultant, HDR, please feel free to contact Mr. Mark Dalton by calling (907) 644-2071.

If you have questions for EMALL, please contact Jeff Raun by calling (907) 929-4105 with our regulatory group in Anchorage or me by calling (832) 624-2950. If at some point you would prefer to meet and discuss this matter, we are available at your convenience.

Thanks in advance for your support on this matter.

Very truly yours,



Jeffrey D. McDonald  
Land & Right-of-Way Manager  
Alaska LNG Project

cc:

Mike Britton  
Charlie Kominas  
Scott Guttormson  
Matt Horneman  
Mark Dalton

Department of Defense

DOD



ENERGY,  
INSTALLATIONS  
AND ENVIRONMENT

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE

3400 DEFENSE PENTAGON  
WASHINGTON, DC 20301-3400

February 9, 2017

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street NE, Room 1A  
Washington, DC 20426

Dear Ms. Bose:

As requested, the Department of Defense (DoD) Siting Clearinghouse coordinated within DoD an informal review of the Alaska LNG Project. The results of our informal review indicated that the project proposed by Alaska Gasline Development Corporation, BP Alaska LNG LLC, Conoco Phillips Alaska LNG Company, and ExxonMobil Alaska LNG LLC, may potentially impact military operations conducted in this area.

The data provided for review showed that the project is either near or over the boundary of Clear Air Force Station. If more detailed data is provided, the Air Force will be able to provide a definitive response. I request that you contact 1<sup>st</sup> Lieutenant Steven Havens, at 907-585-6520 or [steven.havens3@us.af.mil](mailto:steven.havens3@us.af.mil), to discuss this proposed project. It is my hope that your continued cooperation will help us preserve our military's operational, training, and testing capabilities.

Please note that this informal review by the DoD Siting Clearinghouse does not constitute an action under 49 United States Code Section 44718 and the DoD is not bound by the conclusion arrived at under this informal review. Please call me at 703-571-0076 with any questions.

Sincerely,

Steven J. Sample  
Deputy Director  
DoD Siting Clearinghouse

Federal Energy Regulatory Commission

FERC



**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000016-000

May 21, 2015

Laurie Boros  
Archaeologist, FERC  
888 1<sup>st</sup> St NE  
Washington DC 20426P

**Re: Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations**

Dear Dr. King:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 field work plan detailing proposed methods for determining National Register of Historic Places (NRHP) eligibility at specific, select archaeological sites on BLM lands within the project footprint.

Upon your review of the plan, we would like to arrange a meeting to seek your input and agreement with our proposed methods.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead





**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SGEIS-00-000038-000

October 26, 2015

Mr. James Martin  
Branch Chief, Gas Branch 3  
Federal Energy Regulatory Commission  
888 First Street NE, Room 61-25  
Washington, D.C. 20426

**Re:** Response to Knik Tribe Project Comments  
Alaska LNG PF14-21-000

Dear Mr. Martin:

The Alaska LNG project has reviewed the comment letter sent to FERC by the Knik Tribe, as filed on the docket on October 16, 2015. In this letter, the Knik Tribe expressed interest in participating in the National Historic Preservation Act Section 106 consultation process with FERC as the lead, and with the Project as the non-federal representative. We appreciate the early feedback and input provided in their letter on cultural resources and other environmental and social aspects of the project. In this letter, we provide a summary of our consultation with the Tribe.

As the non-federal representative for Section 106 consultation, the Project sent a letter requesting input on the identification of archaeological sites or Traditional Cultural Properties to potentially affected tribes on October 23, 2014. To date, no direct responses have been received, including from the Knik Tribe. The Project is currently in the process of conducting followup phone conversations with the tribes to solicit feedback.

During the spring and early summer of 2015, the Project conducted open houses in all communities along the Project corridor to inform local residents of upcoming 2015 summer field season fieldwork activities, including cultural resources surveys. Representatives of the Knik Tribe were in attendance at the June 3, 2015 meeting in Wasilla, where Knik administrative centers are located. At this meeting, Project representatives informed the community about upcoming cultural resources work in the Project corridor, which included surveys between Cantwell and Beluga.

Cultural Resources Advisors from Alaskan Tribes accompanied Project cultural resources field crews during the 2015 field season. While the advisors did not represent specific Tribes at this level of informal consultation, their role was to: provide local knowledge and expertise in areas where they are familiar; document cultural resource investigations from an Alaska Native perspective; and comment generally on traditional and cultural practices. Two cultural observers who are shareholders of Cook Inlet Region, Incorporated (CIRI), the upper Cook Inlet Dena'ina

ANCSA regional corporation that includes Knik, accompanied Project cultural resources crews and provided important input during 2015 field surveys.

We appreciate Knik Tribe providing a list identifying general geographic locations with higher potential for containing archaeological sites. We also appreciate their efforts to provide specific locations, based on LiDAR data and published ethnographic sources, of specific drainages containing archaeological sites. The Project has taken this information into account. We look forward to engaging further with the Knik Tribe during the Section 106 process and other community engagements. We will also actively consider the Knik Tribe's comments on other environmental social aspects of the Project in our planning and design.

If you have any questions or additional information requests, please contact me at 907.929.4124 or by email at [karen.wuestenfeld@exxonmobil.com](mailto:karen.wuestenfeld@exxonmobil.com).

Sincerely,



Karen Wuestenfeld

EIS Lead

For and on behalf of Exxonmobil LNG, LLC

Alaska Department of Natural Resources

Mining, Land & Water

ADNR-DMLW

**From:** Brooks, Henry C (DNR) <henry.brooks@alaska.gov>  
**Sent:** Tuesday, November 10, 2015 3:20 PM  
**To:** Horneman, Matthew E; RAUN, JEFF  
**Cc:** McKim, Julie /C  
**Subject:** Public Notice of Water Right Application LAS 29332  
**Attachments:** Public Notice-LAS 29332.pdf; Water Right Application LAS 29332 Area.pdf

Pursuant to AS 46.15 and rules and regulations promulgated thereunder, notice is hereby given that an application was received on September 23, 2013 (Provisional Priority Date), from Alaska Electric & Energy Cooperative Inc., (AEEC) 280 Airport Way, Kenai AK, 99611, to appropriate water as follows:

To withdraw up to 52.56 million gallons of water per year from January 1<sup>st</sup> through December 31<sup>st</sup> from a drilled well, 157 ft. in depth, located in Kenai Peninsula Borough Tax Parcel ID 01505023 at 49989 North Miller Loop Road, within the NE¼NE¼NW¼ Sec 27, T7N, R12W, S.M. Water use is for AEEC's Nikiski Combined Cycle Combustion Plant. This water right will be appurtenant to the Nikiski Combined Cycle Power Plant at Milepost 21.5 of the Kenai Spur Highway, located in the NW¼NW¼ Section 27 and SW¼SW¼ Sec 22, T7N, R12W, Seward Meridian.

You are receiving this notice because you represent the current owners of prior appropriations, under ADL 201536, for Tract A, Williamson Subdivision, Plat 76-73 and under ADL 201537, for Tract B, Williamson Subdivision, Plat 76-73 which potentially could be affected by any permit to appropriate water issued to the applicant AEEC.

Alaska LNG Project LLC is invited to comment on this application. For further information on the subject, please contact Henry Brooks at the telephone number listed in the attached Public Notice or at this e-mail address [henry.brooks@alaska.gov](mailto:henry.brooks@alaska.gov). The Water Resources Section must receive comments in writing by 5:00 p.m., November 24, 2015 at the above address to be considered. If issued, a permit may be extended for good cause shown, pursuant to AS 46.15.110 and 11 AAC 93.120(f), without additional public notice.

Henry C. Brooks  
Natural Resources Manager I  
Water Management Unit  
907-269-8641

**From:** RAUN, JEFF  
**Sent:** Tuesday, November 24, 2015 4:02 PM  
**To:** 'Brooks, Henry C (DNR)'  
**Cc:** McKim, Julie /C; Horneman, Matthew E  
**Subject:** RE: Public Notice of Water Right Application LAS 29332

USAL-PE-SAEML-00-000001-000

Mr. Brooks,

Thank you for the opportunity for public comment on Water Right Application LAS 29332 submitted by Alaska Electric & Energy Cooperative Inc. (AEEC) to the Alaska Department of Natural Resources (DNR). The following comments are offered for DNR's consideration.

Alaska LNG Project LLC (hereinafter AKLNG) has no objection to the subject application but notices that it may represent a 4-5 fold increase over current water usage. The application to withdraw up to 52.56 million gallons of water per year is consistent with Temporary Water Use Permit A2010-146 initiated on 12/23/2010, and, we trust, is based on sound business requirements for near-term demand and meets criteria for the intent and ability of the applicant to complete the appropriation.

But given the sizeable increase in demand over current usage and consideration for other industry plans for the area, which will also need water, AKLNG recommends that DNR *require the applicant to submit monthly water use reports available to the public that summarize monthly groundwater usage, drawdown, and recovery information.* Documentation of water usage and levels is protective of the public interest, considerate of the rights of prior appropriators, and beneficial to ongoing and future operations of the applicant and neighbors.

Also, since the existing well (the point of appropriation) is situated on private land now owned by AKLNG, *we ask the DNR condition LAS 29332, as now constituted or hereafter amended, upon compliance by AEEC with the terms and provisions of that certain Easement Agreement between AEEC and Alaska LNG Project LLC dated May 22, 2015, and recorded on June 3, 2015, as Document No. 2015-004592-0, Kenai Recording District.*

Thank you for your consideration of these comments. Please contact me directly if you have any follow-up questions.

Regards,  
Jeff

Jeff Raun  
Alaska LNG Project  
ExxonMobil Development Company  
(O) 1-907-929-4105  
(C) 1-907-570-8083

---

**From:** Brooks, Henry C (DNR) [<mailto:henry.brooks@alaska.gov>]  
**Sent:** Tuesday, November 10, 2015 3:20 PM  
**To:** Horneman, Matthew E; RAUN, JEFF  
**Cc:** McKim, Julie /C  
**Subject:** Public Notice of Water Right Application LAS 29332

Pursuant to AS 46.15 and rules and regulations promulgated thereunder, notice is hereby given that an application was received on September 23, 2013 (Provisional Priority Date), from Alaska Electric & Energy Cooperative Inc., (AEEC) 280 Airport Way, Kenai AK, 99611, to appropriate water as follows:

To withdraw up to 52.56 million gallons of water per year from January 1<sup>st</sup> through December 31<sup>st</sup> from a drilled well, 157 ft. in depth, located in Kenai Peninsula Borough Tax Parcel ID 01505023 at 49989 North Miller Loop Road, within the NE¼NE¼NW¼ Sec 27, T7N, R12W, S.M. Water use is for AEEC's Nikiski Combined Cycle Combustion Plant. This water right will be appurtenant to the Nikiski Combined Cycle Power Plant at Milepost 21.5 of the Kenai Spur Highway, located in the NW¼NW¼ Section 27 and SW¼SW¼ Sec 22, T7N, R12W, Seward Meridian.

You are receiving this notice because you represent the current owners of prior appropriations, under ADL 201536, for Tract A, Williamson Subdivision, Plat 76-73 and under ADL 201537, for Tract B, Williamson Subdivision, Plat 76-73 which potentially could be affected by any permit to appropriate water issued to the applicant AEEC.

Alaska LNG Project LLC is invited to comment on this application. For further information on the subject, please contact Henry Brooks at the telephone number listed in the attached Public Notice or at this e-mail address [henry.brooks@alaska.gov](mailto:henry.brooks@alaska.gov). The Water Resources Section must receive comments in writing by 5:00 p.m., November 24, 2015 at the above address to be considered. If issued, a permit may be extended for good cause shown, pursuant to AS 46.15.110 and 11 AAC 93.120(f), without additional public notice.

Henry C. Brooks  
Natural Resources Manager I  
Water Management Unit



THE STATE  
of **ALASKA**

GOVERNOR BILL WALKER

**Department of Natural Resources**

DIVISION OF MINING, LAND & WATER  
Water Resources Section

550 West 7th Avenue, Suite 1020  
Anchorage, Alaska 99501-3579  
Main: 907.269.8600  
TDD: 907.269.8411  
Fax: 907.269.8947

November 30, 2015

Certified Mail: 91 7199 9991 7032 2600 6572

Matthew Horneman  
And Jeff Raun  
3201 C Street, Suite 506  
Anchorage, Alaska 99503

Subject: Water Right Application – LAS 29332

Dear Mr. Horneman and Raun:

Enclosed is a copy of a Public Notice concerning an application for water rights in your area. By law we are required to notify persons with senior water rights.

Please review the attached public notice and forward any written comments you may have regarding this water right application to this office. Your written comments must be received in this office by 5:00 p.m. on the last day of the fifteen (15) day public comment period. Pursuant to 11 AAC 93.080 (6), "The public comment period set by AS 46.15.133 (c) begins the first day the newspaper publication appears, or the first day of posting, or upon receipt of the notice as evidenced by the certified mail receipt, date stamp, or other evidence of actual service." If we have not heard from you by this date, we will assume that you have no comment and will proceed with the processing of this application.

Sincerely,

A handwritten signature in cursive script that reads "Henry Brooks".

Henry Brooks

Natural Resource Manager 1

Enclosure: Public Notice LAS 29332

RECEIVED DEC 02 2015

National Marine Fisheries Service  
NMFS



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: LT-AKE-PT-14-0102-001

October 27, 2014

Mr. Greg Balogh  
Field Office Supervisor  
National Marine Fisheries Service,  
Protected Resources Division  
222 W. 7<sup>th</sup> Ave. Box 43  
Anchorage, AK 99513-7577  
[Greg.balogh@noaa.gov](mailto:Greg.balogh@noaa.gov)

RE: Alaska LNG Export Project  
FERC Docket No.: PF14-21-000

Dear Mr. Balogh:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Alaska LNG Project.

In accordance with provisions of the NEPA (83 Stat. 852; 42 U.S.C. 4321 *et seq.*), federal laws governing the protection of Federally listed endangered and threatened species (listed species) including the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Marine Mammal Protection Act (MMPA) (86 Stat. 1027; 16 U.S.C. 1361 *et seq.*) and Essential Fish Habitat Consultation (EFH) (50 CFR Part 600; 16 U.S.C. 1801 *et seq.*) apply to the review and approval of this Project. This letter is a request to initiate informal consultation with the National Marine Fisheries Service ("NMFS") for the proposed Project pursuant to Section 7(a)(2) of the ESA. The Project Participants are the Commission's designated non-Federal representative under 18 C.F.R. Section 380.13(b)(1) for purpose of informal consultation with the NMFS under the ESA.



Project Participants are in the early stages of planning for the proposed Project. Project Participants have established a preliminary study corridor for the Mainline and study areas for the facilities of the Project. A route within the study corridor will be finalized with stakeholder input during the pre-filing process. A general project overview map depicting the study areas/corridor for the Project is attached for your review, along with GIS shapefiles.

On behalf of the Project Participants, this letter requests any information (including but not limited to a list of species) you may have regarding federally threatened or endangered species or critical habitat that may occur in the vicinity of the Project. Protected species information provided by the FWS will be included in an applicant-prepared Biological Assessment (BA) that will be included as an appendix to Resource Report No. 3 of the Environmental Report (ER) that would form part of our application. It is expected that this BA will be developed over the next two draft submittals of the ER to result in a complete BAE for the final FERC application. FERC and NMFS can then properly consider any effects on known listed species and propose avoidance or mitigation measures during their review. Concurrent consultation with United States Fish and Wildlife Service, Anchorage, Alaska Office will also occur..

We look forward to your participation in the evaluation of this project. If you have any questions, please contact me at 832-624-2816 or by email at [Charlie.kominas@exxonmobil.com](mailto:Charlie.kominas@exxonmobil.com).

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Jim Martin, FERC  
Sarah Conn, Supervisor, Fairbanks Fish and Wildlife Field Office  
Socheata Lor, Supervisor, Anchorage Fish and Wildlife Field Office  
Doug Limpinsel, Marine Biologist, National Marine Fisheries Service Office



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: LT-AKE-PT-14-0102-002

October 27, 2014

Mr. Doug Limpinsel  
Marine Fisheries Biologist  
National Marine Fisheries Service,  
Habitat Conservation Division  
222 W. 7<sup>th</sup> Ave. #43  
Anchorage, AK 99513-7577  
[Doug.limpinsel@noaa.gov](mailto:Doug.limpinsel@noaa.gov)

RE: Alaska LNG Export Project  
FERC Docket No.: PF14-21-000

Dear Mr. Limpinsel:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Alaska LNG Project.

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Project Participants are in the early stages of planning for the proposed Project. Project Participants have established a preliminary study corridor for the Mainline and study areas for the facilities of the Project. A route within the study corridor will be finalized with stakeholder input during the pre-filing process. A general project overview map depicting the study areas/corridor for the Project is attached for your review, along with GIS shapefiles.

On behalf of the Project Participants, this letter requests any information (including but not limited to a list of species) you may have regarding federally threatened or endangered species or critical habitat that may occur in the vicinity of the Project. Protected species information provided by the FWS will be included in an applicant-prepared Biological Assessment (BA) that will be included as an appendix to Resource Report No. 3 of the Environmental Report (ER) that would form part of our application. It is expected that this BA will be developed over the next two draft submittals of the ER to result in a complete BAE for the final FERC application. FERC and NMFS can then properly consider any effects on known listed species and propose avoidance or mitigation measures during their review. Concurrent consultation with United States Fish and Wildlife Service, Anchorage, Alaska Office will also occur..

We look forward to your participation in the evaluation of this project. If you have any questions, please contact me at 832-624-2816 or by email at [Charlie.kominas@exxonmobil.com](mailto:Charlie.kominas@exxonmobil.com).

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Jim Martin, FERC  
Sarah Conn, Supervisor, Fairbanks Fish and Wildlife Field Office  
Socheata Lor, Supervisor, Anchorage Fish and Wildlife Field Office  
Greg Balogh, Supervisor, Anchorage National Marine Fisheries Service Office



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

**Department of Natural Resources**

DIVISION OF MINING, LAND & WATER  
Water Resources Section

550 West 7th Avenue, Suite 1020  
Anchorage, Alaska 99501-3579  
Main: 907.269.8600  
TDD: 907.269.8411  
Fax: 907.269.8947

RECEIVED APR 05 2016

April 1, 2016

Alaska LNG Project LLC  
3201 C. Street, Suite 506  
Anchorage, Alaska 99503

Re: Water Right Certificate of Appropriation, ADL 201536, Transfer

---

To Whom It May Concern:

This letter is to advise you that the property Tract A, Williamson Subdivision located in the Kenai Recording District has a current water right, above referenced Certificate of Appropriation. The water right was granted for 7,200 gallons per day for multi-family domestic use in an eighteen unit apartment complex. This water right is subjected to an annual Administrative Service Fee, 11 AAC 05.010(a)(8)(M), see enclosed fact sheet. As an advisory, this annual Administrative Service Fee is active and will be billed in 2017.

I have enclosed copies of the water right Certificate of Appropriation ADL 201536, Water Rights in Alaska Fact Sheet and a summary of the Water Use Act for your review. If you have not utilized the full quantity of water under the Alaska Water Use Act in the last 5 years, you have abandoned the water. You may do a full or partial relinquishment down to the quantity in use. Please contact this office about submitting a Notice of Relinquishment, or perhaps a Statement of Beneficial Use if you are still using the water in the manner listed above in order to move to certificate.

If you have any questions on the matter, please do not hesitate to contact me at telephone number (907) 269-8620. Thank you for your cooperation with the Water Resources Section.

Sincerely,

A handwritten signature in blue ink that reads "Christine Ballard".

Christine Ballard

Natural Resource Specialist II

Enclosed:      A copy of Certificate of Appropriation ADL 201536  
                    Water Use Act, Administrative Service Fee Fact Sheet  
                    Water Right Fact Sheet

RECEIVED 490 08 2000

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**2013-006501-0**

Recording Dist: 302 - Kenai

7/11/2013 10:21 AM Pages: 1 of 3



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DO NOT DETACH



# State of Alaska



PERMIT AND

## CERTIFICATE OF APPROPRIATION OF WATER

Certificate No. 201536-C

This is to certify that the foregoing is a full, true and correct copy of the original as the same appears in the files in my office.

Signature Christine Bellard

Title NRS II

Date 7/8/2013

Know All Men By These Presents that the State of Alaska, pursuant to A.S. 46.15, as amended and the rules and regulations promulgated thereunder, hereby grants to WADE OIL FIELD SERVICE CO., INC., Route 1, Box 335, Kenai, Alaska 99611 the right to the use of 7200 gallons per day from the public waters of the State of Alaska for the purposes of multi-family domestic use in an eighteen unit apartment complex. The location of the water source to which the water right herein granted shall appertain is a drilled well 190 feet deep within Tract A, Williamson Subdivision located within NW1/4NW1/4 Section 27, Township 7 North, Range 12 West, Seward Meridian and the right to said water shall be appurtenant to that certain tract of real property described as follows:

Tract A, Williamson Subdivision located within NW1/4NW1/4 Section 27, Township 7 North, Range 12 West, Seward Meridian

Priority of appropriation began January 18, 1979

To Have and to Hold the said water right with the appurtenances thereof unto the said Grantee and its heirs and assigns forever, subject to the provisions of A.S. 46.15.140-160.

In Testimony Whereof the State of Alaska has caused these presents to be executed by the Director of the Division of Lands pursuant to A.S. 46.15, as amended, this 22nd day of May, A.D. 1979.

2013-006501-0



2 of 3

Darryl L. Hollen  
for Director, Division of ~~DEPT~~ Forest, Land and Water Management

State Record of Water Right Certificates

Vol. XX Page 4851 ADL 201536

Be  
6-5-79  
CR 6-5-79  
CK MCP





**Kenai Recording District,  
Third Judicial District, State of Alaska**

**After recording return to the Grantor:**

**Department of Natural Resources  
Division of Mining, Land and Water  
550 West 7<sup>th</sup> Avenue, Suite 1020  
Anchorage, Alaska 99501-3562**

**State Business – No Charge**



# Fact Sheet



Division of Mining, Land and Water – February 2006

## Administrative Service Fee

### ***Annual Administrative Service Fee.***

Under 11 AAC 05.010(a)(8)(M) an annual administrative service fee for each appropriation of water for which a permit, certificate, or an authorization for temporary use of water has been issued is \$50 per year. However, the following uses are exempt from the annual administrative service fee:

- a permit or certificate authorizing the use of 500 gallons or less per day for all uses;
- a permit or certificate authorizing domestic use of 1,500 gallons or less per day for one single-family residence or duplex;
- a reservation of water under AS 46.15.145.

### ***Why an annual administrative service fee?***

The administrative service fee helps pay for the following administrative services:

- Update water right records in an online database for use as a management tool and public record source. This system contains data on customers, water right status, water source (well depth or water body name), type of water use, amount of water, period of water use, water right priority date, and property description (meridian, township, range, section, quarter sections, latitude and longitude, subdivision name or survey number, tract, block, and lot). Currently, the water right database has over 24,000 records.
- Update water source locations on the state's online mapping programs for use by the department and the public.
- Respond to complaints from the public and government agencies regarding water use and misuse.
- Administratively handle complaints and appeals regarding the protection of prior water rights.
- Collect and monitor specific data, such as water use records, stream gage data, water level records, well logs, as-built plans, and specifications.
- Assist the Department of Law with appeals to the Superior Court on water resource management issues and water rights.
- Provide driller's well logs for inclusion in the online water well log database. Currently, the water well log database has over 30,000 records.
- Conduct coastal zone consistency reviews, to assure that the appropriation and use of water is consistent with the Alaska Coastal Management Program.
- Work with potential water users prior to filing water right applications to ensure that water right holders and water resources are not harmed by their proposed activity (examples: Pebble Gold and Copper Mine, Chuitna Coal Mine, Donlin Creek Mine, Blue Lake Hydroelectric, Cooper Creek Hydroelectric, Falls Creek Hydroelectric, Nikaitchuq Offshore Oil and Gas Project, The Ranch Subdivision, and Meadowbrook Subdivision).
- Participate in site-specific water resource planning and review (examples: state area and management plans, federal land management plans, wildlife refuge plans, recreation plans, and groundwater task forces).
- Conduct or assist in hydrologic and water use data collection for specific areas not related to a water right request but to an area of water management concern.

The fee has become necessary as the state legislature has directed the Department to find other sources of revenues to replace general funds. Program receipts are collected from the individual beneficiary of a program, and the funds collected are used to administer that program for the benefit of the water right holders and the general public.

### ***Why a \$50 fee for the work listed above?***

The revenues generated will offset budget cuts and allow us to improve the administration and management of Alaska's water resources. It has been determined that the collection of a fee less



than \$50 is not economical due to the cost of sending a bill and receipting a payment. It is also a fact that of the permits, certificates, and authorizations subject to this fee, not all of them will receive \$50 worth of work each and every year. Some of the files will require only minimal work. The fee helps pay for the administrative, management, and technical assistance by which the water right system supports the economy of Alaska and its development.

#### ***Why the exemptions to the fee?***

It is not in the state's best interest to impose the fee on an individual or group that has reserved water for instream flows to protect fish and wildlife and public recreation opportunities.

The exemption to the fee for appropriations of 1,500 gpd or less for one single-family residence or duplex is based on the fact that time spent on administrative work associated with this type of use is, on the average, a lot less than on permits, certificates, and authorizations issued for other types of water uses. Water use for a single-family residence or duplex is a very stable water use – the type of water use and the location of water use rarely changes, and the source of water is normally uncontroversial due to the amount of water required. The Department purposely structured this exemption for domestic water uses such as lawn and garden, domestic livestock, greenhouses, and other water-related household amenities. The water well log data obtained from the many single-family residences is a valuable source of hydrologic information that is incorporated into an online database shared by state, federal, and municipal agencies, and used by the public and private sectors. The cost of this type of data collected, if it were not collected through the water right application process, would cost much more than the monies collected through an administrative service fee.

In short, the Department of Natural Resources has structured this fee to be fair to all water right appropriators of the state and has considered the economics of collecting a fee, in providing the above exemptions to the fee.

#### ***Where can I get more information?***

More information is available in the Department of Natural Resources' fact sheets on Water Rights in Alaska, Dam Safety in Alaska, Reserving Water for Instream Use, Federal Reserved Water Rights, and Alaska Hydrologic Survey. Further information and application forms may be obtained from the

following offices or visit  
[www.dnr.state.ak.us/mlw/water/index.htm](http://www.dnr.state.ak.us/mlw/water/index.htm).

#### **Department of Natural Resources Water Resources Section**

**Anchorage Office**  
 550 West 7th Avenue, Suite 1020  
 Anchorage, AK 99501-3562  
 Phone: (907) 269-86 00  
 Fax: (907) 269-8947

**Fairbanks Office**  
 3700 Airport Way  
 Fairbanks, AK 99709-4699  
 Phone: (907) 451-2790  
 Fax: (907) 451-2703

**Juneau Office**  
 PO Box 111020  
 400 Willoughby Avenue  
 Juneau, AK 99811-1020  
 Phone: (907) 465-34 00  
 Fax: (907) 586-2954



# WATER USE ACT

## ALASKA STATUTE 46.15

Sec. 46.15.140.

**Abandonment, Forfeiture, and Reversion of Appropriation.**

(a) The commissioner may declare an appropriation to be wholly or partially abandoned and revoke or amend the certificate of appropriation as to the unused quantity of water if an appropriator, with intention to abandon, does not make beneficial use of all or a part of the appropriated water.

(b) The commissioner may declare that an appropriator has wholly or partially forfeited an appropriation, and shall revoke the certificate of appropriation in whole or in part if the appropriator voluntarily fails or neglects, without sufficient cause, to make use of all or a part of the appropriated water for a period of five successive years. A person who has a permit to develop a use of water including but not limited to residential, agricultural, industrial, or mining use, but has not developed that property to the point of water use before permit expiration, may file a request for permit extension with the commissioner.

(c) Failure to use beneficially for five successive years all or part of the water granted in a certificate of appropriation raises a rebuttable presumption that the appropriator has abandoned or forfeited the right to use the unused quantity of water and shifts to the appropriator the burden to prove otherwise to the satisfaction of the commissioner.

(d) If the commissioner revokes a certificate in whole or in part, the portion of the certificate covered by the revocation reverts to the state and the water becomes unappropriated water.

Sec. 46.15.160.

**Transfer and Change of Appropriations.**

(a) The right to use water under an appropriation or permit shall be appurtenant to the land or place where it has been or is to be beneficially used, provided, that water supplied by one person to another person's property is not appurtenant to the property unless the parties so intend. An appurtenant water right shall pass with a conveyance of the land, or transfer, or by operation of law unless specifically exempted from the conveyance.

(b) With the permission of the commissioner, all or any part of an appropriation may be severed from the land to which it is appurtenant, may be sold, leased or transferred for other purposes or to other land and be made appurtenant to other land. A permit or certificate or a deed, lease, contract, assignment of permit or other instrument transferring an appropriation must be filed in the office of the commissioner and a certified copy of the instrument must be recorded in the recorder's office of the recording district in which the appropriation is located.

Revised (3/02)





# Fact Sheet



Division of Mining, Land and Water – February 2006

## Water Rights in Alaska

### ***What are water rights?***

A water right is a legal right to use surface or ground water under the Alaska Water Use Act (AS 46.15). A water right allows a specific amount of water from a specific water source to be diverted, impounded, or withdrawn for a specific use. When a water right is granted, it becomes appurtenant to the land where the water is being used for as long as the water is used. If the land is sold, the water right transfers with the land to the new owner, unless the Department of Natural Resources (DNR) approves its separation from the land. In Alaska, because water wherever it naturally occurs is a common property resource, landowners do not have automatic rights to ground water or surface water. For example, if a farmer has a creek running through his property, he will need a water right to authorize his use of a significant amount of water. Using water without a permit or certificate does not give the user a legal right to use the water.

### ***How do I obtain a water right?***

To obtain water rights in Alaska, you need to submit an application for water rights to the DNR office in the area of the water use. After your application is processed, you may be issued a permit to drill a well or divert the water. Once you have established the full amount of water that you use beneficially and have complied with all of the permit conditions, a certificate of appropriation may be issued. This is the legal document that establishes water rights.

### ***What costs are involved?***

An application for water rights must be accompanied by the appropriate filing fee as determined by 11 AAC 05.010(a)(8) :

- \$100 for one single-family residence or duplex, or for water use associated with one single-family residence or duplex
- \$1,200 for activities related to oil and gas and associated substances
- Fee varies for activities related to locatable minerals, unless the application is filed under 11 AAC 05.010(a)(9)(E)(i) or (9)(F)(i) - *contact Water Resources Section for pre-application meeting*

- Fee varies for hydroelectric power generation - *contact Water Resources Section for pre-application meeting*
- Fee varies for water removal out of a hydrologic unit under AS 46.15.035 or 46.15.037 - *contact Water Resources Section for pre-application meeting*
- \$200 for 5,000 gallons per day (gpd) or less for a use not listed above
- \$450 for greater than 5,000 gpd and no more than 30,000 gpd for a use not listed above
- \$550 for greater than 30,000 gpd and no more than 100,000 gpd for a use not listed above
- \$900 for greater than 100,000 gpd for a use not listed above

To ensure that the public is notified of proposed water uses, you may be required to pay the cost of a legal advertisement in at least one issue of a local newspaper in the area of the proposed water use. Public notice is required if the appropriation is greater than 5,000 gpd. Public notice may be required for uses of less than 5,000 gpd if the water source is an anadromous fish stream or the water source has a high level of competition among water users. In addition, permit, certificate, and authorization holders are subject to an annual \$50 administrative service fee. Water appropriations of 500 gpd or less for any use, appropriations of 1,500 gpd or less for a single-family residence or duplex, and reservations of water for public benefit are exempt from the annual fee.

### ***Why should I apply for water rights?***

1. If you have water rights, you have legal standing to assert those rights against conflicting water users who do not have water rights.
2. A person with water rights has priority to use water over persons who later file for water rights from the same source.
3. Anyone who diverts, impounds, or withdraws a significant amount of water for use, without a permit, certificate, or authorization is guilty of a misdemeanor (AS 46.15.180). A significant amount of water is defined by 11 AAC 93.035(a) and (b) as:



- the consumptive use of more than 5,000 gallons of water from a single source in a single day;
  - the regular daily or recurring consumptive use of more than 500 gpd from a single source for more than 10 days per calendar year;
  - the non-consumptive use of more than 30,000 gpd (0.05 cubic feet per second) from a single source; or
  - any water use that may adversely affect the water rights of other appropriators or the public interest.
4. By filing for water rights, you provide valuable information about water use and water availability in Alaska. Water right records are updated and maintained in an online database. This system contains data on customers, water right status, water source (well depth or water body name), type of water use, water quantity, period of water use, water right priority date, and property description (meridian, township, range, section, quarter sections, latitude and longitude, subdivision name or survey number, tract, block, and lot). Currently, the water right database has over 24,000 records. This information allows state water managers to estimate present uses of water, determine how much water is available from streams and aquifers in the state, protect established water right holders, prevent over-appropriation of water sources, and manage the state's water resources.

***What other water resources authorizations are available from the Department of Natural Resources?***

- **Dam Safety:** A certificate of approval is required for constructing or modifying a dam that impounds 50 acre-feet of water and is at least 10 feet high, or is at least 20 feet high, or poses a threat to life and property. An application form and the fee prescribed by 11 AAC 05.010(a)(8) should be filed with the Department of Natural Resources.
- **Instream Flow:** A certificate is required for maintaining a specific flow in a portion of stream or water level in a lake. An instream flow reservation can be made to protect fish and wildlife habitat, migration, and propagation; recreation and park purposes; navigation and transportation purposes; and sanitary and water quality purposes. An application form and the fee prescribed by 11 AAC 05.010(a)(8) should

be filed with the Department of Natural Resources.

***How do I obtain authorization for short-term water use (temporary water use authorization)?***

A temporary water use authorization may be needed if the amount of water to be used is a significant amount, the use continues for less than five consecutive years, and the water to be used is not appropriated. This authorization does not establish a water right but will avoid conflicts with fisheries and existing water right holders. The application fee for a temporary water use authorization is \$350 for all uses of water from up to five water sources.

***Where can I get more information?***

More information is available in the Department of Natural Resources' fact sheets on Administrative Service Fee, Dam Safety in Alaska, Reserving Water for Instream Use, Federal Reserved Water Rights, and Alaska Hydrologic Survey. Further information and application forms may be obtained from the following offices or visit [www.dnr.state.ak.us/mlw/water/index.htm](http://www.dnr.state.ak.us/mlw/water/index.htm).

**Department of Natural Resources  
Water Resources Section  
Anchorage Office  
550 West 7th Avenue, Suite 1020  
Anchorage, AK 99501-3562  
Phone: (907) 269-8600  
Fax: (907) 269-8947**

**Fairbanks Office  
3700 Airport Way  
Fairbanks, AK 99709-4699  
Phone: (907) 451-2790  
Fax: (907) 451-2703**

**Juneau Office  
PO Box 111020  
400 Willoughby Avenue  
Juneau, AK 99811-1020  
Phone: (907) 465-3400  
Fax: (907) 586-2954**





**Alaska LNG Project**

3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAG-PE-SALTR-00-000001-000

11 May 2016

Ms. Bridget Crokus  
Endangered Species Act Consultation Biologist  
NMFS Anchorage Field Office  
222 West 7<sup>th</sup> Avenue  
Anchorage, AK 99513

**Re: Alaska LNG 2016 Field Program in the Beaufort Sea**

Dear Ms. Crokus:

The Alaska LNG Project team wishes to thank you for meeting with us on April 1, 2016 to discuss the proposed sampling program near West Dock in the Prudhoe Bay Unit for summer 2016. As discussed, the Project plans to mobilize a 50-foot vessel to collect data along the causeway, near the STP proposed dockhead, dredge channel location, and turning basin. The Project has streamlined the summer program to meet two main objectives which include: (1) Collect metocean and bathymetric data in the 2015 test trench locations to validate the GTP sedimentation model; the model will be used to more accurately predict dredge volumes at the locations along West Dock that are being considered for module offload and (2) Collect bathymetric data along the causeway and STP location to support feasibility studies for the potential construction of a new dockhead at STP.

The current summer program no longer plans to use vibracores or geophysical equipment, but future work could require the use of such equipment in order to collect data to support our EIS and other Major Permits. The Project will make every effort to engage NMFS in a timely manner in order to understand the requirements and conduct the appropriate consultations.

We thank you again for the time that you took to review our program and we will be sure to inform you of our future plans as they are scoped.

If you have any questions about this Program during implementation, please call Dr. Jennifer Dupont at 832 732 2467.

Sincerely,

A handwritten signature in blue ink that reads "PE Brinkmann".

Philip Brinkmann  
Licensing Manager  
For and on behalf of EMALL

National Park Service

NPS



Alaska LNG Project  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAI-PE-SALTR-00-000020-000  
Confidential

June 25 2015

Brooke Merrell  
National Park Service  
U.S Department of the Interior  
240 West 5<sup>th</sup> Avenue, Room 114  
Anchorage, AK 99501

**Re: Alaska LNG air quality modeling approach for Federal Conservation Units**

Dear Brooke

The Alaska LNG Project plans to construct several stationary sources of air emissions as part of its plan to construct an integrated project with interdependent facilities for the purpose of liquefying natural gas for export and opportunity for in-state delivery. This letter and supporting documentation, was developed in response to a meeting between the Alaska LNG Project team, the Federal Energy Regulatory Commission (FERC), Federal Land Managers (FLM), and the Alaska Department of Environmental Conservation on April 21, 2015.

The enclosed memorandum and supporting information, outlines Alaska LNG's proposed air dispersion modeling approach for stationary sources proposed to be constructed as part of the Alaska LNG Project, including the Gas Treatment Plant (GTP) on the North Slope, compressor stations along the proposed pipeline, and the Liquefaction Facility along Cook Inlet. The approach addresses the modeling and air quality-related analyses that would be required to support the review of the project under the federal National Environmental Policy Act (NEPA). This approach does not address air quality permitting required by agencies that implement the Clean Air Act, although the analyses that are prepared in support of those applications also would be used to support the NEPA process. In evaluating impacts from proposed project sources, this modeling approach considers Federal Conservation Units (Class I and sensitive Class II areas) as nominated by the National Park Service and U.S Fish and Wildlife Service. The U.S. Bureau of Land Management chose not to nominate any Federal Conservation Units as sensitive Class II areas.

Since this modeling approach will serve as the basis of the air quality impact assessment to be provided in Resource Report 9 as part of the FERC application, the Alaska LNG Project requests agency comments by July 15, 2015.

Please contact our Environmental Impact Statement Advisor, Norman Scott, at 907-929-4129 or by e-mail at [norm.scott@exxonmobil.com](mailto:norm.scott@exxonmobil.com) if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Karen Wuestenfeld".

Karen Wuestenfeld  
EIS Lead





**United States Department of the Interior**  
**NATIONAL PARK SERVICE**

Alaska Region  
 240 West 5<sup>th</sup> Avenue, Room 114  
 Anchorage, Alaska 99501

IN REPLY REFER TO:

11.0216AKR(1-15)

**TRANSMITTED VIA ELECTRONIC MAIL - NO HARDCOPY TO FOLLOW**

**1.A.2.(AKRO-EPC)**

**July 24, 2015**

Norman Scott, EIS Advisor  
 AK-LNG  
 3201 C Street, Suite 506  
 Anchorage, AK 99503

Dear Mr. Scott:

Thank you for the opportunity to provide comments on the Alaska LNG Project's proposed Air Quality Modeling Approach. The NPS has the following comments for the NEPA air quality analyses affecting the NPS units Gates of the Arctic NP and Preserve, Denali NP and Preserve, Lake Clark NP and Preserve, and Kenai Fjords NP.

- 1. The Alaska LNG Project air quality analysis should include construction emissions for facility and gas pipeline construction.*

The NPS disagrees with screening method #1 presented in the June 2015 Air Quality Modeling Approach Memorandum which states "Evaluate impacts due to operations emissions, but not construction." The NPS requests that to fully evaluate effects under the NEPA process, the Alaska LNG project conduct a two-phase air quality impact analysis for impacts to the above cited NPS Alaska Units. The first phase of the impact analysis should assess the impacts during the construction phase for all of the Alaska LNG project including the construction of the pipeline and the construction of the stationary sources such as the GTP Facility, compressor and heater stations, the Liquefaction facility, and the ship port terminal. The second phase should evaluate impacts due to operations emissions.

The comments below address the air quality impact modeling analysis methodology and data to be applied in both the modeling of the construction phase and the operation phase. The modeling of the two different phases, construction and operations, will be very similar to each other in terms of meteorological data, the air dispersion models and methodologies. The main differences in the modeling of the two different phases will be the source of emissions, the quantity of emissions, and the geographic location of the emission sources. The NPS would like

the opportunity to review the modeling protocols for both the construction and operation phase modeling with the AERMOD, CALPUFF, and VISCREEN models. If a PLUVUE II analysis is required, the NPS will provide assistance to Alaska LNG in developing the modeling protocol.

2. *The Alaska LNG Project should evaluate impacts of National Ambient Air Quality (NAAQS) criteria pollutants for NPS Alaska units, even where Q/D (emissions for the maximum 24 hour emission rate divided by distance in kilometers) < 10.*

The Alaska LNG modeling approach to the apply the Q/D (emissions for the maximum 24-hour emission rate divided by distance in kilometers) screening method to screen out some of the four NPS units from an Air Quality Related Values analysis does not apply for distances less than 50 km as per Federal Land Managers' Air Quality Related Values Work Group (FLAG) 2010 (Section 3.2). Also although the FERC is not a signer to the Federal Memorandum of Understanding (NPS, FWS, USFS, EPA) regarding oil and gas development and the associated air quality analyses, the NPS is referencing this inter Federal government MOU as guidance that Q/D does not apply to an oil and gas project.

Therefore, even though Table 2 in the Alaska LNG Modeling Approach may indicate a Q/D of less than "10" for the NPS Units that are less than 50 km from one of the project's sources, the NPS at this time cannot eliminate those particular sources and the NPS Unit for an air quality analysis until the exact emission quantity and species are known for that particular source. In footnote #1 for Table 3, the value Q should be calculated following the FLAG guidance Section 3.2 and should include primary sulfate (SO<sub>4</sub>) emissions along with the listed NO<sub>x</sub>+SO<sub>2</sub>+PM.

Regardless of the distances and emissions involved, the NPS is requesting that the NEPA air quality impact analysis model the impacts to the NAAQS criteria pollutants emitted from the from the Alaska LNG project at the four NPS units. As stated in the Modeling Approach document's Table 3, the correct models to calculate impacts of the criteria pollutants (other than ozone) are the EPA AERMOD model for distances of 50 km and less and the EPA CALPUFF model for distance beyond 50 km out to the distance of 300 km from the source to the respective NPS unit. The NPS also agrees with the proposed meteorological data sets listed in Table 3 for the AERMOD near field model and the EPA long-range transport model CALPUFF. The AERMOD modeling protocols should provide a description of the proposed receptor grid resolution for both the construction phase and operation phase for the four NPS units. The CALPUFF analyses can use the CALPUFF receptors from the NPS data base for Denali NP. The CALPUFF modeling protocol should propose a similar receptor grid density for the Gates of the Arctic, Lake Clark, and Kenai Fjords NPs and Preserves.

3. *The Air Quality Related Values (AQRV) analysis*

The National Park Service Organic Act of 1916 (16 USC1, *et seq.*) and the Wilderness Act of 1964 (16 USC 1131, *et seq.*) guide the protection of park and wilderness areas. The general mandates of the Organic Act state that the NPS will "promote and regulate the use of ... national parks...by such means and measures as conform to the fundamental purpose of said parks, ... which purpose of the said parks, ... which purpose is to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such manner

and by such means as will leave them unimpaired for the enjoyment of future generations (16 USC 1). Thus the NPS has an "affirmative responsibility" to protect Air Quality Related Values (AQRVs).

AQRV analyses for both the construction and operation phases should address impacts to visibility and acid deposition. Impacts to both the Night Sky resource and Visual Scenery resources from both the construction and operation phases should also need to be addressed for the four NPS units.

The Alaska LNG Modeling Approach for the construction phase of the project does not include distances of the construction activity and the emission rates of the potential pollutants, and thus the NPS at this time cannot determine which sections of the pipeline construction will warrant an AQRV analyses for the four NPS units. We request that Alaska LNG perform the Q/D calculations for the construction phase for pipeline sections near the four NPS units.

The Q/D value calculated for the stationary sources in Table 2 is not a bright line at the value of 10, but a guideline. The NPS is requesting that AQRV analyses also be performed for Compressor Stations 4 and 6 near Gates of the Arctic NPP and Compressor Station 14 near Denali NPP. For the acid deposition analyses of total nitrogen and total sulfur the Alaska LNG project may apply either the EPA AERMOD model with the methodologies found in the attached FLM guidance document Near Field Nitrogen Deposition Modeling Guidance for distances less than 50 km or the EPA CALPUFF model for acid deposition for distances greater than 50 km from the source or activity and the respective NPS unit.

4. *The Alaska LNG Project should use the EPA CALPUFF model following the methodologies outlined in the FLAG 2010 guidance document to conduct a visible haze analysis for NPS Alaska units.*

The NPS agrees with the use of the visibility models proposed in Table 3 to assess the impacts to visibility at either distances of less than 50 km with the EPA coherent plume models VISCREEN or PLUVUE II. To calculate impacts of visible haze at the four NPS units at distances of greater than 50 km, the NPS will request that the visible haze analysis use the EPA CALPUFF model, following the methodologies outlined in the FLM's FLAG 2010 guidance document.

#### *Other Comments*

The construction phase air quality analysis, air pollutant emissions to be incorporated in the analysis should include emissions from all sources of air pollutant generating activities such as land preparation, point sources such as concrete and asphalt plants, storage piles of materials, construction equipment, and transportation equipment emissions such as haul trucks and rail transport.

Table 3 for the operations phase air quality analysis, air pollutant emissions to be incorporated in the analysis should include emissions from associated transportation at the LNG facility, including truck, rail and shipping emissions.

While these comments respond to the NEPA process, due to the very close proximity of some of the larger stationary sources to Denali NP and Preserve, the Alaska LNG project should be aware that during the air permitting process Prevention of Deterioration (PSD) the following regulation may apply :

§ 52.21 Prevention of significant deterioration of air quality, 40 CFR 52.21(iii):  
Notwithstanding paragraph (b)(23)(i) of this section, significant means any emissions rate or any net emissions increase associated with a major stationary source or major modification, which would construct within 10 kilometers of a Class I area, and have an impact on such area equal to or greater than 1 microgram per cubic meter (24-hour average).

Finally, the NPS is strongly suggesting that Alaska LNG conduct a meeting or conference call to discuss the requests above. Most likely the Fish and Wildlife Services and the US Forest Service would also like participate in the same meeting. The meeting should cover modeling of the emission rates and locations from the construction phase and explore how best to conduct the air quality analysis of the construction phase. The meeting agenda should also provide for discussion any questions that Alaska LNG has about the above requests as well as issues raised by the other Federal Land Managers.

The NPS appreciates this effort by the Alaska LNG project to develop this preliminary modeling protocol. The NPS welcomes any questions regarding our comments and recommends future discussions to provide additional detail to the requirements for the NEPA Air Quality Analysis for the Alaska LNG project. Please contact John Notar at 303-969-2079 or [john\\_notar@nps.gov](mailto:john_notar@nps.gov) to arrange further discussion, or with any air quality-related concerns and Brooke Merrell at 503-724-5481 or [brooke\\_merrell@nps.gov](mailto:brooke_merrell@nps.gov) with NEPA-related concerns.

Sincerely,



Joan Darnell, Alaska Region Environmental Planning and Compliance, Team Leader

Enclosure

cc:

Margaret Goodro, Superintendent, Lake Clark National Park and Preserve  
Rebecca Lasell, Superintendent, Kenai Fjords National Park  
Greg Dudgeon, Superintendent, Gates of the Arctic National Park and Preserve  
Donald Striker, Superintendent, Denali National Park and Preserve  
John Vimont, Acting Chief, NPS Air Resources Division



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000026-000

July 29, 2015

Joan Damell, Team Manager  
Environmental Planning and Compliance Team  
National Parks Service  
Alaska Region Office  
240 W. 5<sup>th</sup> Avenue  
Anchorage, AK 99501-2327

**Re: Visual/Aesthetics Study Work Plan**

Dear Ms. Damall:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 study plan to conduct surveys that identify visually sensitive resources that may be impacted by the construction and operation of the Alaska LNG project. The goal of this study is to describe existing visual conditions in the Project Planning Area in support of the Federal Energy Research Commission (FERC) application and subsequent Bureau of Land Management (BLM) and State Pipeline Coordinator's Office (SPCO) permits. In addition to identifying visual viewsheds, the study will address those areas of high recreational use that could be sensitive to changes from construction and operation.

We are available to walk through the plan components with the National Park Service's team at your earliest convenience. If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead  
For and on behalf of ExxonMobil LNG, LLC

Enclosure

cc: Jim Martin/FERC (no attachment)  
Project Files

Natural Resources Group

NRG

# Alaska LNG

**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, Alaska 99501

June 8, 2015

Jennifer Lee  
Natural Resources Group  
1500 Southwest First Ave., Suite 885  
Portland, Oregon 97201

**Re: Alaska LNG's EIS Baseline Studies 2015 Summer Field Season Protocols**


Dear Ms Lee:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal. Project development in the waters of Cook Inlet would include a portion of the Mainline which would cross Cook Inlet, and a marine terminal facility for loading of product in LNG Carriers.

As requested in the Agency Workshops of March 17-19, 2015, we are sending you the protocols (to date) for the Project's 2015 field programs supporting the Project and the EIS baseline study for your information.

If you have any questions or information requests, please contact Erika Herlugson at 907.929.4113 or [erika.herlugson@exxonmobil.com](mailto:erika.herlugson@exxonmobil.com).

Sincerely,

 (Erika Herlugson, signing for Karen Wuestenfeld)

Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead  
For and on behalf of ExxonMobil Alaska LNG, LLC



**Attachments**

**2015 Palaeontology Survey Field Study Protocols**

**2015 Noise Monitoring Protocols**

**2015 Wetland Determination Field Survey Protocols**

**2015 Raptor Survey Protocols**

**2015 Cultural Resources Field Study Protocols: Phase I Archaeological Survey and Site Documentation; Phase II Site Evaluation**

**2015 Stream Fish Investigations Field Study Protocols**

**2015 Stream Hydrology Investigations Field Study Protocols**

**2015 Contaminated Site Assessments Field Study Protocols**

**2015 Vegetation Survey Field Study Protocols**

State of Alaska Office of History &  
Archaeology

OHA



**Alaska LNG Project**  
16945 Northchase Drive, DEV-GP4  
Houston, Texas 77060

Ref No.: USAKE-EX-SRZZZ-00-0005

August 13, 2014

Judith Bittner  
State Historic Preservation Officer  
Alaska Department of Natural Resources  
Office of History and Archaeology  
550 W. 7th Avenue, Suite 1310  
Anchorage, Alaska 99501-3565

**Re: Review of Cultural Resources Reports Submitted by the Alaska Pipeline Project and the Alaska LNG Project**

Dear Ms Bittner:

On behalf of the Alaska LNG Project (Project), this letter and its attachments seek your concurrence regarding data to be used in the regulatory approval process for the Project. As discussed in previous meetings with the Alaska Department of Natural Resources, Office of History and Archaeology (OHA) a considerable body of work has been compiled for portions of the Project footprint north of Livengood, Alaska, including data that is common to a previous gas project (Alaska Pipeline Project). The available body of work includes information gathered by the previous project as well as information gathered during supplemental surveys conducted by the Project in 2013. To date you have received the following reports for the Project footprint north of Livengood:

Reference No.	Title	Year
USAKE-UR-SRZZZ-00-0020_B 2013 Report	2013 Phase I Cultural Resource Report, Archaeological Survey and Documentation	2013
USAG-UR-SRZZZ-000030	Phase I Cultural Resources Overview and Survey Report for the Alaska Pipeline Project, Prudhoe Bay, to the Alaska, United States-Canada Border, 2010-2011	2012
USAG-UR-SRZZZ-000010	2010 Cultural Resource Field Study Results, Phase I: Identification Cultural Resource Survey of the Alaska Pipeline Project. Supplemental Report to OHA Permit No. 2010-17	2011

Some of the previously gathered data are no longer applicable or within the proposed Alaska LNG Project footprint; therefore the Project has developed and enclosed the following: an overview of the Cultural Resources Program to explain program objectives and summarize

study results (Attachment A); a site tracking table summarizing the cultural resource sites located within a 300-foot-wide corridor centered on the potential Alaska LNG Mainline Pipeline centerline and the Point Thomson Pipeline centerline (Attachment B); and two mapbooks (one for the Mainline Pipeline and one for the Point Thomson Pipeline) illustrating the locations of the cultural resource sites listed in the summary table. These mapbooks also include sites outside of the study corridor (Attachment C).

The Project requests OHA's review and endorsement of this data set so that it may be used in the upcoming Federal Energy Regulatory Commission application and resulting Environmental Impact Statement. If you have any questions or require further information, please contact Adrienne Rosecrans at (832) 624-2722.

Sincerely,



Ruben Medrano  
Alaska LNG  
Regulatory Lead  
For and on behalf of ExxonMobil Alaska LNG LLC

**Enclosures**

Attachment A: Cultural Resources Program Overview

Attachment B: Site Tracking Table

Attachment C: Alaska LNG Mainline Cultural Resources Mapbook, Point Thomson Pipeline Cultural Resources Mapbook

cc: Project files  
State Pipeline Coordinator's Office



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: LT-AKE-PT-0104-001

October 27, 2014

Judith E. Bittner  
State Historic Preservation Officer  
Alaska Office of History and Archaeology  
550 West 7<sup>th</sup> Avenue, Suite 1310  
Anchorage, AK 99501-3565

**Subject:** Request for Informal Consultation under Section 106 of the National Historic Preservation Act  
FERC Docket No.: PF14-21-000

Dear Ms. Bittner:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Project.

#### **Alaska LNG Project Overview**

The Alaska LNG Project Participants are proposing to construct one integrated liquefied natural gas (LNG) project with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular the Point Thomson Unit and Prudhoe Bay Unit production fields on the Alaska North Slope for export in foreign commerce. The proposed project includes the construction of a liquefaction facility in south central Alaska, an approximately 800-mile mainline gas pipeline, a gas treatment plant on the North Slope, and gas transmission lines connecting the gas treatment plant to the Point Thomson Unit and Prudhoe Bay Unit fields. The mainline gas pipeline will include at least five off-take points to allow for the opportunity for future in-state deliveries of natural gas.

Enclosed with this letter are a general project map and a project overview diagram reflecting the proposed facilities and their planned locations. Additional information on the project can be found at [www.ak-lng.com](http://www.ak-lng.com).

FERC authorizations are required to construct and operate these facilities. The Alaska LNG Project Participants are targeting to file a formal application for the Alaska LNG Project with the FERC in September 2016. FERC authorizations for the project and commencement of construction are anticipated in the 2018 – 2019 timeframe. Pursuant to this schedule, facilities would begin operating in the 2024 – 2025 timeframe.

Proposed facilities will be located in the North Slope Borough, Yukon-Koyukuk Census Area, Fairbanks North Star Borough, southeast Fairbanks Census Area, and the Kenai Peninsula Borough.

#### **FERC Pre-filing Process**

The FERC will be the lead federal agency responsible for implementation of the National Environmental Policy Act (NEPA), and the National Historic Preservation Act (NHPA; 16 USC § 470 as amended). Pursuant to 36 CFR 800; and at 18 CFR Parts 380.12, 380.14, and Appendix A to Part 380; and pursuant to the FERC's *Guidelines for Reporting on Cultural Resources Investigations for Pipelines* (December 2002), Project Participants are asked to consult with the State Historic Preservation Office, Alaska Native Organizations, and/or land-managing agencies as early as possible in the project planning.

Project Participants do not represent the FERC in terms of government-to-government consultations with Alaska Native Tribes. The FERC has an established policy for consulting with Native American tribes, articulated in Order 635, *Policy Statement on Consultations with Indian Tribes in Commission Proceedings* issued July 23, 2003. The FERC will initiate direct consultations with Tribes when it issues its Notice of Intent to Prepare an Environmental Impact Statement (NOI). For all major projects, after the NOI is issued, the FERC will also write letters to Alaska Native Tribes that may attach religious or cultural importance to historic properties in the area of potential effect, and follow up Tribal contacts with emails, telephone calls, or meetings. Feel free to discuss any concerns directly with the FERC archaeological staff by emailing or calling Lori Boros, FERC Archaeologist, at 202-502-8046 (email: [Lori.boros@ferc.gov](mailto:Lori.boros@ferc.gov)).

Project Participants have met numerous times with you and your staff to discuss field survey methodologies for the 2013 and 2014 field seasons, a process for review and acceptance of prior project data, and the Section 106 process in general. However, no formal consultation has been initiated with the OHA regarding the project; therefore, with this letter Project Participants, acting as the FERC's designated non-federal representative for purposes of complying with Section 106 of the NHPA, respectfully requests your input regarding compliance with the relevant historic preservation laws.



On behalf of the Project Participants, we appreciate your assistance with this request. If you have any questions, please contact me at 832-624-2816 or by email at [Charlie.kominas@exxonmobil.com](mailto:Charlie.kominas@exxonmobil.com).

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Lori Boros, FERC  
Jim Martin, FERC  
Dr. Robert King, BLM State Archaeologist  
Project File



11.12.14

330-1R FERC (AKLUG)  
3130-2R SPCO



**Alaska LNG Project**  
16945 Northchase Drive, DEV-GP4  
Houston, Texas 77060

Ref No.: USAI-PE-SALTR-00-0001

November 11, 2014

Ms. Judith Bittner  
Division of Parks and Recreation  
Office of History and Archaeology  
550 W. 7th Avenue, Suite 1310  
Anchorage, AK 99501-3565

**Re:** Cultural Resources Evaluation, Alaska LNG Project – Proposed 2014 Ambient Air  
Quality Station, Alaska LNG Project, Nikiski, Alaska

Dear Ms. Bittner:

ExxonMobil Alaska LNG LLC (EMALL), ConocoPhillips Alaska LNG Company, BP Alaska LNG LLC, TransCanada Alaska Midstream LP, and Alaska Gasline Development Corporation (the "Alaska Parties") are currently working together to progress the Alaska LNG Project ("Project"). The Alaska Parties will be installing an ambient air quality monitoring station to collect necessary information for siting and design of the proposed liquefaction facilities. This station will be located on a privately owned land parcel within the Nikiski area on the Kenai Peninsula. Since the installation of the air quality station includes ground-disturbing activities, EMALL has conducted a cultural resources evaluation for the Area of Potential Effect (APE), consisting of a single 2-acre parcel. Although there is no federal nexus or state permit required to install this station on private land, the Project team is voluntarily conducting an analysis of potential effects to historic resources consistent with cultural surveys performed to support other Alaska LNG project activities in the area.

The air monitoring station installation activities are planned to begin mid-November 2014. EMALL, via our consultant URS, has conducted both desktop and field based cultural resource analysis to determine if any historic properties would be affected in the APE. That evaluation was conducted using the same protocols outlined in the August 22, 2014 letter for Alaska LNG Project Geophysical and Geotechnical Site Investigations. This letter and attached memorandum provides the results and recommendation from that analysis.

The desktop review and on-the-ground reconnaissance of the proposed ambient air monitoring station location examined during the course of the current inventory did not result in the identification of cultural resources. In addition, the study confirmed that no previously documented cultural resources were present within this area. Therefore, EMALL does not anticipate that adverse impacts will occur to cultural resources during construction and operation of this facility. We request concurrence with the finding of "No Historic Properties Affected" from the Alaska State Historic Preservation Office.



Ref No.:

We appreciate and thank you for your cooperation. If you have any questions about the proposed field studies and the enclosed technical memo, please feel free to contact Mr. Jeff Raun at (907) 929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG  
Safety, Security, Health and Environment Manager  
For and on behalf of ExxonMobil Alaska LNG LLC

*MSJ* **No Historic Properties Affected**  
**Alaska State Historic Preservation Officer**  
**Date:** *11.12.14* **File No.:** *380-1R FERC*  
**Please review 36 CFR 800.137 A.S. 41.35.070(d)**

Enclosure(s)

URS Memorandum Subject: Desktop and Survey of Proposed 2014 Ambient Air Quality Station,  
Alaska LNG Project, Nikiski, Alaska dated October 15, 2014

From: "Johnson, McKenzie S (DNR)" <[mckenzie.johnson@alaska.gov](mailto:mckenzie.johnson@alaska.gov)>  
Date: November 12, 2014 at 3:31:28 PM AKST  
To: "Raun, Jeff /C" <[jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com)>  
Cc: "Miller, Shannon D (PCO)" <[shannon.miller@alaska.gov](mailto:shannon.miller@alaska.gov)>  
Subject: AKLNG Ambient Air Quality Station Nikiski, SHPO Review

USAI-PE-SAEML-00-000001-000

Jeff,

Ms. Bittner forwarded the subject project for review (per Shannon's request). I have attached our stamped concurrence with a finding of 'No Historic Properties Affected'. We were able to expedite the review process this time, but as a reminder we technically have 30 days to respond to requests for concurrence; this quick of turn-around is not always feasible. Thank you for the opportunity to comment and review. Please let me know if I can assist further.

Mckenzie S. Johnson  
Archaeologist I, Review and Compliance  
Alaska State Historic Preservation Office/Office of History and Archaeology  
550 W. 7th Avenue, Suite 1310  
Anchorage, AK 99501-3565  
907-269-8726 [mckenzie.johnson@alaska.gov](mailto:mckenzie.johnson@alaska.gov)



**Alaska LNG Project**

10613 West Sam Houston Parkway N  
Suite 500  
Houston, Texas 77064

Ref No.: USAI-PE-SALTR-00-000006-000

February 3, 2015

Ms. Judith Bittner  
Division of Parks and Recreation  
Office of History and Archaeology  
550 W. 7th Avenue, Suite 1310  
Anchorage, AK 99501-3565

**Re: 2014 Phase I Cultural Resources Inventory Report, Nikiski, Alaska**

Dear Ms. Bittner:

In support of the Alaska LNG Project, ExxonMobil Alaska LNG LLC (EMALL) commissioned URS Corporation (URS) to evaluate potential effects to historic resources in the Nikiski area for the proposed liquefaction facility component of the Project. The survey was accomplished through the application of archaeological sensitivity analysis of the project footprint, pedestrian survey, and shovel testing. Previous survey efforts were documented in a technical memorandum submitted to your office on August 22, 2014. Concurrence of a finding of "no historic properties affected" for the 2014 Nikiski geophysical and geotechnical program was received from your office on August 27, 2014 (File No. 3130-1R FERC AK LNG, 3130-2R SPCO AK LNG).

In 2014, 100 parcels were subject to cultural survey, the results of which are included in the enclosed report titled *2014 Phase I Cultural Resources Inventory Report for the Proposed Liquefaction Facility Component of the Alaska LNG Project, Nikiski, Alaska*. The 2014 survey efforts identified eleven historic, mid to late 20<sup>th</sup> Century, resource locations comprised of eight archaeological sites and three isolated finds.

Based on National Register of Historic Places (NRHP) evaluations in the enclosed report, none of the eleven resources are recommended as eligible for the NRHP and no additional work is recommended. We request your concurrence with our recommendations of NRHP eligibility for these eleven resources.

Additional shovel testing to confirm absence of buried archaeological materials is recommended in areas of some parcels identified as having higher archaeological sensitivity. Further shovel probing in these areas is anticipated to occur in the 2015 field season.

We appreciate and thank you for your cooperation. If you have any questions about the field studies and the enclosed inventory report, please feel free to contact Mr. Jeff Raun at (907) 929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG Safety, Security, Health and Environment Manager  
ExxonMobil Development Company  
For and on behalf of ExxonMobil Alaska LNG LLC

**Enclosure(s)**

2014 Phase I Cultural Resources Inventory Report for the Proposed Liquefaction Facility  
Component of the Alaska LNG Project, Nikiski, Alaska

cc:

Shina duVall, SHPO  
Shannon Miller, SPCO

# MEMORANDUM

Department of Natural Resources

State of Alaska

Division of Parks and Outdoor Recreation  
Office of History & Archaeology**TO:** Shannon Miller  
DNR, State Pipeline Coordinator's Office**DATE:** February 12, 2015**FILE NO:** 3130-1R FERC AK LNG  
3130-2R SPCO AK LNG**FROM:** Judith E. Bittner  
*JEB* - State Historic Preservation Officer**TELEPHONE NO.:** 269-8720**SUBJECT:** 2014 Phase I Cultural Resources Inventory  
Report, Nikiski, Alaska

The Alaska State Historic Preservation Office (AKSHPO) received notice from your office and ExxonMobil Alaska LNG, LLC regarding the subject cultural resources inventory report. We also appreciated the opportunity to meet with representatives from your office, ExxonMobil, and their consultants regarding the report and its recommendations on February 5, 2014. Following our review of the documentation provided, we offer the following comments:

We concur with the determination that the following sites are **not eligible** for the National Register of Historic Places (NRHP): KEN-00642, KEN-00643, KEN-00644, KEN-00645, KEN-00646, KEN-00647, KEN-00648, KEN-00649, KEN-00650, KEN-00651, and KEN-00652.

Thank you for the opportunity to comment. We look forward to continued consultation on the subject project. Please contact Shina duVall at 269-8720 or [shina.duvall@alaska.gov](mailto:shina.duvall@alaska.gov) if you have any questions or if we can be of further assistance.

cc by email: Jeff Raun, ExxonMobil

# Alaska LNG

**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-EX-SALTR-00-000008-000

May 1, 2015

Richard Vanderhoek  
Office of History and Archaeology  
Alaska Department of Natural Resources  
550 W. 7<sup>th</sup> Ave. Suite 1260  
Anchorage, AK 99501-3557

**Re: Evaluating the Presence of Submerged Cultural Resources in Cook Inlet**

Dear Mr. Vanderhoek:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and Marine Terminal. Project development in the waters of Cook Inlet would include a portion of the Mainline which would cross Cook Inlet, and a Marine Terminal facility for loading of product in LNG Carriers.

As reviewed with you on April 17, 2015, Attachment 1 of this letter reflects the Project's planned methodology for evaluating the presence of submerged cultural resources in Cook Inlet in the Project's marine Area of Potential Effect (APE; preliminary area shown in Attachment 2) in order to satisfy site identification requirements of Section 106 of the National Historic Preservation Act of 1966 (NHPA, as amended) found in 36 CFR 800.4.

We respectfully request your concurrence that for the Cook Inlet marine aspects of the project the approach as outlined in Attachment 1 will satisfy Section 106 NHPA site identification requirements codified in 36 CFR 800.4.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG Project  
Safety, Security, Health and Environment Manager  
For and on behalf of ExxonMobil Alaska LNG, LLC



**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000011-000

May 15, 2015

Richard Vanderhoek  
Office of History and Archaeology  
Alaska Department of Natural Resources  
550 W. 7<sup>th</sup> Ave. Suite 1260  
Anchorage, AK 99501-3557

**Re: Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations**

Dear Dr. Vanderhoek:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 field work plan detailing proposed methods for determining National Register of Historic Places (NRHP) eligibility at specific, select archaeological sites within the project footprint.

Upon your review of the plan, we would like to arrange a meeting to seek your input and agreement with our proposed methods.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

  
Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead



**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000018-000

May 29, 2015

Shina Duvall  
Office of History and Archaeology  
Alaska Department of Natural Resources  
550 W. 7<sup>th</sup> Ave. Suite 1260  
Anchorage, AK 99501-3557

**Re: Alaska LNG's Proposed Phase II Site-Specific Methodology for Evaluation National Register of Historic Places (NRHP) Eligibility**

Dear Ms. Duvall:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal. Project development in the waters of Cook Inlet would include a portion of the Mainline which would cross Cook Inlet, and a marine terminal facility for loading of product in LNG Carriers.

We provided you with the document detailing our proposed Phase II methods for evaluating National Register of Historic Places (NRHP) eligibility at specific prehistoric and historic sites in the Project corridor on May 19, 2015, and reviewed the proposed methods with you on May 27, 2015.

We respectfully request your concurrence that the proposed site-specific methodology as outlined in our Phase II Site-Specific Protocols document, and discussed with you on May 27, is adequate for evaluating NRHP eligibility.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "Karen S. Wuestenfeld".

Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead  
For and on behalf of ExxonMobil Alaska LNG, LLC



# MEMORANDUM

Department of Natural Resources

State of Alaska

Division of Parks and Outdoor Recreation  
Office of History & Archaeology**TO:** Shannon Miller  
DNR, State Pipeline Coordinator's Office**DATE:** June 8, 2015**FILE NO:** 3130-1R FERC AK LNG  
3130-2R SPCO AK LNG**FROM:** Judith E. Bittner   
State Historic Preservation Officer**TELEPHONE NO.:** 269-8720**SUBJECT:** 2015 Proposed Phase II Site-Specific  
Methodology for Evaluation of NRHP-Eligibility

The Alaska State Historic Preservation Office (AKSHPO) received documentation from the Alaska LNG Project regarding the proposed methods for evaluating the National Register of Historic Places (NRHP) eligibility of a select list of prehistoric and historic sites in the Project corridor. Following our review of the documentation provided as well as our discussions in a meeting on May 27, we have no objection to the proposed approach for completing these determinations of eligibility (DOE). We look forward to receiving a report of the results of the effort. We will review the recommended DOEs and respond with our concurrence or comments at that time.

Thank you for the opportunity to comment. We look forward to continued consultation on the subject project. Please contact Shina duVall at 269-8720 or [shina.duvall@alaska.gov](mailto:shina.duvall@alaska.gov) if you have any questions or if we can be of further assistance.

cc by email: Caryn Rea, Alaska LNG

# MEMORANDUM

Department of Natural Resources

State of Alaska

Division of Parks and Outdoor Recreation  
Office of History & Archaeology

**TO:** Shannon Miller  
DNR, State Pipeline Coordinator's Office

**DATE:** July 2, 2015

**FILE NO:** 3130-1R FERC AK LNG  
3130-2R SPCO AK LNG

**FROM:** Judith E. Bittner  
State Historic Preservation Officer

**TELEPHONE NO.:** 269-8720

**SUBJECT:** Proposed Methodology for Evaluating the  
Presence of Submerged Cultural Resources in Cook Inlet

The Alaska State Historic Preservation Office (AKSHPO) received documentation from the Alaska LNG Project regarding the proposed methods for evaluating the presence of submerged cultural resources in Cook Inlet on May 4, 2015. Following our review of the documentation provided, we have no objection to the proposed area of potential effects or the proposed identification and evaluation approach. We look forward to receiving a report of the results of the effort. We will review the recommended DOEs and respond with our concurrence or comments at that time.

Thank you for the opportunity to comment. We look forward to continued consultation on the subject project. Please contact Shina duVall at 269-8720 or [shina.duvall@alaska.gov](mailto:shina.duvall@alaska.gov) if you have any questions or if we can be of further assistance.

cc by email: Ned Gaines, AECOM

2015-01251



**Alaska LNG Project**

3201 C Street; Suite 506  
Anchorage, Alaska 99503

Ref No.: USAI-PE-SALTR-00-000042-000

January 28, 2016

Richard Vanderhoek, PhD  
State Archaeologist  
Office of History and Archaeology  
Alaska Department of Natural Resources  
550 W. 7<sup>th</sup> Ave. Suite 1310  
Anchorage, AK 99501-3557

**Re: 2015 Phase I Cultural Resources Survey Report and 2015 Paleontological Resources Survey & Inventory Report for the Proposed Alaska LNG Project**

Dear Dr. Vanderhoek:

The Alaska Gasline Development Corporation (AGDC), BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, and ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LLP (a wholly-owned affiliate of AGDC, and with AGDC, collectively referred to herein as "AGDC") (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce and opportunities for in-state deliveries of natural gas.

Enclosed please find one (1) hard copy of the final 2015 Phase I Cultural Resources Survey report and one (1) hard copy of the final 2015 Paleontological Resources Survey and Inventory report for the proposed Alaska LNG Project. Also enclosed is one (1) CD copy of each report. These are being submitted per the stipulations of the Office of History and Archaeology Cultural Resource Use Permit 2015-11. The required OHA cover sheet is also enclosed.

We look forward to the opportunity of working with your office again in the upcoming 2016 field season.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "Karen Wuestenfeld".

Karen Wuestenfeld  
EIS Lead  
For and on behalf of Applicants

cc: Laurie Boros, FERC



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

Department of Natural Resources

DIVISION OF PARKS & OUTDOOR RECREATION  
Office of History & Archaeology

550 West 7<sup>th</sup> Ave., Suite 1310  
Anchorage, Alaska 99501-3565  
Main: 907 269.8721  
<http://dnr.alaska.gov/parks/oha>

September 15, 2016

File No.: 3130-2R SPCO / 3130-1R FERC AK LNG  
**3330-6:** KEN-00656 and LIV-00778  
**3330-6N:** PSM-00580

Philip Brinkmann  
Licensing Manager  
Alaska LNG Project  
3201 C Street; Suite 506  
Anchorage, Alaska 99503

Subject: Determinations of National Register Eligibility for KEN-00656, LIV-00778, and PSM-00580

Dear Mr. Brinkmann:

The Alaska State Historic Preservation Office (AK SHPO) received your correspondence on September 13, 2016 requesting our concurrence on two determinations of eligibility for sites KEN-00656 and LIV-00778. In addition, on August 22, 2016, we received a corrected site form for PSM-00580 with a request for our final concurrence on its National Register eligibility as well. Following our review of the documentation provided, we concur that KEN-00656 and LIV-00778 are **eligible** for the National Register of Historic Places (NRHP) under Criterion D. Further, we concur that PSM-00580 is **not eligible** for the NRHP.

Thank you for the opportunity to comment. We look forward to continued consultation on the subject project. Please contact Shina duVall at 269-8720 or [shina.duvall@alaska.gov](mailto:shina.duvall@alaska.gov) if you have any questions or if we can be of further assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Judith E. Bittner".

Judith E. Bittner  
State Historic Preservation Officer  
JEB:sad

ecc: Caryn Rea, ExxonMobil  
Molly Proue, NLURA



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

**Department of Natural Resources**

DIVISION OF PARKS & OUTDOOR RECREATION  
Office of History & Archaeology

550 West 7<sup>th</sup> Ave., Suite 1310  
Anchorage, Alaska 99501-3565  
Main: 907 269.8721  
<http://dnr.alaska.gov/parks/oha>

September 30, 2016

File No.: 3130-2R SPCO / 3130-1R FERC AK LNG  
**3330-6:** BET-00081, BET-00213, CHN-00021, CHN-00124, CHN-00125, FAI-02390,  
PSM-00588, WIS-00436, and WIS-00437  
**3330-6N:** BET-00139, BET-00201, CHN-00076, PSM-00188, PSM-00600, and TAL-  
00208

Philip Brinkmann  
Licensing Manager  
Alaska LNG Project  
3201 C Street; Suite 506  
Anchorage, Alaska 99503

Subject: Determinations of National Register Eligibility for 15 Sites within the 2016 AK LNG Project Area

Dear Mr. Brinkmann:

The Alaska State Historic Preservation Office (AK SHPO) received your correspondence on September 26, 2016 requesting our concurrence on fifteen determinations of eligibility for sites recorded within the 2016 AK LNG Project Area. Following our review of the documentation provided, we concur that BET-00081, BET-00213, CHN-00021, CHN-00124, CHN-00125, FAI-02390, PSM-00588, WIS-00436, and WIS-00437 are **eligible** for the National Register of Historic Places (NRHP) under Criterion D. Further, we concur that BET-00139, BET-00201, CHN-00076, PSM-00188, PSM-00600, and TAL-00208 are **not eligible** for the NRHP.

Thank you for the opportunity to comment. We look forward to continued consultation on the subject project. Please contact Shina duVall at 269-8720 or [shina.duvall@alaska.gov](mailto:shina.duvall@alaska.gov) if you have any questions or if we can be of further assistance.

Sincerely,

A handwritten signature in black ink that reads "Judith E. Bittner".

Judith E. Bittner  
State Historic Preservation Officer  
JEB:sad

ecc: Caryn Rea, ExxonMobil  
Molly Proue, NLURA

RE Iditarod Dog Sledding area Multiple Property Document.txt  
From: Duval I, Shi na A (DNR) <shi na. duval I@al aska. gov>  
Sent: Friday, March 03, 2017 2:48 PM  
To: Nancy Porter  
Subject: RE: Iditarod Dog Sledding area Multiple Property Document  
Attachments: FA1038.pdf; PMRE-IditarodMultipleProperty-021315\_Final\_Combined-small.pdf

Hi Nancy,

I can send this report to you (attached), but perhaps at some point we can discuss some of the background on this? There are also a number of reports cited therein or incorporated by reference that should also be consulted. It's kind of a complicated set of resources. I have also attached some correspondence exchanged between our office and the ARRC regarding some outstanding concerns on the report.

You may contact Jeff Weinberger in our office to obtain access to AHRS again.

Best regards,  
Shi na

Shi na duVal I, RPA  
Archaeologist, Review and Compliance Coordinator  
Alaska State Historic Preservation Office / Office of History and Archaeology  
550 W. 7th Ave., Suite 1310  
Anchorage, Alaska 99501  
907-269-8720 (phone) 907-269-8908 (fax)  
shi na. duval I@al aska. gov

OHA is updating Alaska's historic preservation plan and wants to know what historic places matter to you. Please share your thoughts by taking a short survey that is available online at:  
<http://www.surveymonkey.com/r/AKHPP>

From: Nancy Porter [mailto:Nancy.Porter@exp.com]  
Sent: Thursday, March 02, 2017 2:45 PM  
To: Duval I, Shi na A (DNR) <shi na. duval I@al aska. gov>  
Subject: Iditarod Dog Sledding area Multiple Property Document

Good Afternoon Ms. Duval I,

I'm working in Resource Report 4 for the Alaska AGDC project and would like to be able to peruse the subject doc. Is it possible for someone in the AHRS department to attach same to an e-mail or is the document considered sensitive? I've had AHRS access in the past, but don't think it's still active. Thanks for your help.

Porter

Nancy Porter  
Senior Environmental Project Manager  
Cultural Resources Specialist  
exp Energy Services Inc.

RE Iditarod Dog Sledding area Multiple Property Document.txt  
t: (713) 439-3601  
f: (713) 963-9085  
m: (773) 241-4173  
1800 West Loop South, Ste. 850  
Houston, Texas 77027  
USA

U.S. Department of Transportation Pipeline  
and Hazardous Materials Safety  
Administration

PHMSA



# Alaska LNG

**Alaska LNG Project**  
Pipeline Engineering  
237 4th Ave SW  
Calgary, AB T2P 0H6  
CANADA

USAP-PP-RALTR-10-000001-000

28 April 2015

Mr. John A. Gale, Director  
Office of Standards and Rulemaking (PHP-30)  
PHMSA, U.S. Department of Transportation,  
1200 New Jersey Avenue, SE  
Washington, DC 20590-0001  
USA

**Re: Request for Interpretation of 49 CFR §192.112(b)(3) and §192.112(b)(2)(iii) with respect to crack arrestor spacing for gas transmission lines**

Dear Mr. Gale:

Our project has performed fracture control calculations in accordance with §192.112(b)(1) and found that the fracture arrest requirements of §192.112(b)(2)(iii) cannot be intrinsically obtained with modern X80 line pipe given our anticipated 2,075 psi design pressure, 42" diameter gas transmission line. We plan to utilize an alternative maximum allowable operating pressure design. Therefore, we plan to design crack arrestors with a spacing of 8 joints to meet the requirements of §192.112(b)(3). We are seeking confirmation in this request for interpretation regarding fracture control crack arrestor requirements under 49 CFR Part 192.112(b).

## **Background**

The regulation at 49 CFR Part 192.112(b)(3) states that

*If it is not physically possible to achieve the pipeline toughness properties of paragraphs (b)(1) and (2) of this section, additional design features, such as mechanical or composite crack arrestors and/or heavier walled pipe of proper design and spacing, must be used to ensure fracture arrest as described in paragraph (b)(2)(iii) of this section.*

§192.112(b)(2)(iii) goes on to state that fracture control must

*ensure at least 99 percent probability of fracture arrest within eight pipe lengths with a probability of not less than 90 percent within five pipe lengths*

The language in Part 192.112 (b)(2)(iii) is based on the common approach of specifying pipe toughness requirements such that 50% of pipe joints will be capable of arresting a running ductile fracture. With 50% of pipe joints arresting a crack, the 99% probability in eight joints and 90% probability in five joints criteria are satisfied. It is not clear how this requirement is applied with the use of mechanical crack arrestors since every crack arrestor is expected to arrest a running ductile fracture, and there is no guidance on this in consensus standards.

In PHMSA's March 8, 2011 letter to the Alaskan Pipeline Project, it communicated the following with respect to "Crack arrestor spacing" (emphasis added):

*As prescribed in 49 CFR § 192.112(b), a pipeline that operates under the alternative MAOP provisions of Part 192 must be able to demonstrate that failure cracks will self-arrest within five (5) pipe joints with 90% probability, or within eight (8) pipe joints with 99% probability.*

The PHMSA letter to APP, which includes the conjunction "or" between the two probabilistic requirements, indicates that ensuring arrest within eight (8) pipe lengths is sufficient to meet the regulatory requirements.

**Request for Interpretation**

AKLNG believes that a crack arrestor spacing of eight joints, with each arrestor designed to arrest a running ductile fracture, meets the requirements of §192.112(b)(3) and §192.112(b)(2)(iii). Confirmation of this interpretation is requested.

Thank you for your consideration of this request for interpretation.

Sincerely,



Rick Noecker  
PHMSA Filing Coordinator  
AKLNG Project, Pipeline Engineering  
#19025, 237- 4th Ave SW  
Calgary, Alberta T2P 0H6

587-476-4891 (voice)  
587-582-9666 (mobile)  
rick.noecker@exxonmobil.com



U.S. Department  
of Transportation

Pipeline and Hazardous  
Materials Safety  
Administration

1200 New Jersey Avenue, SE  
Washington, D.C. 20590

SEP 28 2015

Mr. Rick Noecker  
PHMSA Filing Coordinator  
Alaska LNG  
#19025, 237- 4th Ave SW  
Calgary, Alberta T2P OH6, Canada

Dear Mr. Noecker:

In a letter to the Pipeline and Hazardous Materials Safety Administration (PHMSA) dated April 30, 2015, you requested an interpretation on 49 CFR 192.112(b)(3) and 192.112(b)(2)(iii) with respect to crack arrestor spacing for gas transmission lines.

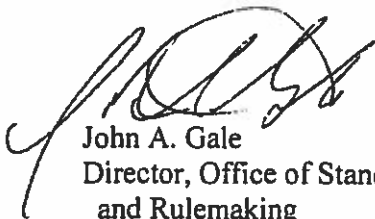
You stated that you performed fracture control calculations in accordance with § 192.112(b)(1) and found that the fracture arrest requirements of § 192.112(b)(2)(iii) cannot be intrinsically obtained with modern X-80 line pipe for an anticipated 2,075 psi design pressure, 42" diameter gas transmission line. You plan to utilize an alternative maximum allowable operating pressure design with crack arrestor spacing of 8 joints to meet the requirements of § 192.112(b)(3). You are seeking guidance regarding fracture control crack arrestor requirements under 49 CFR Part 192.112(b). Specifically, you asked how the § 192.112(b)(2)(iii) requirement is applied with the use of mechanical crack arrestors since every crack arrestor is expected to arrest a running ductile fracture, and you stated that there is no guidance on this in industry consensus standards.

Section 192.112(b) requires the remediation of potential pipe crack initiation, propagation, and arrest of fractures to be based upon the full range of gas compositions, operating pressures, operating temperatures, pipe grades, and maximum operating stresses including maximum pressures and minimum temperatures for shut-in conditions that the pipeline will experience during its operating life. The fracture control described in § 192.112(b) limits the maximum fracture length to 8 pipe joints with a 99 percent probability of arrest through several possible methods an operator may select, which may include higher pipe toughness, heavier walled pipe, crack arrestors (either mechanical or composite) or a combination of these methods.

The Pipeline and Hazardous Materials Safety Administration, Office of Pipeline Safety provides written clarifications of the Regulations (49 CFR Parts 190-199) in the form of interpretation letters. These letters reflect the agency's current application of the regulations to the specific facts presented by the person requesting the clarification. Interpretations do not create legally-enforceable rights or obligations and are provided to help the public understand how to comply with the regulations.

Therefore, it is your responsibility to make sure that the methods chosen are appropriate to the relevant operating factors and § 192.112 requirements are met. I hope that this information is helpful to you. If we can be of further assistance, please contact Tewabe Asebe of my staff at 202-366-5523.

Sincerely,



John A. Gale  
Director, Office of Standards  
and Rulemaking

The Pipeline and Hazardous Materials Safety Administration, Office of Pipeline Safety provides written clarifications of the Regulations (49 CFR Parts 190-199) in the form of interpretation letters. These letters reflect the agency's current application of the regulations to the specific facts presented by the person requesting the clarification. Interpretations do not create legally-enforceable rights or obligations and are provided to help the public understand how to comply with the regulations.



**Alaska LNG Project**  
Pipeline Engineering  
237 4th Ave SW  
Calgary, AB T2P 0H6  
CANADA

USAP-PP-KALTR-00-000001-000

16 October 2015

Mr. John A. Gale, Director  
Office of Standards and Rulemaking (PHP-30)  
PHMSA, U.S. Department of Transportation,  
1200 New Jersey Avenue, SE  
Washington, DC 20590-0001  
USA

**Re: Request for Interpretation of the cover requirements for the Cook Inlet pipeline crossing and the applicability of 49 CFR §192.327(f)(2)**

Dear Mr. Gale:

The Alaska LNG (AKLNG) Project is being developed to condition Alaska North Slope (ANS) natural gas and transport it to a tidewater port near Nikiski on the Cook Inlet for liquefaction and loading to liquefied natural gas (LNG) marine vessels. The project participants include the Alaska Gasline Development Corporation (AGDC) and affiliates of ExxonMobil, ConocoPhillips, BP and TransCanada Pipelines. The proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 1,287-km (800-mi), large-diameter natural gas pipeline from the North Slope.

ExxonMobil Alaska LNG LLC (EMALL) is leading the design and engineering of the Project facilities, including a large diameter gas transmission pipeline that will cross the Cook Inlet in Alaska. EMALL is seeking confirmation that 1) the Cook Inlet is considered "Offshore" for the purposes of CFR 192 and 2) that 49 CFR Part 192.327(f)(2) details the cover requirements for the pipeline segment that crosses the Cook Inlet.

#### **Background**

In response to Request for Interpretation PI-97-100, PHMSA identified the Cook Inlet waters as "Offshore" with the following statements:

*"The lines in Cook Inlet are offshore... "Offshore" means beyond the line of ordinary low water along the portion of the coast of the United States that is in direct contact with the open seas and beyond the line marking the seaward limit of inland waters."*

*"Cook Inlet waters are considered offshore as they are in direct contact with the open sea and not categorized as "inland waters". Inland waters are specifically established by the US Coast Guard under 33 CFR 80.01."*

U.S. Coast Guard Title 33 CFR 80.01 goes on to state:

*The regulations in this part establish the lines of demarcation delineating those waters upon which mariners shall comply with the International Regulations for Preventing Collisions at Sea, 1972 (72 COLREGS) and those water upon which mariners shall comply with the Inland Navigation Rules.*

*The waters inside of the lines are Inland Rules waters. The waters outside the lines are COLREGS waters.*

U.S. Coast Guard Title 33 CFR 80.1705 declares that:

*The 72 COLREGS shall apply on all the sounds, bays, harbors, and inlets of Alaska.*

For offshore pipelines, the requirements for cover are covered in 49 CFR 192.327(f)(2), which states:

*(f) All pipe installed offshore, except in the Gulf of Mexico and its inlets, under water not more than 200 feet (60 meters) deep, as measured from the mean low tide, must be installed as follows:*

*(2) Pipe under water at least 12 feet (3.66 meters) deep must be installed so that the top of the pipe is below the natural bottom, unless the pipe is supported by stanchions, held in place by anchors or heavy concrete coating, or protected by an equivalent means.*

#### **Request for Interpretation**

Based on the foregoing, the Cook Inlet is considered Offshore in the context of PHMSA's regulations per CFR 192. The Project pipeline as it crosses Cook Inlet, therefore, is an offshore pipeline that is subject to the cover requirements of 49 CFR Part 192.327(f)(2). According to that provision, the Cook Inlet crossing pipeline does not need to be buried so long as it is "supported by stanchions, held in place by anchors or heavy concrete coating, or protected by an equivalent means. EMALL respectfully requests PHMSA's confirmation of this interpretation.

Thank you for your consideration of this request for interpretation. If you have any questions, please contact me at 587-476-4891 or [rick.noecker@exxonmobil.com](mailto:rick.noecker@exxonmobil.com).

Sincerely,



Rick Noecker  
PHMSA Filing Coordinator  
AKLNG Project, Pipeline Engineering  
For and On Behalf of EMALL



U.S. Department of Transportation

Pipeline and Hazardous Materials  
Safety Administration

1200 New Jersey Ave., SE  
Washington, DC 20590

August 26, 2016

Sandra Barnett  
Senior Federal Permits Advisor  
Alaska LNG  
10613 West Sam Houston Pkwy N Suite 500,  
Houston TX 77064

**Re: Alaska LNG Project –Acceptability of Concrete LNG Storage Tank Design  
FERC Docket PF14-21-000**

Dear Sandra,

The Pipeline and Hazardous Materials Safety Administration (PHMSA) is responding to a request by the Alaska LNG Project to consider the acceptability of an LNG storage tank technology that has not been implemented in a modern plant, and is not well addressed by the current codes and regulations. Because the precast all concrete LNG (PAC-LNG) storage tank technology has been selected as the base case for the Alaska LNG project, PHMSA has been asked to provide an opinion on the applicability of the current codes and standards to such a tank design, for application within the regulation of 49 CFR 193.

PHMSA has reviewed the Alaska LNG document USAL-PL-PRTEC-80-000001-000, titled *Report on Equivalency of NFPA 59A-2001, 2006 and 2013 Editions*, dated 26 July 2016. That document is the basis for this review.

As you are aware, 49 CFR 193 does not contain any specific language that addresses the PAC-LNG technology. Currently, 49 CFR 193 incorporates by reference the 2001 version of the National Fire Protection Association (NFPA) 59A standard. 59A-2001 does not specifically refer to or exclude the PAC-LNG design, but instead refers to several standards written by the American Concrete Institute (ACI).

As outlined in the above mentioned document, the requirements for concrete in cryogenic applications (such as for LNG storage tanks) have changed significantly since the 2001 version of NFPA 59A. The primary change is the reliance on a standard developed by ACI at the request of the NFPA 59A committee – ACI 376-2011, *Code Requirements for Design and Construction of Concrete Structures for the Containment of Refrigerated Liquefied Gases and Commentary*. This standard provides replacement of previous ACI standards that were reference by NFPA 59A, as well as an expanded treatment for cryogenic concrete.

In principle, PHMSA agrees with the presentation of equivalency shown in the Alaska ALNG document and has no objection to the use of precast all concrete storage tanks, provided that they are designed, fabricated, and constructed according to the ACI 376 standard.

PHMSA will continue to work with the Alaska LNG Project to confirm compliance with the siting and design requirements of Part 193 as needed.

If I can be of further assistance, please contact me by phone at 202-366-2694.

Sincerely,



Kenneth Lee  
Director, Engineering and Research  
Office of Pipeline Safety

Xc: Andrew Kohout - Chief, LNG Engineering and Compliance, Office of Energy Projects  
Federal Energy Regulatory Commission



State of Alaska Pipeline Coordinator's Office  
SPCO

ExxonMobil Development Company  
16945 Northchase Drive, DEV-GP4-498  
Houston, Texas 77060  
281-654-3289  
281-654-3212 Fax

Charlie Kominas  
Alaska South Central LNG Project  
Environmental, Regulatory and Land Manager



July 1, 2013

Doc. No. L-AKE-EDHO-NRAK-13-0013

Mr. Mike Thompson  
State Pipeline Coordinator  
411 West 4<sup>th</sup> Avenue, Suite 2  
Anchorage, Alaska 99501

RE: Alaska South Central LNG Project  
Description of Work Activities for Next Fiscal Year

Dear Mr. Thompson:

This letter addresses the "Agreements" Section I.1 of the Reimbursement Services Agreement Between ExxonMobil Alaska Production Inc. and the Alaska Department of Natural Resources for the Alaska South Central LNG (SCLNG) Project to advise the State Pipeline Coordinators (SPCO) of any work planned during the next fiscal year (July 1, 2013 to June 30, 2014). At this time, the SCLNG Project plans to complete the various reports required by SPCO and other agencies following the 2013 summer field studies program and begin planning for potential future field studies. The SCLNG Project will inform the SPCO as soon as additional work scope is confirmed for the next fiscal year so that the agency may further enhance its Initial Work Plan and budget estimate as described in the Agreement.

If there are any questions or you require further information, please feel free to call me at (281) 654-3289 or Molly Birnbaum at (907) 929-4107.

Sincerely,

A handwritten signature in black ink, appearing to read "Charlie Kominas".

Charlie Kominas  
Alaska South Central LNG Project  
Environmental, Regulatory and Land Manager  
For and on behalf of ExxonMobil Alaska Production Inc.

CC: Chris Grundman (SPCO)

ExxonMobil Development Company  
16945 Northchase Drive, DEV-GP4-498  
Houston, Texas 77060  
281-654-3289  
281-654-3212 Fax

Charlie Kominas  
Alaska LNG Project  
Environmental, Regulatory and Land Manager



April 29, 2014

USAKE-PT-SGPER-00-0008-008

Mr. David de Gruyter  
State Pipeline Coordinator  
411 West 4<sup>th</sup> Ave, Suite 2  
Anchorage, Alaska 99501

RE: Alaska LNG - FY 2014 Reimbursable Services Agreement Work Scope

Dear Mr. de Gruyter,

The purpose of this letter is to address Section 1.2 of the Reimbursable Services Agreement between ExxonMobil Alaska Production Inc. and the Alaska Department of Natural Resources (ADNR) by amending the work plan for fiscal year 2014 (July 1, 2014 through June 30, 2015). As discussed with the State Pipeline Coordinator's Office (SPCO) in recent planning meetings, the Alaska LNG Project is planning 2014 field season activities that will continue through this calendar year. Additional potential work scopes extending beyond this summer season are also included; however, the schedules and activity details are less defined. The intent of this letter is to identify our planned work activities that will likely require input and coordination with state agencies this fall and continue into the first half of 2015. Should activities change or additional activities be considered, we will communicate with your office and update the Work Plan as needed.

Scope of Work/Services – Amendment 1


No.	FY2014 Activity	State Agencies	Work Services Requested	Estimated Schedule
1.	Marine metocean permitting activities  [midstream, downstream]	SPCO, DNR/ML&W, DNR/ SHPO, ADF&G	<ul style="list-style-type: none"><li>In 2013, the Alaska LNG project (Project) installed three seabed frame-mounted ADCP units to collect data on current profile and ice. Units are self-contained and will be serviced twice per year. In 2014, additional units will be installed to gather data within potential pipeline crossing areas.</li><li>A Horizontal Acoustic Doppler Current Profiler (H-ADCP) and a Wave, Sea Level, &amp; Air Gap Sensor will be installed at the existing Kenai LNG facility dock (operated by ConocoPhillips) to measure current and ice properties of the offshore area.</li></ul> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for land use permit requirements for installation of marine survey equipment.</p>	4/15/14 - 6/30/15  (ongoing)

2.	Cook Inlet Geophysical surveys  [midstream, downstream]	SPCO, DNR/ML&W, DNR/SHPO, ADF&G	<p><i>Onshore LNG facility vicinity:</i></p> <ul style="list-style-type: none"> <li>• Geophysical - shallow seismic refraction, EM survey, and deep seismic reflection, seismograph</li> </ul> <p><i>Marine (LNG Facility and Pipeline) - vessel based shoreline LiDAR, magnetometer, and sub-bottom profiling, bathymetric survey (multibeam &amp; side scan)</i></p> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for land use permit requirements for implementation of marine survey scopes.</p>	5/1/14 - 6/30/15  (ongoing)
3.	Onshore LNG site Geotechnical  [downstream]	SPCO, DNR/ML&W, DNR/SHPO, ADF&G	<p><i>Geotechnical – land</i> borings, sediment/biological sampling, monitoring wells, and downhole Geophysics</p> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for land use and environmental permit for implementation of onshore geotechnical scopes.</p>	5/1/14 - 6/30/15  (ongoing)
4.	Cook Inlet Geotechnical  [downstream, midstream]	SPCO, DNR/ML&W, DNR/SHPO, ADF&G, ADEC/DW and ADEC/other	<p><i>Geotechnical – marine</i> The marine geotechnical program will include drilling geotechnical boreholes below the sea bottom at various locations in Cook Inlet to evaluate subsurface conditions and material properties. All geotechnical boreholes are planned to be drilled in state waters.</p> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for land use and environmental permits for geotechnical operations. Permit application development will begin in 2014 for likely 2015 operations.</p>	7/1/14 - 6/30/15  (ongoing)
5.	2014/2015 Summer Field Season - environmental surveys  [midstream]	SPCO, DNR/SHPO, DNR/DPOR, DNR/MLW, and ADF&G, ADEC	<p><i>Summer field season environmental surveys</i> Permit applications are in the process of being submitted for:</p> <ol style="list-style-type: none"> <li>1. Cultural resource surveys</li> <li>2. Wetland and vegetation surveys</li> <li>3. Fish surveys <ul style="list-style-type: none"> <li>• Characterize fish distribution and habitat for streams and rivers along the pipeline route, including:</li> <li>• Specimen collection using approved methods (e.g., minnow trapping, seining, fyke nets)</li> <li>• Water quality parameters (e.g., temperature, pH, oxidation reduction potential)</li> <li>• Streambed and stream channel morphology</li> </ul> </li> <li>4. Stream and lake hydrology and fish studies. The field season surveys may require the need for a field camp.</li> </ol> <p><u>Agency interaction required:</u> SPCO to coordinate with other state agencies as needed for access and siting permits and scientific study permits. Completion reports and field follow-up may require state agency input.</p>	5/1/14 - 6/30/15  (ongoing)
6.	2014/2015 Summer Field Season - corridor civil surveys  [midstream]	SPCO, ADF&G, DNR/DPOR	<p><i>Civil surveys</i> Civil surveys will be conducted within the potential pipeline right-of-way corridor to recover and confirm establish survey monuments, correct GIS project locations, set controls for route and location identification and to confirm GPS positions.</p> <p>Surveys may require land access permits in certain areas. In many areas survey activities are expected to fall under generally allowed use of state land but some permits may be required.</p> <p><u>Agency interaction required:</u> SPCO to coordinate with state agencies as needed for access.</p>	5/1/14 - 6/30/15  (ongoing)

7.	2014/2015 Field Season helicopter activities  [midstream]	SPCO, ADF&G, DNR/DPOR	<p><i>Environmental surveys:</i> Helicopter access for remote targets off the road network for survey crew drop offs. No current plans for pad clearing. Potentially in 2015, raptor surveys will be conducted along the potential pipeline corridor requiring helicopter use.</p> <p><i>Pipeline Corridor analysis</i> (LiDAR, aerial imagery, helicopter and ground based reconnaissance) of:</p> <ul style="list-style-type: none"> <li>• Special route study areas</li> <li>• Site selection for preferred and alternate compressor station and mainline valve (MLV) sites</li> <li>• Off ROW infrastructure footprint (camp sites, access road, etc.)</li> <li>• Material sources (granular and water/ice pad)</li> </ul> <p><u>Agency interaction required:</u> SPCO to coordinate with other state agencies as needed for access and siting related to drop off points.</p>	5/1/14 - 6/30/15  (ongoing)
8.	Phase I environmental site assessments (Phase II as needed)  [midstream, downstream]	SPCO, DNR/MLW, DNR/DPOR, ADEC	<p>Conduct non-invasive Phase I assessments across 300' corridor along the pipeline ROW and in the Nikiski area as needed</p> <p><u>Agency interaction required:</u> SPCO to coordinate with other state agencies as needed for access and siting permits.</p>	5/1/14 - 6/30/15  (ongoing)
9.	GTP Geotechnical Evaluation  [upstream]	SPCO, DNR/MLW, DNR/DO&G,SH PO, ADEC, ADF&G	<p><i>GTP North Slope area support studies</i></p> <ol style="list-style-type: none"> <li>1. Geotechnical cores of the gravel mine/GTP water reservoir sites <ul style="list-style-type: none"> <li>• Winter boring program at proposed and alternate reservoir locations (seasonal pumping from Put River)</li> </ul> </li> <li>2. Geotechnical cores at the Put 23 mine site <ul style="list-style-type: none"> <li>• Confirm remaining gravel availability</li> </ul> </li> <li>3. Geotechnical cores at GTP Infrastructure sites <ul style="list-style-type: none"> <li>• Potential supplemental boring program for other GTP infrastructure pads, roads, laydown areas</li> </ul> </li> </ol> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for land use and environmental permits for implementation of onshore geotechnical scopes.</p>	5/1/14 - 6/30/15  (ongoing)
10.	GTP Hydrology  [upstream]	SPCO, DNR/MLW, DNR/DO&G,SH PO, ADEC, and ADF&G	<p><i>GTP North Slope Hydrology Studies</i></p> <p>Monitoring field work will focus on hydrology, water supply and assessing impacts to drainages:</p> <ol style="list-style-type: none"> <li>1. Assess freshwater lakes for winter ice pad construction - volume, depth, fish presence, and lake water quality, and assess existing temporary water uses and water rights <ul style="list-style-type: none"> <li>• Determine culvert requirements in GTP activity area – assess natural drainage pathways intersected by gravel pads/roads and ice pads, fish presence and drainage structure requirements</li> </ul> </li> <li>2. GTP water reservoir and intake structure siting <ul style="list-style-type: none"> <li>• Put River water source for pumped storage reservoir (potable and GTP process water)</li> <li>• Summer season Put River water quality analysis</li> <li>• Put River water intake preliminary design</li> </ul> </li> <li>3. Stream monitoring</li> </ol> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for land use and environmental permits for implementation of onshore hydrology studies.</p>	5/1/14 - 6/30/15  (ongoing)

11.	North Slope Marine bathymetry  [upstream]	SPCO, DNR/ML&W, DNR/DO&G, ADF&G	Conduct a high quality bathymetric survey near West Dock to refine the dredge quantity and confirm the schedule and equipment needed to conduct future dredging and disposal activities.  <u>Agency interaction required:</u> SPCO to coordinate with state permitting agencies and DNR divisions for the state agency review process land use permit requirements.	6/1/14 – 6/30/15
12.	Marine test trench  [upstream]	SPCO, DNR/ML&W, DNR/DO&G, ADEC/DOW, ADF&G	Dredge and test trench program at Dockhead 2 at Prudhoe Bay.  <u>Agency interaction required:</u> SPCO to coordinate with state permitting agencies and DNR divisions for the state agency review process land use permit requirements.	1/1/15 – 6/30/15  (ongoing)
13.	PL Corridor Geotechnical program  [midstream]	SPCO, DNR/MLW, DNR/DO&G,SH PO, ADEC, ADF&G ADGGS	<u>Borehole drilling/ sampling:</u> <ul style="list-style-type: none"> <li>• Borehole sampling will be conducted to test soils for characterization in different terrain classifications, to test for frost heaves and develop information for potential river crossings and to enhance overall route data.</li> <li>• Backhoe excavations at potential material sites will be conducted to characterize materials in gravelly terrain units.</li> <li>• Pick and shovel test pits will be along route to confirm soil characteristics and depths to shallow bedrock.</li> <li>• Target trenches will delineate active fault crossing</li> </ul> All sites accessible from highway or public roadway.  <u>Agency interaction required:</u> SPCO to coordinate with other state agencies as needed for access and geotechnical evaluation permits.	6/1/14 - 6/30/15  (ongoing)
14.	Ambient noise surveys  [midstream, downstream]	SPCO, DNR/MLW, DNR/DO&G,SH PO, ADEC, ADOT&PF ADF&G	Potential installation of noise monitors in the Nikiski terminal area and along the pipeline corridor.  <u>Agency interaction required:</u> SPCO to coordinate with other state agencies as needed for access and siting permits.	1/1/15 - 6/30/15  (ongoing)
15.	Air quality monitoring and analysis  [upstream, midstream, downstream]	SPCO, DNR/DO&G, ADEC/AQ	<ul style="list-style-type: none"> <li>• Ambient air quality and meteorological monitoring station siting analysis and permitting for installation</li> <li>• Quality Assurance Program Plan review and coordination</li> </ul> <u>Agency interaction required:</u> SPCO to coordinate with other state agencies as needed for siting permits related to the air quality monitoring station installation along the pipeline corridor, on the North Slope and in the Nikiski area. ADEC/AQ to provide technical assistance in reviewing monitoring station facility locations and QAPP plan development and review.	10/17/13 - 6/30/15  (ongoing)
16.	2014/2015 Subsistence Harvest Surveys	SPCO, ADF&G	ADF&G will identify for subsistence analysis the communities and census designated places whose primary subsistence harvest areas lie within portions of the Alaska LNG Project. Subsistence analysis requires the following steps:  <ul style="list-style-type: none"> <li>• Identify subsistence analysis locations and conduct subsistence harvest surveys in designated locations/communities (ADF&amp;G)</li> <li>• Write Subsistence Analysis Report by conducting literature review of existing data to document the baseline subsistence resource conditions and initial impact assessment (Consultant)</li> <li>• Compile and analyze the wildlife harvest data collected by ADF&amp;G during the subsistence harvest surveys (Consultant)</li> </ul>	10/1/13 - 6/30/15  (ongoing)

			<ul style="list-style-type: none"> <li>Analyze and compare the historical data with the new data to assess any evidence of trends or pattern (Consultant)</li> <li>Update existing maps of subsistence data to include the Alaska LNG Project route and facilities, and prepare new maps for the ADF&amp;G subsistence data from the surveyed communities (Consultant)</li> <li>Prepare the subsistence impacts and mitigation sections for RR5 (Consultant)</li> </ul> <p><u>Agency interaction required:</u> Stephen R. Braund and Associates (SRBA) has been contracted to research and document all existing subsistence baseline data available and provide mapping support to ADF&amp;G. SRBA will also write the existing conditions, impacts, and mitigation sections for RR5.</p>	
17.	2014/2015 Health Impact baseline studies and village field surveys	SPCO, DHSS	<p>DHSS will utilize a contractor (NewFields) to conduct an HIA to identify the potential human health and safety impacts of the proposed Alaska LNG Project, during all project phases, on people living, working and traveling near the proposed facilities and along the pipeline route. The overall goal of a HIA is to minimize negative health effects while maximizing the health benefits of the proposed action.</p> <p>The HIA scope of work consists of the following:</p> <ul style="list-style-type: none"> <li>Comprehensive assessment/baseline data collection</li> <li>Nutritional surveys and other field reviews</li> <li>Review project plans and schedule</li> <li>Impact assessment and development of a health management plan</li> </ul> <p><u>Agency interaction required:</u> DHSS approved contractor NewFields will conduct the health impact assessment. HIA community surveys can be coordinated closely with ADF&amp;G subsistence surveys so as to minimize survey fatigue in communities.</p>	10/1/13 - 6/30/15 (ongoing)
18.	Workshops & Regulatory Planning in support of pipeline ROW lease application	SPCO, DNR agency divisions (i.e. ML&W, SHPO, DGGS, etc.), ADEC, ADF&G, DOLWD, AOGCC, ADOT&PF, DPS/SFMO, DHSS	<p>Anticipated pipeline routing workshops to support a future pipeline ROW lease application.</p> <p><u>Agency interaction required:</u> SPCO to coordinate with DNR divisions and other state agencies for workshop participation and state agency permit planning in support of a future pipeline ROW lease application.</p>	10/1/14 - 6/30/15 (ongoing)
19.	NEPA process	SPCO, DNR agency divisions (i.e. ML&W, SHPO, DGGS, etc.), ADEC, ADF&G, DOLWD, AOGCC, ADOT&PF, DPS/SFMO, DHSS	<p>The Alaska LNG Project plans to continue preparation for the federal NEPA process.</p> <p><u>Agency interaction required:</u> SPCO to coordinate with other state agencies to support the federal NEPA process.</p>	TBD - 6/30/15 (ongoing)



We appreciate the coordination role that the SPCO provides. Should you have any questions or require further information, please feel free to contact me at (832) 624-2816 or Adrienne Rosecrans at (832) 624-2722.

Sincerely,



Charlie Kominas  
Alaska LNG Project  
Environmental, Regulatory and Land Manager  
For and on behalf of ExxonMobil Alaska Production Inc.





**Alaska LNG Project**  
3201 C Street; Suite 506  
Anchorage, Alaska 99501

Ref No.: USAI-PE-SALTR-00-000015-000

May 15, 2015

Mark Morones  
State Pipeline Coordinators Office  
550 W. 7<sup>th</sup> Ave. Suite 1430  
Anchorage, AK 99501

**Re: Alaska LNG Phase II Site-Specific Plans for NRHP Eligibility Evaluations**

Dear Dr. King:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 field work plan detailing proposed methods for determining National Register of Historic Places (NRHP) eligibility at specific, select archaeological sites on BLM lands within the project footprint.

Upon your review of the plan, we would like to arrange a meeting to seek your input and agreement with our proposed methods.

If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000024-000

July 20, 2015

Mark Morones  
Alaska Department of Natural Resources  
State Pipeline Coordinator's Office  
3651 Penland Pkwy  
Anchorage, AK 99508

**Re: Visual/Aesthetics Study Work Plan**

Dear Mr. Morones:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 study plan to conduct surveys that identify visually sensitive resources that may be impacted by the construction and operation of the Alaska LNG project. The goal of this study is to describe existing visual conditions in the Project Planning Area in support of the Federal Energy Research Commission (FERC) application and subsequent Bureau of Land Management (BLM) and State Pipeline Coordinator's Office (SPCO) permits. In addition to identifying visual viewsheds, the study will address those areas of high recreational use that could be sensitive to changes from construction and operation.

We are available to walk through the plan components with the Alaska Department of Natural Resources team at your earliest convenience. If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead  
For and on behalf of ExxonMobil LNG, LLC

Enclosure

cc: Shina Duvall/ADNR (with attachment)  
Judith Bittner/ADNR (without attachment)  
Project Files



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

Department of Natural Resources

Division of Oil & Gas  
State Pipeline Coordinator's Section  
3651 Penland Parkway  
Anchorage, Alaska 99508  
Main: 907.269-6403  
Fax: 907.269-6880

July 11, 2016

Letter No.: 16-252-AS  
Case File Serial No.: LAS 29867  
LAS 30014  
LAS 30283  
Section/Stipulation: N/A  
File Code: (30) 1.3.10  
(81) 2.5

Mr. Philip Brinkman,  
Regulatory Lead  
3201 C Street, Suite 506  
Anchorage, AK 99503

**Re: Signing Authority for ExxonMobil Alaska LNG, LLC  
Alaska LNG Project**

Dear Mr. Brinkman:

The State Pipeline Coordinator's Section (SPCS) is aware of restructuring affecting the Alaska LNG Project and is requesting that documentation for signing authority be submitted to the SPCS for ExxonMobil Alaska LNG, LLC (EMALL). Signing authorities may take a variety of forms but are typically a corporate resolution, a delegation of authority, or a power of attorney. Signing authorities are needed for any individual who will be submitting permit applications, permit amendment requests, the Right-of-Way lease application, other DNR applications, or entering into authorizations on behalf of EMALL. Additionally, please submit an updated list of individuals, with contact information, who are approved to work on EMALL authorizations. If a new organizational chart for the Alaska LNG Project Team has been created that would also be very useful.

The SPCS is furthermore requesting that a new Designated Point of Contact be appointed for the responsibilities outlined under Section II Subsection 8 of the 2014 Memorandum of Agreement (MOA) between EMALL and the SPCS for reimbursable services for the Alaska LNG Project.

Please refer to Enclosures 1 and 2, for the most recent contacts on file for Alaska LNG Project.

Thank you for your attention to these details and if you have any questions please contact Jennifer Murrell at (907) 269-6479.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jason Walsh".  
for Jason Walsh  
State Pipeline Coordinator

*Mr. Philip Brinkman*  
*Signing Authority for ExxonMobil Alaska LNG, LLC*  
*Alaska LNG Project*

2

*July 11, 2016*

Enclosures:    1) Letter dated Feb 8, 2016 RE: Signing Authority for ExxonMobil Alaska LNG, LLC, Alaska LNG Project -USAI-PE-SALTR-00-000046-000 (8 pages)  
                     2) 2014 AKLNG MOA-Reimbursable Services (8 pages)

cc:            (electronic only)  
                Steve Butts, ExxonMobil  
                Jennifer Dupont, ExxonMobil  
                Jennifer Murrell, DNR/SPCS



**Alaska LNG Project**  
10613 West Sam Houston Parkway N  
Building B, Suite 500  
Houston, Texas 77064

Ref No.: USAI-PE-SALTR-00-000046-000

February 8, 2016

Jason Walsh  
Alaska Department of Natural Resources  
Division of Oil and Gas  
State Pipeline Coordinator's Section  
3651 Penland Parkway  
Anchorage, AK 99508

**Re: Signing Authority for ExxonMobil Alaska LNG LLC, Alaska LNG Project**

Dear Mr. Walsh:

In response to your request by letter No. 15-495-AS, please find enclosed a list of individuals who are approved to request authorizations from the State of Alaska on behalf of ExxonMobil Alaska LNG LLC (EMALL). Additional officers of EMALL are not included in the list because they do not typically sign requests for authorization from the State of Alaska. Also enclosed is documentation of the authority to sign on behalf of EMALL for the individuals provided.

If you have any questions, please contact Julie McKim at (907) 792-9358 or by email at [julie.mckim@exxonmobil.com](mailto:julie.mckim@exxonmobil.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Charlie Kominas".

Charlie Kominas  
Alaska LNG Safety, Security, Health, and Environment Manager  
ExxonMobil Development Company  
For and on behalf of ExxonMobil Alaska LNG LLC

Enclosures:

List of Individuals Approved to Request Authorizations  
Documentation of Authority

cc: Shannon Miller, ADNRS-SPCS  
Jennifer Murrell, ADNRS-SPCS  
Ruben Medrano, Alaska LNG



**Individuals Approved to Request Authorizations from the State of Alaska**

Full name and official title Charlie Kominas, Attorney-in-Fact  
 Specific role Safety, Security, Health, and Environment Manager  
 Email address charlie.kominas@exxonmobil.com  
 Mailing address 10613 West Sam Houston Parkway N, Building B, Suite 500, Houston, Texas 77064  
 Physical location Same as mailing  
 Telephone number (work) 832.624.2816  
 Telephone number (cell) 985.259.0036  
 General fax number 832.625.9548

Full name and official title Ruben Medrano, Attorney-in-Fact  
 Specific role Regulatory Lead  
 Email address ruben.medrano@exxonmobil.com  
 Mailing address 3201 C Street, Suite 506, Anchorage, Alaska 99503  
 Physical location Same as mailing  
 Telephone number (work) 907.929.4133  
 Telephone number (cell) 832.316.0893  
 General fax number 907.868.1158

Full name and official title Jeffrey D. McDonald, Attorney-in-Fact  
 Specific role Land and Right of Way Manager  
 Email address jeffrey.d.mcdonald@exxonmobil.com  
 Mailing address 10613 West Sam Houston Parkway N, Building B, Suite 500, Houston, Texas 77064  
 Physical location Same as mailing  
 Telephone number (work) 832.624.2950  
 Telephone number (cell) 281.841.0995  
 General fax number 832.625.9548

Full name and official title Matthew E. Horneman, Attorney-in-Fact  
 Specific role Deputy Land and Right of Way Lead  
 Email address matthew.e.horneman@exxonmobil.com  
 Mailing address 3201 C Street, Suite 506, Anchorage, Alaska 99503  
 Physical location Same as mailing  
 Telephone number (work) 907.929.4132  
 Telephone number (cell) 907.268.8182  
 General fax number 907.868.1158

Full name and official title Juan Raul Lopez, Attorney-in-Fact  
 Specific role GTP Project Manager  
 Email address juan.raul.lopez@exxonmobil.com  
 Mailing address 10613 West Sam Houston Parkway N, Building B, Suite 500, Houston, Texas 77064  
 Physical location Same as mailing  
 Telephone number (work) 832.624.2996  
 Telephone number (cell) 832.455.7686  
 General fax number 832.625.9548

## Documentation of Authority



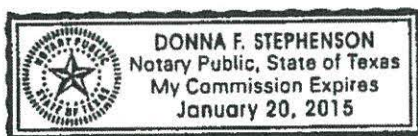
# LIMITED POWER OF ATTORNEY

**EXXONMOBIL ALASKA LNG LLC**, a company duly organized and existing under the laws of the state of Delaware (the "Corporation"), for its own behalf and as agent hereby designates, constitutes and appoints **Charlie Kominas** as its true and lawful attorney-in-fact, empowering and conferring upon said person, the authority to do and perform any and all acts in the name and on behalf of the Corporation that may be necessary or appropriate to carry out the purposes of the Alaska LNG Project, including but not limited to, the authority to execute and deliver in the name and on behalf of the Corporation any and all agreements, documents and instruments related thereto as may be deemed necessary or desirable and in the best interest of the Corporation to consummate the purposes mentioned above.

This Limited Power of Attorney is limited to (a) lands, or interests in lands, owned, held, or claimed by the State of Alaska, or over which the State of Alaska exercises jurisdiction; (b) lands, or interests in lands, owned, held, or claimed by the United States or over which the United States exercises jurisdiction and which are located within the boundaries of the State of Alaska or on Outer Continental Shelf lands contiguous to the State of Alaska; (c) lands, or interests in lands, whose ownership or title is disputed by the United States and the State of Alaska; or (d) lands or interests in lands whose ownership or title is Private, Tribal or Agency held which are located within the boundaries of the State of Alaska. This Limited Power of Attorney does not extend to any Oil & Gas Leasehold interest owned by the Corporation.

This Limited Power of Attorney shall be effective as of the date hereof and shall remain in full force and effect until April 1, 2016, or until duly revoked, in whole or in part, by the Grantor or the Board of Directors of the Corporation; whichever is the earlier, provided, however, that all acts lawfully done or performed pursuant to this Limited Power of Attorney by the said **Charlie Kominas** prior to such revocation shall be, and the same hereby are, ratified and confirmed.

IN WITNESS WHEREOF, **EXXONMOBIL ALASKA LNG LLC**, has caused this Limited Power of Attorney to be signed by a duly authorized officer of the Corporation in the City of Houston, State of Texas, on this 16<sup>th</sup> day of July, 2014.



**EXXONMOBIL ALASKA LNG LLC.**

By: *Lydia J. Johnson*  
Lydia J. Johnson, Vice President

STATE OF TEXAS                     )  
COUNTY OF HARRIS             )  
U. S. A.                                 )

Sworn to and subscribed before me in the City of Houston, County of Harris, State of Texas, U. S. A. on this 16<sup>th</sup> day of July, 2014.

*Donna F. Stephenson*  
Notary Public

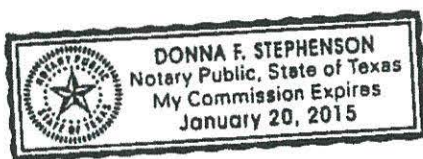
# LIMITED POWER OF ATTORNEY

**EXXONMOBIL ALASKA LNG LLC**, a company duly organized and existing under the laws of the state of Delaware (the "Corporation"), for its own behalf and as agent hereby designates, constitutes and appoints **Ruben Medrano** as its true and lawful attorney-in-fact, empowering and conferring upon said person, the authority to do and perform any and all acts in the name and on behalf of the Corporation that may be necessary or appropriate to carry out the purposes of the Alaska LNG Project, including but not limited to, the authority to execute and deliver in the name and on behalf of the Corporation any and all agreements, documents and instruments related thereto as may be deemed necessary or desirable and in the best interest of the Corporation to consummate the purposes mentioned above.

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This Limited Power of Attorney shall be effective as of the date hereof and shall remain in full force and effect until April 1, 2016, or until duly revoked, in whole or in part, by the Grantor or the Board of Directors of the Corporation; whichever is the earlier, provided, however, that all acts lawfully done or performed pursuant to this Limited Power of Attorney by the said **Ruben Medrano** prior to such revocation shall be, and the same hereby are, ratified and confirmed.

IN WITNESS WHEREOF, **EXXONMOBIL ALASKA LNG LLC**, has caused this Limited Power of Attorney to be signed by a duly authorized officer of the Corporation in the City of Houston, State of Texas, on this 16<sup>th</sup> day of July, 2014.



**EXXONMOBIL ALASKA LNG LLC.**

By: *Lydia J. Johnson*  
Lydia J. Johnson, Vice President

STATE OF TEXAS                   )  
COUNTY OF HARRIS           )  
U. S. A.                               )

Sworn to and subscribed before me in the City of Houston, County of Harris, State of Texas, U. S. A. on this 16<sup>th</sup> day of July, 2014.

*Donna F. Stephenson*  
Notary Public



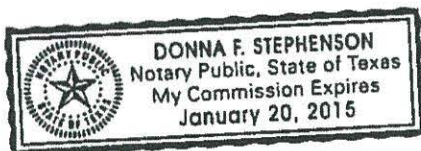
# LIMITED POWER OF ATTORNEY

**EXXONMOBIL ALASKA LNG LLC**, a company duly organized and existing under the laws of the state of Delaware (the "Corporation"), for its own behalf and as agent hereby designates, constitutes and appoints **Jeffrey D. McDonald** as its true and lawful attorney-in-fact, empowering and conferring upon said person, the authority to do and perform any and all acts in the name and on behalf of the Corporation that may be necessary or appropriate to carry out the purposes of the Alaska LNG Project, including but not limited to, the authority to execute and deliver in the name and on behalf of the Corporation any and all agreements, documents and instruments related thereto as may be deemed necessary or desirable and in the best interest of the Corporation to consummate the purposes mentioned above.

This Limited Power of Attorney is limited to (a) lands, or interests in lands, owned, held, or claimed by the State of Alaska, or over which the State of Alaska exercises jurisdiction; (b) lands, or interests in lands, owned, held, or claimed by the United States or over which the United States exercises jurisdiction and which are located within the boundaries of the State of Alaska or on Outer Continental Shelf lands contiguous to the State of Alaska; (c) lands, or interests in lands, whose ownership or title is disputed by the United States and the State of Alaska; or (d) lands or interests in lands whose ownership or title is Private, Tribal or Agency held which are located within the boundaries of the State of Alaska. This Limited Power of Attorney does not extend to any Oil & Gas Leasehold interest owned by the Corporation.

This Limited Power of Attorney shall be effective as of the date hereof and shall remain in full force and effect until April 1, 2016, or until duly revoked, in whole or in part, by the Grantor or the Board of Directors of the Corporation; whichever is the earlier, provided, however, that all acts lawfully done or performed pursuant to this Limited Power of Attorney by the said **Jeffrey D. McDonald** prior to such revocation shall be, and the same hereby are, ratified and confirmed.

IN WITNESS WHEREOF, **EXXONMOBIL ALASKA LNG LLC**, has caused this Limited Power of Attorney to be signed by a duly authorized officer of the Corporation in the City of Houston, State of Texas, on this 16<sup>th</sup> day of July, 2014.



**EXXONMOBIL ALASKA LNG LLC.**

By: *Lydia J. Johnson*  
Lydia J. Johnson, Vice President

STATE OF TEXAS                     )  
COUNTY OF HARRIS             )  
U. S. A.                                 )

Sworn to and subscribed before me in the City of Houston, County of Harris, State of Texas, U. S. A. on this 16<sup>th</sup> day of July, 2014.

*Donna F. Stephenson*  
Notary Public

**LIMITED POWER OF ATTORNEY**

**EXXONMOBIL ALASKA LNG LLC**, a company duly organized and existing under the laws of the state of Delaware (the "Corporation"), for its own behalf and as agent hereby designates, constitutes and appoints **Matthew E. Horneman** as its true and lawful attorney-in-fact, empowering and conferring upon said person, the authority to do and perform any and all acts in the name and on behalf of the Corporation that may be necessary or appropriate to carry out the purposes of the Alaska LNG Project, including but not limited to, the authority to execute and deliver in the name and on behalf of the Corporation any and all agreements, documents and instruments related thereto as may be deemed necessary or desirable and in the best interest of the Corporation to consummate the purposes mentioned above.

This Limited Power of Attorney is limited to (a) lands, or interests in lands, owned, held, or claimed by the State of Alaska, or over which the State of Alaska exercises jurisdiction; (b) lands, or interests in lands, owned, held, or claimed by the United States or over which the United States exercises jurisdiction and which are located within the boundaries of the State of Alaska or on Outer Continental Shelf lands contiguous to the State of Alaska; (c) lands, or interests in lands, whose ownership or title is disputed by the United States and the State of Alaska; or (d) lands or interests in lands whose ownership or title is Private, Tribal or Agency held which are located within the boundaries of the State of Alaska. This Limited Power of Attorney does not extend to any Oil & Gas Leasehold interest owned by the Corporation.

This Limited Power of Attorney shall be effective as of the date hereof and shall remain in full force and effect until April 1, 2016, or until duly revoked, in whole or in part, by the Grantor or the Board of Directors of the Corporation; whichever is the earlier, provided, however, that all acts lawfully done or performed pursuant to this Limited Power of Attorney by the said **Matthew E. Horneman** prior to such revocation shall be, and the same hereby are, ratified and confirmed.

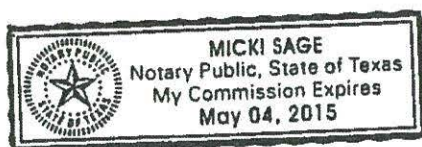
IN WITNESS WHEREOF, **EXXONMOBIL ALASKA LNG LLC** has caused this Limited Power of Attorney to be signed by a duly authorized officer of the Corporation in the City of Houston, State of Texas, on this 8th day of August, 2014.

**EXXONMOBIL ALASKA LNG LLC**

By:   
S. D. Butt, Vice President

STATE OF TEXAS                     )  
COUNTY OF HARRIS            )  
U. S. A.                                )

Sworn to and subscribed before me in the City of Houston, County of Harris, State of Texas, U. S. A. on this 8th day of August, 2014.



  
Notary Public



# **LIMITED POWER OF ATTORNEY**

**EXXONMOBIL ALASKA LNG LLC**, a company duly organized and existing under the laws of the state of Delaware (the "Corporation"), for its own behalf and as agent hereby designates, constitutes and appoints **Juan Raul Lopez** as its true and lawful attorney-in-fact, empowering and conferring upon said person, the authority to do and perform any and all acts in the name and on behalf of the Corporation that may be necessary or appropriate to carry out the purposes of the Alaska LNG Project, including but not limited to, the authority to execute and deliver in the name and on behalf of the Corporation any and all agreements, documents and instruments related thereto as may be deemed necessary or desirable and in the best interest of the Corporation to consummate the purposes mentioned above.

This Limited Power of Attorney is limited to (a) lands, or interests in lands, owned, held, or claimed by the State of Alaska, or over which the State of Alaska exercises jurisdiction; (b) lands, or interests in lands, owned, held, or claimed by the United States or over which the United States exercises jurisdiction and which are located within the boundaries of the State of Alaska or on Outer Continental Shelf lands contiguous to the State of Alaska; (c) lands, or interests in lands, whose ownership or title is disputed by the United States and the State of Alaska; or (d) lands or interests in lands whose ownership or title is Private, Tribal or Agency held which are located within the boundaries of the State of Alaska. This Limited Power of Attorney does not extend to any Oil & Gas Leasehold interest owned by the Corporation.

This Limited Power of Attorney shall be effective as of the date hereof and shall remain in full force and effect until April 1, 2016, or until duly revoked, in whole or in part, by the Grantor or the Board of Directors of the Corporation; whichever is the earlier, provided, however, that all acts lawfully done or performed pursuant to this Limited Power of Attorney by the said **Juan Raul Lopez** prior to such revocation shall be, and the same hereby are, ratified and confirmed.

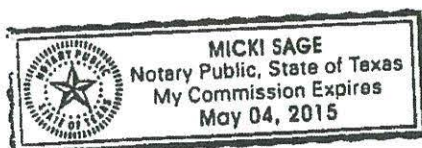
IN WITNESS WHEREOF, **EXXONMOBIL ALASKA LNG LLC** has caused this Limited Power of Attorney to be signed by a duly authorized officer of the Corporation in the City of Houston, State of Texas, on this 8th day of August, 2014.


**EXXONMOBIL ALASKA LNG LLC**

By:   
S. D. Butt, Vice President

STATE OF TEXAS                   )  
COUNTY OF HARRIS           )  
U. S. A.                               )

Sworn to and subscribed before me in the City of Houston, County of Harris, State of Texas, U. S. A. on this 8th day of August, 2014.



  
Notary Public



THE STATE  
of **ALASKA**  
GOVERNOR SEAN PARNELL

## Department of Natural Resources

State Pipeline Coordinator's Office

411 West 4<sup>th</sup> Avenue, Suite 2  
Anchorage, Alaska 99501  
Main: 907.269.6403  
Fax: 907.269.6880

November 19, 2014

Letter No.: 14-466-AS

Case File Serial No.: N/A

Section/Stipulation: N/A

File Code: (50) 1.40

ExxonMobil Development Company  
Attention: Mr. Charlie Kominas  
Environmental, Regulatory and Land Manager  
10613 W Sam Houston Pkwy., N.  
Houston, TX 77064

**Re: Memorandum of Understanding/Reimbursement Agreement  
Executed Alaska LNG Agreement**

Greetings Mr. Kominas,

Enclosed is the signed original of the FY2015 agreement for your records. The State Pipeline Coordinator's Office (SPCO) also has a signed original in its files.

Please contact me at (907) 269-6435 if you have questions. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Keri Hubbard".

Keri Hubbard  
Administrative Officer II

Enclosure: Annual Budget Summary

cc: (paper copy)  
Adrienne Rosecrans, ExxonMobil Development Company

cc: (electronic only)  
Shannon Miller, SPCO  
George Montero, DNR Finance  
Admin Records, SPCO

**MEMORANDUM OF AGREEMENT  
BETWEEN  
THE ALASKA DEPARTMENT OF NATURAL RESOURCES  
AND EXXONMOBIL ALASKA LNG, LLC FOR  
ACTIVITIES RELATED TO PREPARING FOR AND ADJUDICATION OF AN  
ALASKA NATURAL GAS PIPELINE RIGHT-OF-WAY LEASE UNDER ALASKA  
STATUTE 38.35 AND ACTIVITIES ASSOCIATED WITH OTHER STATE  
AUTHORIZATIONS COORDINATED THROUGH THE STATE PIPELINE  
COORDINATOR'S OFFICE, DEPARTMENT OF NATURAL RESOURCES**

This Memorandum of Agreement ("Agreement") is entered into between the Department of Natural Resources ("DNR") and ExxonMobil Alaska LNG, LLC ("Prospective Lessee") under the authority of the Right-of-Way Leasing Act, Alaska Statute 38.35 ("AS 38.35"). The purpose of this Reimbursement Agreement ("Agreement") is to establish procedures for the Prospective Lessee to reimburse the State of Alaska for reasonable costs incurred by the State related to the Prospective Lessee's application to be filed under AS 38.35 and associated State authorizations.

**RECITALS**

1. The Prospective Lessee is engaged in activities related to obtaining a state Pipeline Right-of Way ("ROW") Lease and other associated state permits and authorizations that would be required to transport natural gas by means of a pipeline from the North Slope of Alaska to market ("Project");
2. A state pipeline ROW Lease is an important element of this proposed Project and the Prospective Lessee and the DNR recognize the value in addressing matters associated with adjudicating a ROW Lease expeditiously to facilitate progress on this Project;
3. The Prospective Lessee and the DNR are prepared to initiate Pre-Application work in support of submission of an application for a ROW Lease on state land under AS 38.35;
4. The Prospective Lessee is also prepared to initiate pre-application work with other state agencies (coordinated through the SPCO) with respect to permits and other authorizations related to this Project;
5. It is to the benefit of the Prospective Lessee that the DNR have a multi-agency office prepared to receive and process applications for a ROW Lease, permits and other authorizations related to this Project;
6. The DNR State Pipeline Coordinator's Office ("SPCO") is the specific DNR agency assigned the responsibility to coordinate the processing of state approvals for this Project;
7. It is to the mutual benefit of the SPCO and the Prospective Lessee that state technical and resource employees work closely with the Prospective Lessee to facilitate activities related to Pre-Application and ROW Lease Application adjudication as well as processing of other necessary authorizations;
8. It is to the mutual benefit of the SPCO and the Prospective Lessee that the SPCO conduct a coordinated project process among the state agencies and between the state, federal, and local agencies;

9. AS 38.35.140 and AS 38.35. 145 specifically provide that a Prospective Lessee, Lease Applicant, or Lessee is to reimburse the DNR for reasonable costs based on an annual estimate of the projected costs (estimated budget) and Work Plans for this Project; and
10. As required by AS 38.35, the Prospective Lessee is prepared to reimburse reasonable costs incurred by state agencies for work related to this Project as provided in this agreement. The Parties acknowledge that any capital expenses that may be incurred by the Prospective Lessee as a result of a Highway Use Agreement portion of a ROW Lease are not covered under this Agreement. The Parties further acknowledge that costs and/or expense incurred by the SPCO with respect to the coordination of state approvals under a Highway Use Agreement are not covered under this agreement.

Therefore, the Prospective Lessee and SPCO on behalf of the DNR (collectively the "Parties" or individually a "Party"), enter into this Agreement as follows:

## **I. AGREEMENTS**

1. Applicability: This Agreement covers the Prospective Lessee's reimbursement of SPCO costs from the date of final signature, (the "Effective Date") though the final decision and issuance or denial of a ROW Lease under AS 38.35, unless terminated as provided under Section II.
2. Annual Project Work Plan, and SPCO Estimated Budget [Exhibit B]: The Prospective Lessee and the SPCO will meet and review the Prospective Lessee's Annual Project Work Plan ("Work Plan"), broken out by quarter, no later than March 30<sup>th</sup> and discuss the SPCO anticipated General Scope of Work for each ensuing year. Based on the Work Plan, the SPCO shall develop an estimate of anticipated expenses ("Budget Estimate") for the ensuing state fiscal year. By June 15<sup>th</sup> of each year and prior to each quarter of the ensuing fiscal year (July 1 – June 30), the SPCO and Prospective Lessee shall review the Budget Estimate for next quarter to determine whether adjustments to the Work Plan or Budget Estimate are needed, based on progress made and other circumstances. As needed, Exhibit B will be revised and attached to this agreement.
3. Invoices: The SPCO shall invoice the Prospective Lessee on a monthly basis or as otherwise agreed for all costs incurred in accordance with this Agreement. SPCO invoices shall contain detail in a format that allows the Prospective Lessee to determine whether the costs incurred are "qualified expenditures" as defined in AS 43.90 and 15 AAC 90. The Prospective Lessee shall pay undisputed amounts within thirty (30) calendar days of receipt of invoices in accord with Section II of this Agreement. Disputed billings must be elevated to the Commissioner of DNR within thirty (30) days of their original due date, and resolved consistent with Section II of this Agreement. If resolved in favor of the State of Alaska, said bills must be paid within thirty (30) days of the resolution.
4. Costs: The Prospective Lessee shall reimburse the SPCO for reasonable costs incurred by other state agencies working with the SPCO. Reimbursement of personnel costs shall be estimated on an annual basis in Exhibit B including a line item of the estimated administrative indirect costs.
5. Availability of Public Information: Considerable pre-application and permitting work already has been performed by SPCO, applicants and lessees for previous state pipeline projects. Data from these and other work projects that is public information and available at the SPCO may be used



by the Prospective Lessee. The Prospective Lessee and the SPCO will address the need for, and use of, available public data. The Prospective Lessee and the SPCO, through the quarterly review process, will jointly agree on the reimbursement of SPCO expenditures for state resources necessary in compiling requested data.

6. Pre application and Application: The Prospective Lessee will submit to the SPCO Pre-Application ROW lease information for this Project. This pre-application information is intended to assist the Prospective Lessee with completion and submission of an AS 38.35 ROW Lease Application by identifying needed information and data requirements for a complete application. Although additional information may be required after submission of an application, submission of the ROW Lease Application will initiate the formal ROW Lease Application adjudication and review process.

## **II MISCELLANEOUS PROVISIONS**

1. Agreement Form and Assignment Rights: This Agreement is a reimbursement agreement. All previous understandings, agreements, or promises regarding reimbursement for SPCO activities under AS 38.35 directly associated with this Project are merged in this Agreement. The Prospective Lessee may assign the rights, privileges and obligations under this Agreement to a qualified entity or qualified entities that will have responsibility for the ROW Lease, subject to the approval of DNR.
2. Termination and Amendments: Either Party may terminate this Agreement upon ninety (90) calendar day's prior written notice to the other Party. This Agreement may only be amended in writing, and signed by each Party.
3. Notices: Any notice or communication required or allowed under this Agreement to any Party shall be given in writing and shall be deemed sufficiently given when sent by facsimile transmission (with retention of the printed automatic successful transmission report) or by certified mail (with return receipt requested and received) or personally delivered by a third party delivery service with a written reliable record of delivery retained, to the following addresses:

ExxonMobil Alaska LNG, LLC  
3201 C Street, Suite 505  
Anchorage, AK 99503-3968

State Pipeline Coordinator's Office  
411 W.4th Ave, Suite 2C  
Anchorage, AK. 99501-2343

Informal copies may be sent by electronic means such as email.

4. Payments: All payments herein specified are expressed in and shall be paid in United States of America currency by cable, wire, electronic transfer or check, without deduction of exchange, collection or other charges. The Prospective Lessee will need to contact Steve Schmitz with DNR Financial Services (907) 465-3787 to arrange electronic transfers.
5. Enforcement: If a Party fails to enforce a provision of this Agreement that Party has not waived its right to enforce such provision in the future.
6. Applicable Law: The laws of the State of Alaska shall govern this Agreement.

7. Audit Process: The Prospective Lessee is entitled to conduct, at its own expense, reasonable audits by auditors or accountants, of the books, records, and documents of the SPCO. The audits must be related to items on an invoice submitted under Section 14 of this Agreement, and must be at a place where such books, records, and documents are usually maintained and at reasonable times. The Prospective Lessee shall give written notice of an audit to the SPCO at least thirty (30) calendar days before the audit and not later than one (1) year after the close of the state fiscal year for which the books, records, and documents are sought to be audited. The Prospective Lessee may conduct an audit under this section only once per fiscal year, unless the Parties agree in writing to a different time frame because of special circumstances. The Prospective Lessee shall complete an audit under this section within sixty (60) calendar days after initiation. Within ninety (90) calendar days after completion of the audit, the Prospective Lessee shall notify the SPCO of the results of the audit and shall provide the SPCO a copy of the audit report if the Prospective Lessee requests adjustment or reimbursement of any invoice. The Commissioner of the Department of Natural Resources after consulting with the Prospective Lessee shall make the final determination if a cost/expense is appropriate and reasonable. Notwithstanding the foregoing, however, the SPCO will grant the Prospective Lessee access to its books, records and documents as may be necessary to allow the Prospective Lessee to comply with an audit request made pursuant to AS 43 .90.220(b).
8. Designated Points of Contact: The designated points of contact for the SPCO and the Prospective Lessee shall attempt to timely resolve any disagreements regarding matters covered by this Agreement. The designated point of contact for the SPCO is Shannon Miller, Project Manager. The designated point of contact for the Prospective Lessee is Charlie Kominas, Attorney-in-Fact.
9. Dispute Resolution: Any disputes that arise under the Agreement will first be addressed and attempted to be resolved by the designated points of contact. Any disputes that remain after this process has occurred will be elevated for resolution between senior representatives of the Prospective Lessee and the State Pipeline Coordinator (SPC) of the SPCO. Any dispute that can not be resolved by the Prospective Lessee and SPC will be considered by the Commissioner of DNR who will consult with the Prospective Lessee prior to making a final decision.
10. Term and Amendment: Subject to the Annual Project Work Plan and budget provisions of Section II, the term of the Agreement shall expire 120 days after the date the DNR issues a final decision on a ROW Lease Application as provided in Section I of the Agreement. If the decision is to issue a ROW Lease, following issuance of the ROW Lease and before the 120 day period expires, the SPCO and the Prospective Lessee may amend this Agreement to extend it or enter into a new agreement that addresses reimbursement of SPCO expenses for Project construction and operational oversight.
11. Execution: This Agreement may be executed in counterparts, all of which will be considered one and the same document, and will become effective when all counterparts have been signed by the authorized representatives of the below parties on the Effective Date.

The signatories to this Agreement warrant that they have the authority to enter into this Agreement.


This Agreement is effective as of the date of final signature, "Effective Date".

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

Signature page  
To  
Memorandum of Agreement  
Between  
The Alaska Department of Natural Resources  
and ExxonMobil Alaska LNG, LLC

**IN WITNESS WHEREOF**, the parties have executed this Agreement through their duly authorized representatives as of the date of final signature below.

STATE OF ALASKA

  
\_\_\_\_\_  
State Pipeline Coordinator

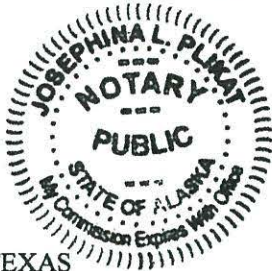
Dated: 11/4/14

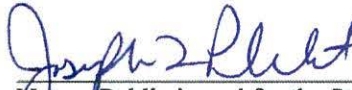
STATE OF ALASKA}

}ss

Third Judicial District}

This is to certify that on November 4, 2014, before me appeared Ray Jakubczak, known by me to be the State Pipeline Coordinator of the State of Alaska, Department of Natural Resources, who executed this document voluntarily on behalf of the State of Alaska.



  
\_\_\_\_\_  
Notary Public in and for the State of Alaska  
My commission expires: with office

STATE OF TEXAS

  
\_\_\_\_\_  
Authorized Representative

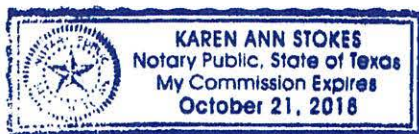
Dated: 10/28/14

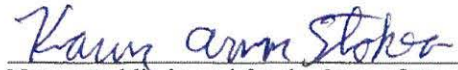
STATE OF TEXAS}

}ss

Harris County}

This is to certify that on OCT 28 2014, 2014 before me appeared Charles Kominas, known by me to be the Attorney-in-Fact of ExxonMobil Alaska LNG, LLC and who executed this document voluntarily on behalf of ExxonMobil Alaska LNG, LLC.



  
\_\_\_\_\_  
Notary Public in and for the State of Texas  
My commission expires: OCT 21, 2018

Signature page  
To  
Memorandum of Agreement  
Between  
The Alaska Department of Natural Resources  
and ExxonMobil Alaska LNG, LLC

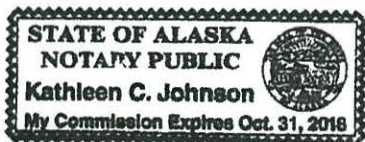
STATE OF ALASKA

Marlys Hagen  
DNR Contracting Officer

Dated: 11/18/14

STATE OF ALASKA }  
                                  } ss  
Third Judicial District }

This is to certify that on 18th November, 2014, before me appeared Marlys Hagen, C.P.M., CPPB, CPPO known by me to be the DNR Contracting Officer of the State of Alaska, Department of Natural Resources, who executed this document voluntarily on behalf of the State of Alaska.



Kathleen C. Johnson  
Notary Public in and for the State of Alaska  
My commission expires: Oct. 31, 2018



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-90-000001-000

July 18, 2016

Jennifer Murrell  
Natural Resource Specialist IV, State Pipeline Coordinator Section  
3651 Penland Parkway  
Anchorage, AK 99508

**Re: Letter to ADNR-SPCS - Review of Nikiski Capital Dredge Material Characterization SAP**

Dear Ms. Murrell:

ExxonMobil Alaska LNG LLC (EMALL) on behalf of the Alaska LNG Project (Project) is requesting your review of the revised Sampling and Analysis Plan (SAP) for the Alaska LNG Project sediment sampling program at Nikiski to support future evaluation and permitting of potential capital (construction) dredging in Cook Inlet.

We would greatly appreciate feedback on the SAP by July 29<sup>th</sup> if possible so that we can incorporate any modifications and plan potential future work programs.

We appreciate and thank you for your cooperation. If you have any questions about the enclosed plan, please contact Jeff Raun at 907-929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink that reads "PE Brinkmann".

Philip Brinkmann  
Alaska LNG Project  
Licensing Manager  
For and on behalf of ExxonMobil Alaska LNG LLC (EMALL)

Enclosure:  
Capital Dredge Material Characterization Sampling Analysis Plan (Doc No. USAL-CH-JPZZZ-90-000008-000)

cc:  
Sandy Gibson – USACE  
Mary Romero – USACE  
Chris Meade – EPA  
James Rypkema - ADEC

Stakeholder



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SGEIS-00-0004

September 26, 2014

«To Whom»  
«Company/Agency»  
«AddressBlock»  
«City, State Zip»

**Re: Alaska LNG Project**

Dear «To Whom»:

The Alaska Gasline Development Corporation (AGDC) and affiliates of BP, ConocoPhillips, ExxonMobil, and TransCanada (together, Alaska LNG Project Participants) have commenced the Federal Energy Regulatory Commission's (FERC) pre-filing process for authorization to construct and operate the Alaska LNG Project. As part of this process, you are receiving information about the Alaska LNG Project because you either own land within or near proposed or alternative locations of new facilities, or have otherwise expressed interest in receiving information about this project. The purpose of this letter is to provide you with information on the Alaska LNG Project, the FERC pre-filing process, procedures for participating in that process, and contact information should you have additional questions.

#### **Alaska LNG Project Overview**

The Alaska LNG Project Participants are proposing to construct one integrated liquefied natural gas (LNG) project with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular the Point Thomson Unit and Prudhoe Bay Unit production fields on the Alaska North Slope for export in foreign commerce. The proposed project includes the construction of a liquefaction facility in south central Alaska, an approximately 800-mile mainline gas pipeline, a gas treatment plant on the North Slope, and gas transmission lines connecting the gas treatment plant to the Point Thomson Unit and Prudhoe Bay Unit fields. The mainline gas pipeline will include at least five off-take points to allow for the opportunity for future in-state deliveries of natural gas.

Enclosed with this letter are a general project map and a project overview diagram reflecting the proposed facilities and their planned locations. Additional information on the project can be found at [www.ak-lng.com](http://www.ak-lng.com).



FERC authorizations are required to construct and operate these facilities. The Alaska LNG Project Participants are targeting to file a formal application for the Alaska LNG Project with the FERC in September 2016. FERC authorizations for the project and commencement of construction are anticipated in the 2018 – 2019 timeframe. Pursuant to this schedule, facilities would begin operating in the 2024 – 2025 timeframe.

### **FERC Pre-filing Process**

The FERC requires a collaborative pre-filing process to identify and resolve significant issues prior to applicants filing a formal application with the agency. A significant portion of the environmental review of the Alaska LNG Project will be completed as part of this pre-filing process. The FERC has accepted the request to initiate the pre-filing review process for the Alaska LNG Project under Docket No. PF14-21-000. Links to the Alaska LNG Project's current and future pre-filing materials can be found on FERC's website at [http://elibrary.ferc.gov/idmws/docket\\_search.asp](http://elibrary.ferc.gov/idmws/docket_search.asp) (search "PF14-21" in the Docket Search field).

### **Find Out More**

The Alaska LNG Project Participants will hold public meetings regarding the Alaska LNG Project during October and November 2014 at a number of different locations in the vicinity of the proposed project facilities. Details about the community meetings will be provided through publication in local newspapers, the project website at [www.ak-lng.com](http://www.ak-lng.com), and other communication channels where necessary.

The FERC's website provides information about the agency's pre-filing procedures, citizen involvement, and basic landowner questions and answers, and can be accessed at <http://www.ferc.gov/for-citizens/citizen-guides.asp>. The FERC Office of External Affairs can be contacted at 866-208-3372 or 202-502-8004 to answer any additional questions about the procedures involved.

Thank you for taking the time to review this information and we look forward to communicating with you soon. For immediate questions, please contact Michael Nelson at 855-550-5445 or via email at [info@ak-lng.com](mailto:info@ak-lng.com).

Sincerely,



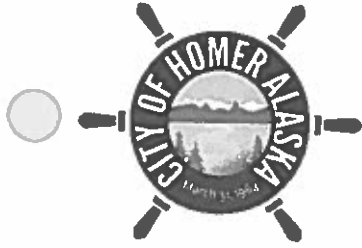
Charlie Kominas

On Behalf of Alaska LNG Project Participants

### **Enclosures**

Attachment A - General Project Map

Attachment B - Project Overview Diagram



## City of Homer

[www.cityofhomer-ak.gov](http://www.cityofhomer-ak.gov)

## Office of the City Manager

491 East Pioneer Avenue

Homer, Alaska 99603

[citymanager@cityofhomer-ak.gov](mailto:citymanager@cityofhomer-ak.gov)

(p) 907-235-8121 x2222

(f) 907-235-3148

October 2, 2015

Josselyn O'Connor

130 Trading Bay Rd, Suite 320

Kenai, AK 99611

**RE: Homer Spit Marine Support Capabilities  
Business Begins ... Where Land Ends  
LNG Project Support Opportunities**

Ms. O'Connor:

The City of Homer is very interested in partnering with the LNG project participants in creating a successful project on the Kenai Peninsula.

Whether it is short-term construction material mobilization or as a base for long-term operational/logistical support, the Homer City Council and I believe that the ice-free Port of Homer and the infrastructure that currently exists can play an important role in making this project profitable and contribute significantly to safe and effective project operations.

The City is currently in the planning stages of two major infrastructure projects that could benefit the LNG project (as we understand it to be). We believe that the expansion of our Deep Water Dock (to improve cargo handling/material off-loading capabilities) and the expansion of our Small Boat Harbor (which could provide berthing for tugs, spill response, and other support vessels) should be evaluated as potential solutions to LNG project needs. The City may be able facilitate local, state and federal funds needed to construct needed project support infrastructure.

Attached is a brochure that highlights the marine services that can currently be provided by the Homer Harbor, the Spit, and City as a whole.

The City of Homer would welcome any opportunity to discuss ways that we could assist you as plans for this important project develop.

Sincerely;

**CITY OF HOMER**

Mary K. Koester  
City Manager

CC:

Michael Britton  
10613 W Sam Houston Pky, Suite 500  
Houston, TX 77064

Dianne Blumer  
421 W 1st Ave, Suite 250  
Anchorage, AK 99501

John J Marshall  
401 9th Ave SW  
Calgary, AB, CA T2P 1K9  
CA

Capt. John Taylor  
16138 Ridge Park Dr  
Houston, TX 77095

Edward Stokes  
10613 W Sam Houston Pky, Suite 500  
Houston, TX 77064

Brenda Maskos  
10613 W Sam Houston Pky, Suite 500  
Houston, TX 77064

Federal Energy Regulatory Commission  
Jim Martin  
888 1st St, NE  
Washington, DC 20426

Josselyn O'Connor  
130 Trading Bay Rd, Suite 320  
Kenai, AK 99611



3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.:USAI-PE-SALTR-00-000047-000

February 25, 2016

Ms. Betsy McGregor  
Environmental Manager  
Alaska Energy Authority  
Susitna-Watana Hydroelectric Project  
813 West Northern Lights Boulevard  
Anchorage, AK 99503

**RE:** Acquisition of TK data from Susitna-Watana Hydroelectric Project

Dear Ms. McGregor:

My colleagues Mark Jennings and Lisa Gray had the pleasure of meeting you and Marie Steele on February 9, 2016 to discuss traditional knowledge (TK) studies completed by the Susitna-Watana Hydro Project and the TK needs of the Alaska LNG Project. As discussed during the meeting, the Alaska LNG Project has identified three communities for TK data collection that overlap with the communities previously surveyed by the Susitna-Watana Hydroelectric Project. The communities are Cantwell, Eklutna and Tyonek. In order to help minimize duplication of effort in those communities, the Alaska LNG Project wishes to acquire/share the TK data previously collected by the Susitna-Watana Hydroelectric Project.

The Alaska LNG Project data requested are as follows:

- The Susitna-Watana Hydroelectric Project TK report for the communities of Cantwell, Eklutna and Tyonek, as submitted to HDR;
- The complete Susitna-Watana Hydroelectric Project TK data for these communities which would consist of quotes in word.doc format.

The TK information provided will be included in Resource Report 5 (Socioeconomics) being submitted as part of the Alaska LNG Project's FERC license application. We plan to apply proper citations for TK information provided by the Susitna-Watana Hydro Project.

We appreciate the assistance and cooperation of the AEA in considering our request. We look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read "Charlie Kominas".

Charlie Kominas  
Alaska LNG Safety, Security, Health, and Environment Manager  
ExxonMobil Development Company  
For and on behalf of ExxonMobil Alaska LNG LLC

cc.Shannon Miller, State Pipeline Coordinator's Office  
Marie Steele, State of Alaska, Department of Natural Resources

U.S. Army Corps of Engineers  
USACE

16945 Northchase Drive, DEV-GP4-498  
Houston, Texas 77060  
832-624-2816  
281-654-3212 Fax

Alaska LNG Project  
Environmental, Regulatory and Land Manager



May 28, 2014

Doc. No.: LT-AKE-EDHO-ACAK-14-0001

Mr. Mike Holley  
U.S. Army Corps of Engineers  
Regulatory Branch  
P.O. Box 898  
Anchorage, AK 99506-0898

**Re: ALASKA LNG FIELD STUDIES PROGRAM – Wetlands Determination Protocol**

Dear Mr. Holley,

BP, ConocoPhillips, ExxonMobil, and TransCanada are currently developing a potential project, known as the Alaska LNG Project, to treat, transport, and deliver natural gas from the Alaska's North Slope to a new liquefied natural gas (LNG) plant and marine terminal on Cook Inlet (the "Project"). The proposed Project includes the following major components in Alaska: an LNG Plant, a Gas Pipeline, a Gas Treatment Plant (GTP), a Prudhoe Bay Unit (PBU) Gas Transmission Line, and a Point Thomson Unit (PTU) Gas Transmission Line. In October 2013, the Project selected a site in the Nikiski area on the Kenai Peninsula as the preferred location for a proposed natural gas liquefaction plant and marine terminal. Pipeline routing definition from the Prudhoe Bay Unit to the plant location is ongoing.

The Project is planning summer field studies to analyze existing environmental conditions along the proposed project footprint and gather information to aid in facility location. Summer field studies will include wetlands mapping and field data collection and verification. The intent is to utilize this wetlands data for the applicable Section 404/10 permits and in the NEPA process, which the USACE will be party to. We submit the attached Wetlands Determination Protocol for your review and endorsement.

We appreciate and thank you for your cooperation. If you have any comments, questions or information requests, please contact Adrienne Rosecrans at (832) 624-2722.

Sincerely,

A handwritten signature in black ink, appearing to read "Charlie Kominas".

Charlie Kominas  
Alaska LNG Project



**Alaska LNG Project**  
16945 Northchase Drive, DEV-GP4  
Houston, Texas 77060

Ref No.: USAKE-EX-SRZZZ-00-0004

August 13, 2014

Mike Holley  
North Section Chief  
Regulatory Division  
US Army Corps of Engineers  
Post Office Box 6898  
2204 3rd St.  
JBER, Alaska 99506-0898

**Re: Review of Wetland Studies Data Gathered by the Alaska Pipeline Project and the Alaska LNG Project**

Dear Mr. Holley:

On behalf of the Alaska LNG Project (Project), this letter and its attachments seek your concurrence regarding data to be used in the regulatory approval process for the Project. As discussed in previous meetings with the US Army Corps of Engineers (USACE), a considerable body of work has been compiled for portions of the Project footprint north of Livengood, Alaska, including data that is common to a previous gas project (Alaska Pipeline Project). The available body of work includes information gathered by the previous project as well as information gathered during supplemental surveys conducted by the Project in 2013.

Some of the previously gathered data are no longer applicable or within the proposed Alaska LNG Project footprint; therefore the Project has developed and enclosed the following: an overview of the Wetlands Program to explain program objectives and summarize study results (Attachment A); two tables, one which presents all wetlands that intersect watersheds crossed by the potential Project footprint north of Livengood and another that summarizes wetland types by watershed north of Livengood (Attachment B); and two mapbooks (one for the Mainline Pipeline and one for the Point Thomson Pipeline) illustrating the locations of all wetlands listed in the tables (Attachment C).

The Project requests USACE's review and endorsement of this data set so that it may be used in the upcoming Federal Energy Regulatory Commission application and resulting Environmental Impact Statement. If you have any questions or require further information, please contact Adrienne Rosecrans at (832) 624-2722.

Sincerely,

A handwritten signature in black ink, appearing to read "Ruben Medrano".

Ruben Medrano  
Alaska LNG  
Regulatory Lead  
For and on behalf of ExxonMobil Alaska LNG LLC

**Enclosures**

Attachment A: Wetlands Program Overview

Attachment B: Table of All Wetlands that Intersect Watersheds North of Livengood and Summary Table of Wetland Types by Watershed North of Livengood

Attachment C: Alaska LNG Mainline Wetland Mapbook, Point Thomson Pipeline Wetland Mapbook

cc: Project files



**From:** [Post, Janet L POA](#)  
**To:** [Jon Schmidt](#)  
**Cc:** [Campellone, Estrella F POA](#); [Kuhle, Cameron POA](#)  
**Subject:** AK LNG Wetland Delineation Letter (UNCLASSIFIED)  
**Date:** Friday, January 30, 2015 10:10:29 PM  
**Attachments:** [SPN-2010-45.pdf](#)  
[AK LNG WD Review Memo 1-30-2015.docx](#)  
[Jurisdictional Determination General Concepts.pdf](#)  
[Example of Aquatic Resources.xlsx](#)

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Classification: UNCLASSIFIED  
Caveats: NONE

Hi Jon:

We have completed our review of the wetland delineation of the AK LNG project from Point Thompson to Prudhoe Bay to Livengood, Alaska prepared by the applicant dated 17 July 2014.

We concur that the wetland boundaries within the study area have been established in accordance with the Corps of Engineers 1987 Wetland Delineation Manual and its 2007 regional supplement for Alaska. The following is an overview of our findings:

- \* Please find attached our special public notice that will give you more details on the components of your wetland delineation.
- \* The wetland delineation data sets submitted by the applicant successfully identifies the waters of the U.S. (WOUS) contained within the study area with the exceptions described in the attached Memorandum for the Record dated 30 January 2015.
- \* Our review was limited to the identification and delineation of WOUS, which is central to our jurisdictional determination. A function and values assessment was not included in this evaluation.
- \* We request that your data be organized as per the attached spreadsheet which will allow us to download your dataset into our National Database (ORM2). As you can see in the spreadsheet, there are columns for waters name, water types, acreage, coordinate, local names, among others. Water types are defined as TNW, TNWWD, RPW, RPWD, and RPWWN; we are attaching a pdf to provide more details on how to separate water types (which also includes wetlands). We recommend you use the 8HUCs to determine the waters name, and the HUC10 to determine the local waters. Because the attached spreadsheet will not allow you to enter two equal waters names, it is recommended that you use the water type as part of the water name (Colville River-TNW for the river and Colville River-TNWW for the wetlands adjacent to the river). Remember that for all TNWs you will need to provide a rationale on why they are navigable in fact(NIF). This rationale provides an explanation as to why a water body sustains navigation and further how a stream flows into a Section 10 water. Please review the information attached and let us know if you would like to discuss this further.

Hope this is helpful,

Janet Post  
Regulatory Specialist  
US Army Corps of Engineers  
Regulatory District Office, JBER  
907.753.2831  
<http://www.poa.usace.army.mil/Missions/Regulatory.aspx>

---

**From:** Rea, Caryn /SEC  
**Sent:** Wednesday, May 20, 2015 1:10 PM  
**To:** Romero, Mary R POA; Jewel Bennett ([jewel\\_bennett@fws.gov](mailto:jewel_bennett@fws.gov)); [martin.gayle@epa.gov](mailto:martin.gayle@epa.gov)  
**Cc:** Antonakos, Elena A  
**Subject:** Wetland Protocols

Hello everyone

Attached are the wetlands protocols the Alaska LNG is following for mapping wetlands in the proposed project area. We had a good discussion about this a couple of weeks ago; subsequently we received a request from Mary to forward these along to all of you. Please cascade through your organization as appropriate. Prior to my joining the Alaska LNG team in mid-October 2014, the permits staff met with Janet Post to review the protocols – based on input received, the protocols were revised to the version you see in this attachment. If there are any glaring omissions from the protocols that you think might be a problem for us as we move toward development of an ASA, please do let us know.

Otherwise, the team will be moving forward with these protocols this season, to be consistent with prior years.

Best,  
Caryn

Sr. EIS Advisor  
AK LNG Project  
3201 C Street, Suite 505  
Anchorage, AK 99503

907.929.4106 (o)



**DEPARTMENT OF THE ARMY**  
**ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS**  
**REGULATORY DIVISION**  
**P.O. BOX 6896**  
**JBER, AK 99506-0896**

JUL 08 2015

**Regulatory Division**  
**POA-2015-329**

**Ms. Caryn Rea**  
**Exxonmobil Alaska LNG LLC**  
**3201 C Street, Suite 505**  
**Anchorage, Alaska 99503**

**Dear Ms. Rea:**

This is in regards to the 2015 Wetland Determination Field Survey Protocols' associated with the natural gas pipeline known as the Alaska Liquid Natural Gas (Alaska LNG) project. The proposed project is located entirely within the state of Alaska and follows the Dalton and Parks Highways for the majority of the route, and crosses Cook Inlet to Nikiski.

Based on the Corps' review of the field protocols report provided on May 20, 2015, and other information made available to the Corps, these are the main comments:

**1. Comments on the wetland delineation protocol:**

- (1) Please provide a map overlaying the 800-mile pipeline and the Nowacki et al. ecoregions (shapefile CD attached). Although LNG may use geographic spreads (segments) for planning purposes, the Corps will require quantification of wetland impacts by ecoregion and watershed units. Acreage of wetland impacts should be grouped by wetland types within specific ecoregions and 8 digit HUC watershed units. Wetland impact acre-calculations using the ecoregion/watershed approach will be used in the alternative analysis, development of the ROD, data entry in ORM-2, and to determine wetland mitigation (avoidance/minimization/compensatory mitigation) at ecoregion/watershed scales.**
- (2) In section 2.2. (Project Area), LNG identified two delineation zones along the 800-mile pipeline: the mapping corridor and a narrower area described as the field survey corridor, which is also the Right of Way/Impact Area. The mapping corridor is a 2,000-foot area with 1,000 feet on either side of the proposed alignment centerline.**

The field survey area is the 300-foot impact area with 150 feet on either side of the proposed alignment centerline. During this field season, LNG plans to concentrate its field data collection and ground truthing only within the 300-foot field survey corridor. Field data collection and ground truthing should occur for the complete 2000-foot mapping corridor. Data outside the 300-foot belt (right of way) is critical to determine jurisdiction and potential changes in project configuration.

- (3) The terminology used in the wetland delineation report and associated datasets shall be in accordance with the 1987 Wetland Delineation Manual and the 2007 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Alaska Region (2007 Alaska Regional Supplement). In the 3.1. Overview section, LNG stated that, 'other non-wetland waters of the U.S. under Corps jurisdiction include deepwater aquatic habitats, unvegetated ponds, river channels, and other special aquatic sites as non-wetlands. The 1987 manual refers to non-wetlands as drier areas or uplands (1987 Manual-page 9, page 11:28.a.). A more appropriate term for deepwater aquatic habitats, unvegetated ponds, river channels, etc. wetter than wetlands is 'other aquatic habitats' leaving the term 'non wetlands' to represent only uplands.
- (4) Follow the Alaska District Special Public Notice 2010-45 when developing the Preliminary Jurisdictional Determination Report (see attached). Data should be provided in a digital GIS format to expedite review. Spatial datasets (ortho-rectified and geo-reference imagery, contour lines, vector data for streams/wetland polygons, sampling sites GPS, etc.) will be required by the Corps to generate the approved jurisdictional determination.
- (5) The Wetland Determination Data Form used in the field must follow the same order as the one provided in the 2007 Supplement and provide specific location (latitude and longitude) and general conditions information. Photopoints should also provide information on their location (latitude and longitude) in the landscape and a brief description of general conditions, vegetation, landform, local relief, slope, natural or anthropogenic disturbances, etc.
- (6) Please ensure wetland delineation and aquatic site assessment sampling points, as well as ground reference points/field targets contained accurately geo-referenced GPS points. The Corps may ask for any pre-mapping information and reference sources used in generating the wetland delineation if such information is not easily accessible through public venues.

- (7) The wetland delineation report must include a section describing the criteria used to extrapolate sampled wetland/non-wetlands to other mapped areas based on vegetative aerial signature and other imagery elements (imagery color, texture, landscape position, etc.). Such section should include comparisons and reference photos of sampled wetlands, field targets, and vegetative signature imagery.
- (8) Section 3.3. - Field target selection: when wetland/non-wetland components are too closely associated to be easily delineated or mapped separately, wetland/non-wetland mosaics are to follow the field protocols described on the 2007 Alaska Regional Supplement (page 98-99). Be mindful that wetland/non wetland mosaics are atypical and considered difficult wetland situations.
- (9) Areas  $\leq 6.6$  ft mean annual depth that support only submergent aquatic plants are vegetated shallows, not wetlands.

**2. Review of the wetland functional assessment protocol:**

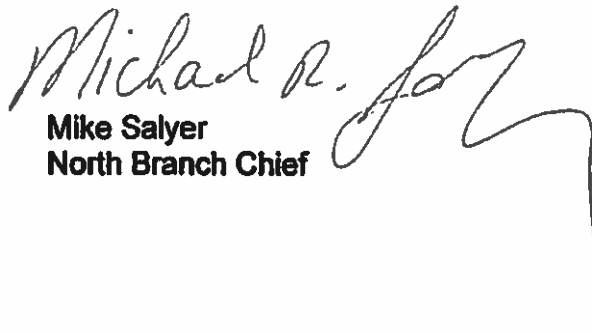
- (1) Magee and Hollands (1998) was developed for the glaciated northeast and mid-west and can be used as an example of a rapid assessment procedure. For Alaska it needs to be modified or redefined to make it applicable to the specific subregions where the project would be located by adding, deleting or modifying the functions, adjusting variables, and variable conditions, or by making other changes appropriate for the location based on ecological conditions.
- (2) Considering the extent of organic flats (peatlands/peat bogs) in Alaska and clear functional differences between organic flats and mineral flats (See Conceptual Framework, table 1. Brinson et al. 1995), we are asking that you please separate organic flat wetlands from mineral flat wetlands. Organic flats may be associated to depressions filled with peat, whereas mineral flats are mainly associated to extensive relic lake bottoms or floodplain terraces without large peat accumulation.
- (3) If the proposed project would include discharges on tidal/estuarine fringe wetland, the aquatic site assessment (ASA) should be one of the hydrogeomorphic classes included within the ASA.

-4-

- (4) Eight functions were identified to evaluate each HGM class. Identify whether a particular function is indeed performed by the HGM class evaluated at the ecoregion scale. If a representative HGM class does not perform a particular function in natural conditions, it is not appropriate to evaluate such function. The aquatic site assessment should provide a rationale on your thought process on the selection of functions (for example, explain whether a hydrogeomorphic wetland class underlay with permafrost will provide groundwater recharge functions, etc.).
- (5) Use different titles for the form used for wetland delineation and for the form used to gather data for the aquatic site assessment (refer to Appendix A, page 4 of the 2015 Field Protocols). Also, provide latitude and longitude data for each aquatic site assessment sites.
- (6) We concur with your statement that the vegetation, soils, hydrology, and landscape variables presented in the 'Aquatic Site Assessment' field form needs to be adapted and defined in relation to each function. An illustration of the relationship between functions and variables by ecoregions will be needed prior to incorporating them into the assessment model and generating the functional indices.
- (7) Please coordinate with the Corps as you generate your functional assessment model and develop the Functional Capacity Index for the various HGM wetland classes.

Please contact Mary Romero via email at [mary.r.romero@usace.army.mil](mailto:mary.r.romero@usace.army.mil), by mail at the address above, by phone at (907) 753-2773, or toll free from within Alaska at (800) 478-2712, if you have questions or concerns. Visit our web site at [www.poa.usace.army.mil/Missions/Regulatory.aspx](http://www.poa.usace.army.mil/Missions/Regulatory.aspx) for additional information about our Regulatory Program.

Sincerely,

  
Mike Salyer  
North Branch Chief

Enclosures



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-EX-SALTR-00-000011-000

July 27, 2015

Mr. Michael Salyer  
North Branch Chief  
US Army Corps of Engineers  
Alaska District, Regulatory Division  
PO Box 6898  
JBER, AK 99506-0898

**Re: POA-2015-329, Alaska LNG Project Wetland Delineation and  
Functional Assessment Protocol Response to July 8, 2015 Letter**

Dear Mr. Salyer:

Thank you for your comments and suggestions regarding Alaska LNG's 2015 Wetland Determination Field Survey Protocols provided to U.S. Army Corps of Engineers (USACE) staff on May 20, 2015. We have reviewed your comments and offer some clarifications, as well as additional information for discussion with your team in the near future. In addition, we have provided a response to the USACE's comments on an aquatic site assessment/functional assessment method for consideration.

**1. Response to USACE comments on the wetland delineation protocol:**

- (1) We have received the ecoregion files from the USACE and will prepare tables (and an overview map) that summarize the temporary and permanent impacts to waters of the US, including wetlands, using the ecoregion breakdown as well as by 8 digit HUC watershed unit. We expect to have the required information in the Draft 2 Resource Reports which will be filed in early 2016.
- (2) Alaska LNG is not planning to conduct ground truthing outside the 300-foot study corridor. However, the area between the 300-foot study corridor and the 2,000-foot wide mapping corridor will be revised based on information gathered during ground truthing efforts to ensure wetlands within the larger mapping corridor are correctly identified. Alaska LNG believes that this method provides accurate and sufficient data for

jurisdictional determinations and comparison of route alternatives, similar to other recent pipeline and linear projects in Alaska, which used the mapping data identified in the 2,000-foot corridor rather than conducting field surveys of each alternative. This is primarily due to the fact that upland or wetland polygons ground truthed within the 300-foot study corridor frequently extend into the 2,000-foot corridor. Field data collection for the entire 2,000-foot wide corridor would require multiple field seasons and an unnecessary and unprecedented burden on Alaska LNG.

- (3) As stated in the Alaska LNG wetland determination plan, the terminology contained in the USACE's 1987 Wetland Delineation Manual and 2007 Regional Supplement will be followed, including the recommendation for classification of non-wetlands as indicated in the USACE's July 8 letter.
- (4) Alaska LNG provided the field data sheets, GPS and GIS files of wetland mapping conducted from 2010 through 2013 for the Project footprint north of Livengood in October 24, 2014. The data were provided in a digital GIS format as described in the USACE letter and it is our intent to provide similar level of detail from the surveys conducted in 2014/2015 for the Project footprint south of Livengood. We will follow the requirements of SPN-2010-45 as outlined in your letter for filing the preliminary jurisdictional determination report.
- (5) Alaska LNG is currently collecting the required wetland determination data referenced on the Data Form provided in the 2007 Supplement, including the latitude and longitude of the locations and on associated photographs. A brief description of general site conditions is also included on the Data Form.
- (6) The field data collection locations, including photographs, include the required GPS information.
- (7) A description of the criteria used to extrapolate sampled wetlands/non-wetlands will be provided in the wetland delineation report. This information was also provided for the data north of Livengood that was supplied to the USACE on October 24, 2014 for their jurisdictional review of the data north of Livengood.
- (8) Alaska LNG will be cognizant of difficult wetland situations as guided by the 2007 Alaska Regional Supplement.
- (9) Areas  $\leq$  6.6 feet mean annual depth that support only submergent aquatic plants will be referred to as 'vegetated shallows' not wetlands.



2. Response to USACE review of the wetland functional assessment protocol:

Alaska LNG is developing an aquatic assessment/functional assessment method to provide to the USACE for their review and concurrence in the near future. The points provided in the USACE letter will be included in our proposed methodology. Please note that the title of our aquatic site assessment (ASA) form will be changed to distinguish it from the wetland determination form. Alaska LNG will coordinate with USACE as the functional assessment model and Functional Capacity Index are refined.

We look forward to meeting with you to review our comments and ensure that we provide the USACE with sufficient information to process future permit applications for the Alaska LNG Project. In the interim, if you have any questions about the content of this letter, please contact Caryn Rea at (907) 229-8972.

Sincerely,



Karen Wuestenfeld  
EIS Team Lead  
Alaska LNG

For and on behalf of ExxonMobil Alaska LNG LLC

cc: James Martin, FERC  
Mary Romero, USACE  
Roberta Budnik, USACE



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000036-000

November 2, 2015

Mr. Michael Salyer  
North Branch Chief  
US Army Corps of Engineers  
Alaska District, Regulatory Division  
PO Box 6898  
JBER, AK 99506-0898

**Re: Alaska LNG's Aquatic Site Assessment Comparison Analysis and Recommended Methodologies**

Dear Mr. Salyer:

Further to the U.S Army Corps of Engineers (USACE) recommendations in a letter dated 8 July 2015, the Alaska LNG Project (Project) has developed a proposed methodology for the implementation of an Aquatic Site Assessment (ASA). The Project compared eight different functional assessment methods previously used in Alaska for various projects (or proposed projects) to arrive at a method using a proposed three-tiered approach:

1. Tier 1 includes compiling existing Project data and landcover classifications (where available) to prepare a draft of wetland functional classes expected to be encountered along the proposed Project route.
2. Tier 2 involves modifying and employing the Rapid Aquatic Assessment Method (RAAM), Alaska Wetlands Assessment Method (AKWAM), and Aquatic Functional Rapid Ranking System (AFRRS) methods to capture the variations in wetland function that occur in the eight ecoregions that comprise the Project area. The modified methodologies will be used to assign standardized functional capacity rankings to the wetland functional classes identified in Tier 1.
3. Tier 3 incorporates existing available GIS datasets to assign geographic context to the standardized functional capacity rankings established in Tier 2. An example of a Tier 3 application would include using recreation or subsistence-use spatial data to identify aquatic resources that may support these activities.

Please see the attached document entitled *Aquatic Site Assessment Methodology Review and Recommendations* for additional information regarding the Project's analysis, conclusions and recommendations.

We look forward to meeting with you to review our recommendations and ensure that the ASA will contain sufficient information to process future Project permit applications. In the interim, if you have any questions about the content of this letter, please contact Caryn Rea at (907) 929-4106 or (907) 229-8972.

Sincerely,



*for* Karen Wuestenfeld  
On behalf of Applicants

cc: Project files  
Caryn Rea, Alaska LNG Project  
Sandy Gibson, USACE Alaska LNG Project Manager  
Estrella Campellone, USACE

Enclosure



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000048-000

March 10, 2016

Mr. Ryan H. Winn  
North Section Chief,  
CEPOA-RD  
U.S. Army Corps of Engineers  
Post Office Box 6898  
JBER, AK 99506-0898

**Re: Wetlands Mapping Protocols for the Alaska LNG Project POA-2015-329 and 2015 Wetland Field Study Report**

Dear Mr. Winn:

Please find enclosed the 2015 Wetland Field Study Report prepared by AECOM for the Alaska LNG Project (Project). This is the third annual wetlands report provided to the U.S. Army Corps of Engineers (USACE). Previous reports were submitted on October 24, 2014, and May 20, 2015, to cover the 2013 and 2014 field seasons, respectively. After the 2016 summer field season, the Project will submit a final Wetlands Delineation Report that encompasses all work performed through 2016 and fully addresses all review comments received from the USACE.

As described in previous correspondence (i.e., letters accompanying the 2013 and 2014 reports), the Project has been applying a USACE-approved mapping protocol that involves a three-tiered approach.

1. The pre-mapping component uses digital ortho-rectified and geo-referenced true color aerial photography at a 1.6-foot pixel resolution from multiple sources including the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) digital datasets, Light Detection and Ranging (LiDAR)-generated topographic contours, and Natural Resources Conservation Service (NRCS) soil surveys. Field targets are then selected from the pre-mapping effort to verify both reference polygons and areas with potential mapping uncertainties to better define the wetland boundaries and NWI classifications.
2. Field targets identified through the pre-mapping effort are surveyed in the field using sample plots and wetland data forms, then confirmed for accuracy against the mapped classifications.
3. The maps are revised to incorporate the field data and then finalized.

This mapping protocol is consistent with the Federal Wetland Delineation Offsite Method for identifying and delineating wetlands. Field protocols are consistent with both the 1987 Wetland Delineation Manual and the 2007 Alaska Regional Supplement. This methodology is used by both NRCS and USACE for wetland/jurisdictional determinations both in Alaska and the lower 48 (subject to the local Regional Supplement) and has been accepted by the Alaska District per email from Janet Post, dated January 30, 2015, and letter from Mike Salyer dated July 8, 2015). Enclosed please find the 2015 Wetland Field Study Report and a portable hard drive with digital data including the wetland data forms, field photographs, and GIS data.

We respectfully request concurrence that the wetland mapping protocols employed by the Project and described in the 2015 Wetland Field Study Report remain acceptable to the USACE.

We hope to meet with you in the near future to discuss the 2015 Wetland Field Study Report. If you have any questions about the content of this letter, please contact Caryn Rea at (907) 229-8972 or via email at [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld

EIS Team Lead

For and on behalf of the Applicants

cc: Project files  
Sandy Gibson, USACE

Enclosures:

2015 Wetland Field Study Report

Portable hard drive of Report Appendices, digital data, field photos, and data forms



**DEPARTMENT OF THE ARMY**  
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
REGULATORY DIVISION  
P.O. BOX 6898  
JBER, ALASKA 99506-0898

**May 2, 2016**

Regulatory Division  
POA-2015-329

Alaska LNG  
Attn: Ms. Karen Wuestenfeld  
3201 C Street, Suite 506  
Anchorage, Alaska 99503

Dear Ms. Wuestenfeld:

This letter is in response to your March 10, 2016 request for a Department of the Army (DA) review and concurrence of the third annual wetlands report. It is our understanding that Alaska LNG (AK LNG) intends to submit the final Wetland Delineation Report after the 2016 sampling season. The 2015 wetlands report included the following survey areas: Revision (REV) B route from Nikiski milepost (MP804), northwest across Cook Inlet to Beluga (MP 764) then continuing north along the Rev B route into the Brooks Range foothills where the northern extent of field data collection concluded near MP 86. Your project has been assigned DA number POA-2015-329, which should be referred to in all correspondence with us.

Based upon our review of the information you provided which is currently underway, we wish to provide you with the following comments and considerations which are based upon your latest submittal:

1. The mapping procedures and protocols provided in your wetlands report appear to be compliant with the requirements stated within Special Public Notice 2010-45 *Corps of Engineers Regulatory Program Consultant-Supplied Jurisdictional Determination Reports*.
2. Regarding the map projections, it appears AECOM used GCS NAD 83. When we compare the acreage values with Alaska Albers NAD 83, the amount was slightly higher. On a small scale, this would not make much difference but with a project of this scale, there is concern that the additive effect of the totals would result in a large impact area. Please use Alaska Albers NAD 83.
3. Is it possible to remove or separate previously delineated areas into a second data layer so that the GIS current layer is directly associated with the current project proposal? [Note: see the pipeline alignment north of Cook Inlet and at Nikiski - There are multiple sections of linear features that aren't defined - are these previous routes that were eliminated?]
4. Cook Inlet is flagged as "N/A" among several other areas along the proposed pipeline route. Please provide clarification on the "N/A" designation and why

these areas are not characterized according to uplands, wetlands, navigable waterway, etc.

5. Data points were identified as being wetland in the attributes table, "N/A" on the HGM field and "U" for the Cowardin class (i.e., W85TI018). Understandably, some areas can be field verified as occurring differently from NWI but the current example is confusing.
6. Ensure data sheets are present for field data points (i.e., W85IN024\_OP and \_OP2). A field sheet exists for W85IN024 however there were no additional forms to support findings for the two alternate points with the \_OP name extensions. Several of these data points exist for different areas. Clarification of nomenclature and field forms (if applicable) are appreciated.
7. Additionally, W84HT023\_OP is indicated as PFO yet attributes table has "N/A" in primary vegetation type. Also, there is no correlating field form to review for clarification. In contrast, W84HT023 is designated as PEM in the attribute table. This classification is supported based upon the vegetation types identified in the field form.
8. Additional efforts are needed to further increase field visibility within the reported 220 (noncontiguous) miles of pipeline corridor currently identified as inaccessible or outside range of feasible accessibility. Based upon responses received from EXP Energy Services, Inc., some of these areas (~49,000 acres) are inaccessible due to the unauthorized right of entry (ROE) agreements with landowners. What is AK LNG's plan to work with these landowners to obtain ROE in order to close data gaps in field data collection? Assuming efforts will be ongoing, please continue to keep the Corps updated on your progress as inaccessible sites are removed or potential alternative strategies, if applicable, to address areas deemed physically inaccessible.

Because the review is ongoing at this time, we will continue to provide feedback as needed based upon our findings as we believe they will provide future benefit towards completion of the full delineation report. If you have questions or to request a paper copy of the DA permit application, please contact me via email at [sandy.p.gibson@usace.army.mil](mailto:sandy.p.gibson@usace.army.mil), by mail at the address above, by phone at (907) 753-2877, or toll free from within Alaska at (800) 478-2712. For more information about the Regulatory Program, please visit our website at <http://www.poa.usace.army.mil/Missions/Regulatory.aspx>.

Sincerely,

Sandy P. Gibson  
Project Manager

Copy Furnished:

Federal Energy Regulatory Commission –  
Mr. James Martin – [james.martine@ferc.gov](mailto:james.martine@ferc.gov)

Alaska LNG

Ms. Caryn Rae – [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com)

Mr. Philip Brinkmann – [Philip.e.brinkmann@exxonmobil.com](mailto:Philip.e.brinkmann@exxonmobil.com)

EXP Energy Services, Inc.

Mr. Michiel Holley – [mike.holley@exp.com](mailto:mike.holley@exp.com)





**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000052-000

June 27, 2016

Ms. Sandy Gibson  
Project Manager,  
CEPOA-RD  
U.S. Army Corps of Engineers  
Post Office Box 6898  
JBER, AK 99506-0898

**Re: Aquatic Site Assessment Pilot Program for the Alaska LNG Project POA-2015-329**

Dear Ms Gibson:

Please find enclosed the 2016 Aquatic Site Assessment (ASA) Pilot Program for the Alaska LNG Project (Project). This is a follow-up to the May 11, 2016, meeting in which the Project staff provided an overview of the Project's Aquatic Site Assessment Methodology Review and Recommendations. This document compares 8 different assessment methods that have been used previously on projects reviewed by the Alaska District, U.S. Army Corps of Engineers (USACE).

As discussed during the meeting, the Project is proposing to perform preliminary assessments on wetlands in the three major ecoregions crossed by the Project as part of a pilot program. The pilot program will provide information regarding both the usefulness and appropriateness of using either or both methods in relation to the wetlands impacted by the Project and the various ecoregions being crossed. We are proposing the use of two different methods (with modifications) to see if one is better suited for different ecoregions of the state than the other. The two methods are ADOT&PF's Alaska Wetland Assessment Method (AKWAM) and ABR's Aquatic Function Rapid Ranking System (AFRRS).

Each method will be modified to include wetland characteristics outside of the major ecoregions that each was originally developed for and applied to. AKWAM was originally developed for interior Alaska (Intermontaine Boreal) and AFRRS was originally developed for the North Slope (Polar/Arctic Tundra). Both methods will have to be modified for the other two major ecoregions including Southcentral (south of the Alaska Range known as Alaska Range Transitional which includes the Cook Inlet).

We respectfully request concurrence that the proposed ASA pilot program is acceptable. The results of the modifications and pilot program will be shared with USACE at the conclusion of the program in the Fall of this year (2016). If you have any questions about the content of this letter, please contact Caryn Rea at (907) 229-8972 or via email at [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,

A handwritten signature in cursive script that reads "P Brinkmann".

Phillip Brinkmann  
Licensing Manager  
For and on behalf of the Applicants

cc: Project files  
Mary Romero, USACE  
Caryn Rea, Alaska LNG

Enclosures:  
2016 ASA Pilot Program



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-90-000004-000

July 18, 2016

Sandy P. Gibson  
Project Manager  
Regulatory Division, North Branch  
Alaska District  
U.S. Army Corps of Engineers  
Post Office Box 6898  
JBER, AK 99506-0898

**Re: Letter to USACE - Review of Nikiski Capital Dredge Material Characterization SAP**

Dear Ms. Gibson:

ExxonMobil Alaska LNG LLC (EMALL) on behalf of the Alaska LNG Project (Project) is requesting your review of the revised Sampling and Analysis Plan (SAP) for the Alaska LNG Project sediment sampling program at Nikiski to support future evaluation and permitting of potential capital (construction) dredging in Cook Inlet.

We would greatly appreciate feedback on the SAP by July 29<sup>th</sup> if possible so that we can incorporate any modifications and plan potential future work programs.

We appreciate and thank you for your cooperation. If you have any questions about the enclosed plan, please contact Jeff Raun at 907-929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink that reads "PE Brinkmann".

Philip Brinkmann  
Alaska LNG Project  
Licensing Manager  
For and on behalf of ExxonMobil Alaska LNG LLC (EMALL)

Enclosure:  
Capital Dredge Material Characterization Sampling Analysis Plan (Doc No. USAL-CH-JPZZZ-90-000008-000)

cc:  
Mary Romero – USACE  
Chris Meade – EPA  
Jennifer Murrell - ADNR  
James Rypkema - ADEC

U.S. Coast Guard

USCG



May 15, 2014

Captain Paul Mehler III  
Captain of the Port, Western Alaska  
Sector Anchorage  
G-Wing Bldg 49000  
Army Guard Road  
JBER, Alaska 99505-0727

Re: **Letter of Intent**  
**Alaska LNG Project**

Dear Captain Mehler III:

ExxonMobil Alaska LNG, LLC, ConocoPhillips Alaska LNG Company, and BP Alaska LNG LLC (the "Alaska Parties") are working together with other parties, including TransCanada Alaska Midstream LP and the Alaska Gasline Development Corporation, to develop the Alaska LNG Project ("Project"), which would consist of a liquefied natural gas ("LNG") terminal including natural gas liquefaction, storage and marine loading facilities ("LNG Plant"), a natural gas treatment plant, and natural gas transport pipelines. The Project is being developed for the purpose of liquefying supplies of natural gas from Alaska for export to foreign markets. The Alaska Parties are working to construct, own, and operate the LNG Plant, which would be an approximately 20 million metric tons per annum ("MTA") LNG facility near Nikiski, Alaska. The LNG Plant would be sited on 400 to 800 acres of land within the Kenai Peninsula Borough north of Nikiski and Kenai through the acquisition of property from private, commercial, and borough landowners. In accordance with U.S. Coast Guard ("USCG") regulations at 33 CFR § 127.007, the Alaska Parties are pleased to submit the following information about the Project.

***1. Name, address and telephone number of the owner and operator.***

The LNG Plant will be owned and operated by the Alaska Parties. The permanent address and telephone number for the owner and operator of the LNG Plant has not been established yet. In the interim, please contact the following representative of the Alaska Parties:

Charlie Kominas  
Environmental, Regulatory and Land Manager  
Alaska LNG Project  
3201 C St., Suite 506  
Anchorage, AK 99503  
(832) 624-2816

Edward G. Stokes, Marine Project Manager for the Alaska LNG Project, will also be supporting the USCG engagement effort.

**2. The name, address, and telephone number of the Federal, State, or local agency having Jurisdiction for siting, construction, and operation.**

The lead federal agency with jurisdiction over the Project is the Federal Energy Regulatory Commission ("FERC" or "Commission"). FERC will have the responsibility of reviewing the environmental and safety aspects of the Project and preparing the environmental documents required by the National Environmental Policy Act of 1969 ("NEPA"). The mailing address and telephone number for general inquiries is:

Federal Energy Regulatory Commission  
 Lauren O'Donnell, Director  
 OEP, Division of Gas - Environment and Engineering (PJ-11)  
 888 First Street NE  
 Washington, DC 20426  
 Telephone: (202) 502-8325  
[lauren.odonnell@ferc.gov](mailto:lauren.odonnell@ferc.gov)

In addition to the environmental reviews by the FERC for authorization of the Project under Section 3 of the Natural Gas Act ("NGA"), other federal, state, and local agencies participate in the overall regulatory process such as the U.S. Department of Energy ("DOE") for authorization to export LNG to both Free Trade Agreement and Non-Free Trade Agreement countries, the U.S. Army Corps of Engineers ("USACE") for activities affecting wetlands and waterways, the Alaska Department of Environmental Conservation ("ADEC") for air emissions and water discharge permits, the Kenai Peninsula Borough Planning Department, and other agencies as applicable.

**3. Name, address, and telephone number of the facility**

The permanent address and telephone number for the LNG Plant has not been established yet. In the interim, please contact the following representative of the Alaska Parties:

Charlie Kominas  
 Environmental, Regulatory and Land Manager  
 Alaska LNG Project  
 3201 C St., Suite 506  
 Anchorage, AK 99503  
 (832) 624-2816

**4. The physical location of the facility**

The LNG Plant site is located in a primarily industrial area in proximity to the existing ConocoPhillips LNG Plant near Nikiski, Alaska, on the eastern shore of Cook Inlet, approximately 100 nautical miles from the entrance to Cook Inlet from the Gulf of Alaska. Cook Inlet is approximately 180 nautical miles north to south. The LNG Plant site is located as shown in Attachment 1, Figure 1. The site is currently accessible by road and is located in proximity to the Kenai Spur Highway as shown in Attachment 1, Figure 3.

## **5. A description of the facility**

The LNG Plant site will include the structures, equipment, underlying access rights and all other associated systems for pre-processing and liquefaction of natural gas, and storage and off-loading of LNG, including marine terminal facilities and auxiliary marine vessels used in support of marine terminal operations (but excluding LNG carriers). The LNG Plant will contain three (3) liquefaction trains that combined will process approximately 20 MTA of LNG. Three (3) 160,000 cubic meter (m<sup>3</sup>) tanks will be used to store the LNG. The LNG Plant will be capable of accommodating two (2) LNG carriers.

The site location of the LNG Plant is shown in Attachment 1, Figures 1 – 3. Construction is projected to begin in the 2018/2019 timeframe with proposed facilities placed into service sometime in the 2024/2025 timeframe.

The LNG Plant will include the following features:

**Inlet Receiving Station:** Feed gas would be transported to the site boundary via a proposed 42-inch gas pipeline. The Inlet Receiving Station would include an incoming interconnect pipeline, a pig receiver, a filter/separator, custody transfer meter(s), a pressure regulator, an emergency shutdown valve, and a gas analyzer.

**LNG Trains:** Each individual LNG train would include the following essential facilities: Separators, Dehydration and Mercury Removal Beds, Compressors, Distillation Columns and Heat Exchangers.

**LNG Storage:** Three full containment LNG storage tanks each with a net working capacity of approximately 160,000 m<sup>3</sup> would store the LNG product. These LNG storage tanks would be designed to meet the requirements of the National Fire Protection Association ("NFPA") Standard 59A, regulations of the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration ("PHMSA") contained in 49 CFR Part 193, and other applicable standards.

**LNG Vessel Loading:** To accommodate LNG vessels and to minimize interference with existing ship channel traffic, the LNG loading terminal and berth pocket will be situated in Cook Inlet to enhance the safe and efficient loading of LNG vessels. Any required dredging would be done in accordance with the relevant guidelines and in coordination with the USACE. The berth size, location, and orientation would be designed to optimize a number of criteria, primarily to ensure safe navigable approach and departure conditions, a safe mooring environment, proximity to the channel, and safe distance from the influence of passing vessels. Other influences include water depth and optimization of the cryogenic piping arrangement. To achieve the currently proposed maximum 12,500 cubic meters per hour (m<sup>3</sup>/hr.) loading rate for one LNG vessel, the main cryogenic LNG line from the LNG tank to the loading platform would be optimally sized. LNG loading arms would be used to transfer the LNG from the platform to the vessels. A vapor return arm for transfer of the boil-off gas from the vessels to the LNG facilities and a spare hybrid liquid / vapor arm would also be supplied.

**Flare System:** The pressure relief and flare system would include shore side flares and would be designed to safely and reliably dispose of streams that would need to be vented during startup, shutdown, LNG vessel gas-up operation, plant upsets, and emergency conditions.

**Buildings:** The LNG Plant would include separate buildings for administration, control room, and workshop functions.

**Power Supply:** The majority of the LNG Plant's power requirements for liquefaction would be generated by multiple gas turbines on site for each LNG train. Power from the turbines would also run motors for LNG loading pumps and boil-off gas compressors, lighting, and other items.

**Water Supply:** The LNG Plant would utilize air coolers as the base case. Water cooling using a closed loop system will be studied during the pre-front end engineering and design (pre-FEED) stage. Prior to filing the Follow-on Waterway Suitability Assessment (WSA) and FERC application, a decision on air versus water cooling will be completed. In either case, a source of water will be required for plant utility needs.

**Communication System:** The communication system at the LNG Plant site would be comprised of a telephone exchange, a radio system, a computer network, a plant telecommunication network, a telemetry system for data transfer to/from gas production sites, an electronic mail system for communication, and a closed-circuit television (CCTV) system.

**Plant Safety:** The LNG Plant will meet the requirements under NFPA 59A, PHMSA regulations at 49 CFR Part 193, USCG regulations at 33 CFR Part 127, and other applicable standards for safety and fire protection.

**Plant Security:** The LNG Plant would be subject to USCG facility security regulations under Maritime Transportation Security Act (MTSA) regulations at 33 CFR Part 105 and will have a facility security plan approved by the USCG. The LNG Plant will meet all necessary security measures required under those regulations including security fencing, lighting, access control, and CCTV.

#### ***6. The LNG vessels' characteristics and the frequency of the LNG export shipments from the Facility***

The LNG Plant is being designed with new berthing and mooring configurations to accommodate LNG carriers. The berthing and mooring configurations will be able to accommodate LNG carriers with capacities between 125,000 and 216,000 m<sup>3</sup>. It is currently projected that, on average, 20 LNG carriers per month would make port calls at the LNG Plant.

#### ***7. Charts showing waterway channels and identifying commercial, industrial, environmentally sensitive, and the residential areas in and adjacent to the waterway to be used by the LNG vessels in and out of the facility, within 25 kilometers (15.5 miles) of the Project.***

A chart showing the waterway channel to be used by the LNG carriers to and from the facility is presented in the attached figure which also shows commercial, industrial, environmentally sensitive, and the residential areas in and adjacent to the waterway (See Attachment 1, Figure 2). In addition to the information above, the Alaska Parties are providing a Preliminary WSA ("PWSA") as Attachment 1. Our PWSA has been prepared in accordance with the guidance contained in USCG Navigation and Vessel Inspection Circular 01-2011. If the Coast Guard has any questions or requires any additional information or clarification, please feel free to contact Charlie Kominas at (832) 624-2816.



Sincerely,

		
Lydia Johnson ExxonMobil Alaska LNG, LLC	Darren Mezharich ConocoPhillips Alaska LNG Company	David Van Tuyl BP Alaska LNG LLC

**Attachments:**

**Preliminary Waterway Suitability Assessment**

**Figure 1: Proposed LNG Carrier Transit Route**

**Figure 2: LNG Plant Site**

**Figure 3: LNG Plant Site Marine Facilities Conceptual Layout**

**cc: Joe Dubler, Alaska Gasline Development Corporation**  
**Tony Palmer, TransCanada Midstream**  
**Project File**



**Alaska LNG Project**

3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SAL TR-00-000003-000

December 3, 2015

Captain of the Port  
U.S. Coast Guard Sector Anchorage  
G-Wing, Building 49000  
Army Guard Rd.  
JBER, AK 99505

**Re: Use of Pipe-in-Pipe in the Marine Transfer Area; NFPA 59A (2013)**

Dear Sir:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, and ExxonMobil Alaska LNG LLC (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce and opportunities for in-state deliveries of natural gas.

This letter requests that the United States Coast Guard (USCG) concur with the Project's use of NFPA 59A (2013) in lieu of NFPA 59A (1994) as cited in 33 CFR 127.003. This letter provides the Project's rationale in choosing to examine the use of cryogenic pipe-in-pipe per NFPA 59A (2013) for LNG transfer piping at the proposed liquefaction facility at Nikiski, Alaska. This request follows up our meeting and presentation on the topic with CDR Cintron and staff on October 6, 2015. Enclosure (1) provides the technical material related to topic presented at that meeting.

The USCG has jurisdiction over the marine transfer area of the LNG terminal between the vessel and the last valve before the tank (33 CFR 127.005). Similarly, the 2004 Interagency Agreement among the USCG, the Federal Energy Regulatory Commission (FERC), and the Pipeline and Hazardous Materials Safety Administration (PHMSA) states that USCG jurisdiction includes "all matters pertaining to the safety of the facility or equipment located in or adjacent to the navigable waters up to the last valve immediately before the receiving tank." The USCG, in 33 CFR 127.017 Alternatives, permits the COTP to "allow alternative procedures, methods, or equipment standards to be used by an operator instead of any requirements in this part" subject to certain requirements.

Under NFPA 59A standards (1994, 2001, 2006 and 2013), transfer areas for LNG shall be provided with impoundment in a manner that minimizes the possibility of accidental spills and leaks that could endanger structures, equipment, or adjoining property or that could reach waterways. A secondary containment system has typically been incorporated under the LNG transfer piping to channel a potential release of LNG liquid into an impoundment area designed for a specified volume of LNG. Historically and prior to the release of NFPA 59A (2013) LNG transfer piping was a single-wall design with an outer insulation layer and an open culvert-type system constructed of cryogenic concrete. NFPA 59a (2013) specifically addressed the use of pipe-in-pipe technology.

Several site-specific challenges in Nikiski, such as the large elevation difference between the trestle and LNG storage tanks, the sub-arctic winter weather conditions, and the extreme tides and currents, led the Project to evaluate and select an alternative design that meets regulatory requirements. The geometry of the proposed LNG marine terminal at Nikiski is not conducive to a traditional-type catchment and vapor

barrier system; the LNG loading berths are approximately 3,400 feet from the shoreline and approximately 100 feet below the elevation of the LNG storage tanks. A traditional design featuring a channel and vapor barriers/shrouds would add significant weight and complexity to the trestle and berth structure. In sub-arctic winter weather conditions, the traditional design would necessitate personnel manually clearing snow and ice and potentially performing other maintenance activities for the channel and vapor barriers at height above the water in unfavorable conditions.

Due to these site-specific challenges, the Project intends to provide the required secondary containment system under LNG transfer piping leading from the storage facility to the marine terminal through use of a cryogenic pipe-in-pipe system. The system will be in accordance with NFPA 59A (2013) that specifically addresses the use of this technology as a secondary containment system (*Section 9.11 Cryogenic Pipe-in-Pipe Systems*). Additionally, CG-OES Policy Letter No. 02-15, *Guidance Related to Vessels and Waterfront Facilities Conducting LNG Marine Fuel Transfer Operations*, Enclosure (4), Table of Alternatives to 33 CFR 127 for LNG Fuel Transfer states that NFPA 59A (2013) is an acceptable alternative to the reference cited in 33 CFR 127.003. Further, through an informal inquiry to USCG Headquarters (Mr. Ken Smith, Assistant Division Chief, Vessel & Facility Operating Standards Division – G-PSO-2) we were informed that while 33 CFR 127 points to NFPA 59A (1994) and is regulatory in reference, the USCG would not have an issue with NFPA 59A (2013) standards in the construction of new LNG terminals.

The use of pipe-in-pipe design for the LNG transfer piping offers distinct advantages for the Alaska LNG Project. Use of a pipe-in-pipe system would reduce the weight of materials and required support structures engineering for a long trestle as well as resolve impoundment placement and any additional vapor barrier placement issues. It would allow for quicker detection of any leakage through the inner pipe and not allow for the unconfined escape of vaporized LNG. Pipe-in-pipe systems would eliminate areas for the accumulation of water in catchment systems and in winter conditions prevent the formation of ice and snow buildup, reducing the requirement for personnel to potentially work over the water. Overall the Project feels that pipe-in-pipe systems are much safer in providing the required protection than legacy open culvert and impoundment systems at the Nikiski location.

We appreciate your assistance in this matter and look forward to your response. Should you have any questions or require further information, please contact Dave Raaf at 835 625 6525, email [dave.raaf@exxonmobil.com](mailto:dave.raaf@exxonmobil.com) or Dennis Maguire at 978 400 8950 / [dennis.maguire@exxonmobil.com](mailto:dennis.maguire@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG Project  
Safety, Security, Health and Environment Manager  
For and on behalf of ExxonMobil Alaska LNG, LLC

Enclosure (1) Alaska LNG, USCG Pipe-in-Pipe Presentation, dated October 6, 2015 (USAL-PL-SAPPT-90-000001-00)

cc:  
FERC



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-00-000004-000

December 30, 2015

Captain of the Port  
U.S. Coast Guard Sector Anchorage  
G-Wing, Building 49000  
Army Guard Rd.  
JBER, AK 99505

**Re: Request for Alternative Compliance per 33 CFR 127**

Dear Sir:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC (EMALL), and TransCanada Alaska Midstream LLP (a wholly-owned affiliate of AGDC, and with AGDC, collectively referred to herein as "AGDC") plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit and Prudhoe Bay Unit production fields on the Alaska North Slope, for export in foreign commerce and opportunities for in-state deliveries of natural gas.

In accordance with the provisions of 33 CFR 127.017, EMALL, on behalf of the Project is requesting USCG approval of an alternative method of compliance to the requirements of 33 CFR 127.601 and 127.607, specifically the requirement for fire hydrants and hoses along the length of the trestle supporting the LNG transfer lines between the product loading berths and the shore side abutment. The product loading berths and the Marine Terminal Building which is located alongside the trestle would continue to comply with these requirements. The Project would use a Firefighting 1 (FiFi 1) classed tug to provide the necessary fire protection on the trestle in lieu of the hydrant and hose system required by 33 CFR 127.607 for the distance between the product loading berths and the shore side abutment. A (FiFi 1) classed tug will be in close proximity whenever an LNGC is at berth in lieu of the hydrant and hose system.

All the LNG transfer piping along the trestle is welded piping without any flanges, piping branch connections to other plant facilities, valves or equipment and is separated from the road bed such that it cannot be struck by a vehicle driving along the trestle. Furthermore, the trestle is not an occupied structure, but is being designed to support the LNG and vapor transfer lines to load LNGCs and other minor utilities services (e.g. air, water and electrical). It is also being designed to provide access for personnel and supplies transiting to/from the LNGC and maintenance of equipment and system. A FiFi 1 equipped tug would provide better coverage and capabilities to those required by 33 CFR 127.607. The use of a FiFi 1 tug would greatly enhance the safety of firefighting personnel as significant volumes of water could be directed on necessary areas remotely without the need for personnel to engage in close proximity extinguishment and exposure to either the extreme weather elements, unignited vapors or the thermal flux of any flames. A typical FiFi 1 equipped tug can deliver 2400 cubic meters/hour (10,500 gallons per minute) of seawater from two monitors at a throw length of 120 meters (394 feet) and a throw height of 45 meters (148 feet). These capabilities and evacuation procedures would be included in the Emergency and Dock Manuals.

The following table provides a comparison between the system required by regulation and the FiFi 1 equipped tug system proposed. It demonstrates that the tug coverage is superior to that required by the regulations.

### Comparison of Capabilities between Proposed Alternative and Required Equipment

	Minimum nozzles / monitors	Approximate GPM	Approximate stream throw length	Personnel protection	Comments
Required by 33 CFR 127.607	2 hoses 1 1/2" hose diameter	100 GPM / hose; Total 200 GPM*	100 feet	None specified	Limited maneuverability, puts responders in proximity to danger
Alternative w/ FiFi 1 tug	2 monitors (remotely controlled)	5,250 GPM / monitor; Total 10,500 GPM	394 feet	Fixed water curtain for tug	Highly maneuverable, superior capability, affords significant protection for responders

\* Based on a minimum 75 PSI at the end of a standard fog nozzle and 100 feet of 1 1/2" hose per 33 CFR 127.607 (c)(2)

As stated in 33 CFR 127.017 the Captain of the Port may allow alternative procedures, methods, or equipment standards to be used by an operator instead of any requirements in this part if the alternative provides at least the same degree of safety provided by the regulations in this part. As discussed above, and with the information provided in the comparison table, the alternative proposed by the Project fulfills that requirement.

We appreciate your assistance in this matter and look forward to your response. Should you have any questions or require further information, please contact Dave Raaf at 835-625-6525 / [dave.raaf@exxonmobil.com](mailto:dave.raaf@exxonmobil.com) or Dennis Maguire at 978-400-8950 / [dennis.maguire@exxonmobil.com](mailto:dennis.maguire@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG Project  
Safety, Security, Health and Environment Manager  
For and on behalf of ExxonMobil Alaska LNG, LLC



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-00-000005-000

March 16, 2016

Captain Paul Albertson  
Captain of the Port, Western Alaska  
U.S. Coast Guard  
Sector Anchorage  
G-Wing Bldg 49000  
Army Guard Road  
JBER, Alaska 99505

**Re: Submittal of Alaska LNG Project Follow-on Waterway Suitability Assessment Report pursuant to 33 CFR 127.007**

Dear Captain Albertson:

Pursuant to 33 CFR 127.007 and 18 CFR 157.21, the attached Follow-on Waterway Suitability Assessment (WSA) Report is being submitted in support of the Alaska LNG Project. The Follow-on WSA Report has been marked as Sensitive Security Information (SSI) and the file is password protected. The password will be transmitted separately.

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LLP<sup>1</sup> (a wholly owned affiliate of AGDC, and with AGDC, collectively referred to herein as "AGDC") plan to construct one integrated liquefied natural gas (LNG) Project. The Project includes interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit and Prudhoe Bay Unit production fields on the Alaska North Slope, for export in foreign commerce and opportunities for in-state deliveries of natural gas. The proposed Liquefaction Facility will be supplied by an approximately 800-mile natural gas pipeline from the North Slope, located on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula. The Liquefaction Facility is composed of an LNG Plant and Marine Terminal.

The Follow-on WSA Report is the culmination of a multi-stakeholder process carried out in accordance with the guidance in Navigation and Vessel Inspection Circular (NVIC) No. 01-2011 and through coordination with the U.S. Coast Guard (USCG) Sector Anchorage Waterways Management Division. A Letter of Intent and Preliminary WSA in support of the Alaska LNG Project was previously submitted to the USCG on May 15, 2014.

The attached Follow-on WSA Report describes the suitability of the waterway to support additional marine traffic associated with proposed Liquefaction Facility. The report assesses the safety and security of LNG carriers while at berth and during transit to and from the Liquefaction Facility. The Follow-on WSA considers credible safety and security events, infrastructure dependencies and impacts along the proposed LNG carrier route, and assesses resources for safe and secure LNG carrier transit and operations.

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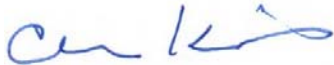
<sup>1</sup> TransCanada Alaska Midstream LLP is in the process of being dissolved as a corporate entity by AGDC. AGDC will submit an update to the Alaska LNG Project FERC docket (No. PF14-21-000) once the dissolution becomes effective.

The report will support your evaluation of the proposed Project, and will provide a basis for USCG decision-making for issuing a Letter of Recommendation (LOR) to the Federal Energy Regulatory Commission (FERC) as to the suitability of the waterway in question for LNG carrier marine traffic.

Thank you for your staff's support and coordination during this process.

Please contact me at (832) 624-2816 or [charlie.kominas@exxonmobil.com](mailto:charlie.kominas@exxonmobil.com) if you have any questions.

Sincerely,



Charlie Kominas  
Alaska LNG Project  
Safety, Security, Health & Environment Manager  
For and on behalf of Alaska LNG Project Applicants

Enclosure:

Follow-on Waterway Suitability Assessment Report

cc:

CDR Hector Cintron, USCG-Sector Anchorage  
LT Eugene Chung, USCG-Sector Anchorage  
Jim Martin, FERC  
Jennifer Lee, NRG

**Joseph, Claire E**

---

**From:** ShareFile Notifications (No Reply) <noreply@sf-notifications.com>  
**Sent:** Monday, March 21, 2016 12:26 PM  
**To:** Joseph, Claire E  
**Subject:** ShareFile Activity Notification



## Notification Summary

Below is a summary of upload and download activity on folders for which you've chosen to be notified.

### Uploads

There is no upload activity to report.

### Downloads

**claire.e.joseph@exxonmobil.com > Alaska LNG Waterway  
Suitability Assessment**

**Name:** USAI-EX-SPZZZ-00-000008-000-n\_0\_Follow-on\_W  
**SA\_031816\_password.pdf**

**Size:** -- • **Downloaded:** 3/21/16 12:25p

**User:** LT Eugene Chung [eugene.chung@uscg.mil] (United States Coast Guard)

Dates are displayed in UTC -9

[Click here to change how often ShareFile sends emails](#)

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**Joseph, Claire E**

---

**From:** Chung, Eugene LT <Eugene.Chung@uscg.mil>  
**Sent:** Monday, March 21, 2016 12:00 PM  
**To:** Joseph, Claire E  
**Subject:** RE: Alaska LNG Project Follow-on Waterway Suitability Assessment Report

Thanks Claire, this is to confirm receipt. I would appreciate it if you could provide us 1 paper copy.

Sincerely,

LT Eugene Chung  
US Coast Guard  
Sector Anchorage  
Waterways Management Chief  
Unit Training Officer  
907-428-4189 (Desk)  
907-428-4114 (Fax)

-----Original Message-----

From: Joseph, Claire E [<mailto:claire.e.joseph@exxonmobil.com>]  
Sent: Friday, March 18, 2016 12:35 PM  
To: Cintron, Hector L CDR; Chung, Eugene LT  
Cc: [jennifer.lee@nrg-llc.com](mailto:jennifer.lee@nrg-llc.com); James Martin; Davis, Robert L MST1; Kominas, Charlie; Medrano, Ruben; Wuestenfeld, Karen /SEC; Maguire, Dennis /C; RAUN, JEFF  
Subject: [Non-DoD Source] Alaska LNG Project Follow-on Waterway Suitability Assessment Report

CDR Cintron, LT Chung -

We are pleased to submit the final Follow-on Waterway Suitability Assessment Report for the Alaska LNG Project to support the Captain's evaluation of the proposed Project and issuance of a Letter of Recommendation to the Federal Energy Regulatory Commission as to the suitability of the waterway for LNG carrier marine traffic.

The password-protected report will be separately transmitted to you. Please let me know if you would like us to provide a paper copy (or copies).

Thank you very much for your time and assistance and that of your team throughout the WSA process.

Regards,

Claire Joseph

Alaska LNG Project

Office: +1 832 625 6294

Cell: +1 832 920 4686

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commander  
United States Coast Guard  
Sector Anchorage

PO Box 5800  
JBER, AK 99505-0800  
Staff Symbol: s  
Phone: (907) 428-4144  
FAX: (907) 428-4138

16611  
June 23, 2016

Alaska LNG Project  
Attn: Charlie Kominas  
Safety, Security, Health and Environmental Manager  
3201 C Street  
Anchorage, AK 99503

Dear Mr. Kominas,

1. Your December 3, 2015 request to use the cryogenic pipe-in-pipe installation as an alternative to conventional containment for your Alaska LNG facility in Nikiski, Alaska has been approved, contingent on the following stipulations:
  - (a) Construction of the pipeline and arrangements shall be designed, fabricated, examined, and tested in accordance with ASME B 31.3 as per NFPA 59A (2013) Section 9.11 Cryogenic Pipe-in-Pipe Systems or other alternatives incorporated by reference in 33 CFR Part 127.
  - (b) Once construction of the pipeline and arrangements have been completed and inspection levels have been specified, my Facilities Division must verify the satisfactory installation and tests of the arrangement.
  - (c) The Marine Transportation-Related Facility shall demonstrate a satisfactory means to prevent corrosion either through corrosion protection and/or detection.
  - (d) The Marine Transportation-Related Facility shall demonstrate a satisfactory means to minimize thermal conductance and heat loss in the annular space and inner pipe support system. In addition, provisions shall be provided for temperature monitoring.
  - (e) The Marine Transportation-Related Facility shall conduct annual transfer pipeline tests as required by 33 CFR §156.170 and maintain proper records.
  - (f) If the Marine Transportation-Related Facility conducts a pneumatic test, an approval letter from the Coast Guard Captain of the Port for alternative testing must be maintained by the facility.
  - (g) Satisfactory tests of the emergency shutdown valves must be witnessed by my staff.
  - (h) The Marine Transportation-Related Facility is situated in a way that poses no risk of impacting public and commercial water supply intakes if a spill were to occur from any transfer piping or storage tank.

16611

June 23, 2016

- (i) The topography surrounding the Marine Transportation-Related portion of the facility is such that a spill of an average most probable discharge would have minimal potential impact to navigable waters.
  - (j) The Marine Transportation-Related Facility does not conduct secondary marine transfers.
2. Please keep a copy of this letter with your facility records. Failure to comply with any of the stipulations listed in this letter will invalidate the alternative containment approval and will require the facility to comply with additional measures. If you have any questions concerning this letter please contact the Sector Anchorage Waterways Management Division at (907) 428-4189.

Sincerely,

P. ALBERTSON  
Captain, U.S. Coast Guard  
Captain of the Port, Western Alaska



16611

August 17, 2016

DIRECTOR OF GAS ENVIRONMENT AND ENGINEERING, PJ 11  
FEDERAL ENERGY REGULATORY COMMISSION (FERC)  
888 1ST ST NE  
WASHINGTON, DC 20426-0002

Dear Sir or Madam:

1. In response to the Alaska LNG Project (Project) Letter of Intent (LOI) dated May 15, 2014, this Letter of Recommendation (LOR) is issued pursuant to 33 CFR §127.009 and Interagency Agreement (2004) to assist FERC in determining whether the Project should be authorized.
2. The Project proposes to operate the Alaska LNG facility in Nikiski, Alaska, where liquefied natural gas (LNG) is to be transferred in bulk to arriving vessels.<sup>1</sup> The Project expands an existing LNG export terminal. Based on a comprehensive review of marine safety and security issues in coordination with port partners, I recommend Cook Inlet be considered suitable for accommodating the type and frequency of LNG marine traffic associated with the Project.
3. The Coast Guard reviewed the LOI and associated Waterway Suitability Assessment (WSA). On April 11, 2016 we completed our review of the Follow-on WSA submitted by AcuTech Consulting Group March 18, 2016. We did this in accordance with U.S. Coast Guard Navigation and Vessel Inspection Circular (NVIC) 01-2011. We focused on navigation safety and maritime security with respect to LNG vessels transiting Cook Inlet. This included an assessment of risks posed by LNG transits and validation of risk management strategies in the WSA. We consulted a variety of stakeholders including the governing Area Maritime Security Committee, Cook Inlet Harbor Safety Committee, Cook Inlet Regional Citizens Advisory Council, and local emergency response groups.
4. The enclosed LOR Analysis contains a detailed summary of the WSA review process. It documents assumptions made and details potential vulnerabilities and operational safety and security measures analyzed during the review.
5. The LOR Analysis is marked *Sensitive Security Information* and is withheld from distribution.<sup>2</sup> The LOR Analysis identifies navigational safety and maritime security resource gaps that currently exist in, on, and adjacent to the waterway, including the marine transfer area of the proposed facility, and which, to the extent allowable under FERC's existing legal authority, may be addressed in its Commission Order if one is issued. To the extent

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<sup>1</sup> Vessel-to-vessel LNG bunkering operations fall outside the scope of this Letter of Recommendation.

<sup>2</sup> Documents containing SSI may be made available upon certification that the requestor has a need to know and appropriate document handling and non-disclosure protocols have been established.

implementation of specific mitigation measures fall outside the scope of FERC's legal authority, the applicant is expected to examine the feasibility of implementing such measures in consultation with the Coast Guard, state, and local agencies, as applicable.

6. This letter is not an enforceable order, permit, or authorization that allows any party, including the applicant, to operate a facility or a vessel on the affected waterway. Similarly, it does not impose any legally enforceable obligations on any party to undertake any future action, be it on the waterway or at the proposed facility. Further, it neither authorizes nor restricts the transit of properly certificated vessels in Cook Inlet.

7. As with all issues related to waterway safety and security, the Coast Guard may assess each vessel transit on a case-by-case basis to identify what, if any, safety and security measures are necessary to safeguard the public health and welfare, critical marine infrastructure and key resources, the port, marine environment, mariners and vessels. In the event the facility begins operation, LNG vessel transits commence, and matters arise concerning the safety or security of any aspect of the operation, the COTP may issue an order pursuant to the Ports and Waterways Safety Act of 1972, 33 U.S.C. §1221, *et seq.*, as amended by the Port and Tanker Safety Act of 1978, to safeguard maritime safety and security.

8. Please direct any questions you may have to Commander Hector Cintron of my staff. He may be reached at 907-428-4149, or by email: [Hector.L.Cintron@uscg.mil](mailto:Hector.L.Cintron@uscg.mil)

Sincerely,

P. ALBERTSON  
Captain, U.S. Coast Guard  
Captain of the Port, Western Alaska

Enclosure

Copy: Commander, Seventeenth Coast Guard District (dp,dl)  
Commander, Coast Guard Pacific Area (PAC-5)  
Commandant, U.S. Coast Guard (CG-5, CG-522, CG-532, CG-544, CG-741)  
Alaska LNG Project



**Alaska LNG Project**

3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-00-000003-001

13 October 2016

Captain of the Port  
U.S. Coast Guard Sector Anchorage  
G-Wing, Building 49000  
Army Guard Rd.  
JBER, AK 99505

**Re: Clarification on conditions of approval to use Pipe-in-Pipe in the Marine Transfer Area**

Dear Sir:

Thank you for the letter dated 23 June 2016 approving pipe-in-pipe installation as an alternative to conventional containment at the proposed Alaska LNG liquefaction facility in Nikiski, Alaska. On 16 August 2016, Alaska LNG project team members held a teleconference with your staff seeking clarification on the conditions of approval. Please accept this letter proposing the clarifications as discussed with your staff.

1. Item 1(e) in the US Coast Guard letter dated 23 June 2016 is not applicable to the subject approval for pipe-in-pipe installation at the proposed liquefaction facility. The appropriate citation is 33 CFR Part 127.407.

Discussion: 33 CFR Part 156.170 is applicable to oil and hazardous materials. Per 33 CFR Part 154.105, "hazardous material" does not include liquefied gases. As liquefied natural gas does not meet the applicable definitions, the reference to 33 CFR Part 156.170 is not applicable and should be removed as a condition to pipe-in-pipe approval.

2. Item 1(f) in the US Coast Guard letter dated 23 June 2016 is not applicable to the subject approval; pressure testing will be in accordance with 33 CFR Part 127.407.

Discussion: 33 CFR Part 127.407 outlines the testing requirements applicable to the proposed pipe-in-pipe installation and is the appropriate citation for testing conditions.

3. Coast Guard regulations reference the term Maximum Allowable Working Pressure (MAWP). USCG Sector Anchorage staff requested a comparison between MAWP and the Project terminology of Design Pressure.
  - a. Design Pressure is commonly used (ref. ANSI B31.3) and is the pressure selected by the vessel/equipment designer that is "not less than the pressure at the most severe condition of coincident internal or external pressure and temperature (minimum or maximum) expected during service". The design pressure serves as the basis for the initial selection and thickness of materials required in the fabrication of the vessel/equipment item. It can be equal to, but will never exceed the MAWP.

13 Oct 2016

- b. MAWP for a vessel is the maximum permissible pressure at the top of a vessel in its normal operating position at a specific temperature, usually the design temperature, adjusted for any difference in static head that may exist between the part considered an the top of the vessel. This pressure is based on calculation for every element and component of the vessel using the nominal thickness exclusive of corrosion allowance. The MAWP for the vessel will be governed by the MAWP of the weakest parts.
- c. Procurement and fabrication of all AKLNG equipment items will be based on the required design pressure. After fabrication the MAWP, based on actual material utilized, and certified by the manufacturer/fabricator will equal or exceed the design pressure.

We appreciate and thank you for your cooperation on these clarifications. If you have any questions about the proposed changes to the conditions of approval for the use of pipe-in-pipe, please contact Jeff Raun at 907-929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,



Philip Brinkmann  
Alaska LNG Project  
Licensing Manager  
For and on behalf of ExxonMobil Alaska LNG LLC (EMALL)

Enclosure:  
USCG Approval Letter Dated 23 June 2016

cc:  
LTJG David Parker  
CDR Hector Cintron  
LCDR Michael Franklin



13 Oct 2016

**Enclosure: USCG Approval Letter Dated 23 June 2016**



16611

June 23, 2016

Alaska LNG Project  
Attn: Charlie Kominas  
Safety, Security, Health and Environmental Manager  
3201 C Street  
Anchorage, AK 99503

Dear Mr. Kominas,

1. Your December 3, 2015 request to use the cryogenic pipe-in-pipe installation as an alternative to conventional containment for your Alaska LNG facility in Nikiski, Alaska has been approved, contingent on the following stipulations:
  - (a) Construction of the pipeline and arrangements shall be designed, fabricated, examined, and tested in accordance with ASME B 31.3 as per NFPA 59A (2013) Section 9.11 Cryogenic Pipe-in-Pipe Systems or other alternatives incorporated by reference in 33 CFR Part 127.
  - (b) Once construction of the pipeline and arrangements have been completed and inspection levels have been specified, my Facilities Division must verify the satisfactory installation and tests of the arrangement.
  - (c) The Marine Transportation-Related Facility shall demonstrate a satisfactory means to prevent corrosion either through corrosion protection and/or detection.
  - (d) The Marine Transportation-Related Facility shall demonstrate a satisfactory means to minimize thermal conductance and heat loss in the annular space and inner pipe support system. In addition, provisions shall be provided for temperature monitoring.
  - (e) The Marine Transportation-Related Facility shall conduct annual transfer pipeline tests as required by 33 CFR §156.170 and maintain proper records.
  - (f) If the Marine Transportation-Related Facility conducts a pneumatic test, an approval letter from the Coast Guard Captain of the Port for alternative testing must be maintained by the facility.
  - (g) Satisfactory tests of the emergency shutdown valves must be witnessed by my staff.
  - (h) The Marine Transportation-Related Facility is situated in a way that poses no risk of impacting public and commercial water supply intakes if a spill were to occur from any transfer piping or storage tank.

16611  
June 23, 2016

- (i) The topography surrounding the Marine Transportation-Related portion of the facility is such that a spill of an average most probable discharge would have minimal potential impact to navigable waters.
  - (j) The Marine Transportation-Related Facility does not conduct secondary marine transfers.
2. Please keep a copy of this letter with your facility records. Failure to comply with any of the stipulations listed in this letter will invalidate the alternative containment approval and will require the facility to comply with additional measures. If you have any questions concerning this letter please contact the Sector Anchorage Waterways Management Division at (907) 428-4189.

Sincerely,

P. ALBERTSON  
Captain, U.S. Coast Guard  
Captain of the Port, Western Alaska

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commander  
United States Coast Guard  
Sector Anchorage

PO Box 5800  
JBER, AK 99505-0800  
Staff Symbol: s  
Phone: (907) 428-4144  
Fax: (907) 428-4218

16611  
February 11, 2017

Director of Gas Environment and Engineering, PJ 11  
Federal Energy Regulatory Commission (FERC)  
888 1ST ST NE  
Washington, DC 20426-0002

Dear Sir or Madam:

1. This letter removes the statement "the Project expands an existing LNG export terminal" originally communicated in my authorization letter 16611 of August 17, 2017. All other portions remain unchanged. This supersedes my August 17, 2016 letter.
2. In response to the Alaska LNG Project (Project) Letter of Intent (LOI) dated May 15, 2014, this Letter of Recommendation (LOR) is issued pursuant to 33 CFR §127.009 and Interagency Agreement (2004) to assist FERC in determining whether the Project should be authorized.
3. The Project proposes to operate a new LNG export terminal for the Alaska LNG facility in Nikiski, Alaska, where liquefied natural gas (LNG) is to be transferred in bulk to arriving vessels.<sup>1</sup> Based on a comprehensive review of marine safety and security issues in coordination with port partners, I recommend Cook Inlet be considered suitable for accommodating the type and frequency of LNG marine traffic associated with the Project.
4. The Coast Guard reviewed the LOI and associated Waterway Suitability Assessment (WSA). On April 11, 2016 we completed our review of the Follow-on WSA submitted by AcuTech Consulting Group March 18, 2016. We did this in accordance with U.S. Coast Guard Navigation and Vessel Inspection Circular (NVIC) 01-2011. We focused on navigation safety and maritime security with respect to LNG vessels transiting Cook Inlet. This included an assessment of risks posed by LNG transits and validation of risk management strategies in the WSA. We consulted a variety of stakeholders including the governing Area Maritime Security Committee, Cook Inlet Harbor Safety Committee, Cook Inlet Regional Citizens Advisory Council, and local emergency response groups.
5. The enclosed LOR Analysis contains a detailed summary of the WSA review process. It documents assumptions made and details potential vulnerabilities and operational safety and security measures analyzed during the review.
6. The LOR Analysis is marked *Sensitive Security Information* and is withheld from distribution.<sup>2</sup> The LOR Analysis identifies navigational safety and maritime security resource

<sup>1</sup> Vessel-to-vessel LNG bunkering operations fall outside the scope of this Letter of Recommendation.

<sup>2</sup> Documents containing SSI may be made available upon certification that the requestor has a need to know and

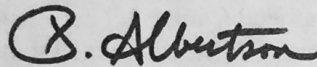
gaps that currently exist in, on, and adjacent to the waterway, including the marine transfer area of the proposed facility, and which, to the extent allowable under FERC's existing legal authority, may be addressed in its Commission Order if one is issued. To the extent implementation of specific mitigation measures fall outside the scope of FERC's legal authority, the applicant is expected to examine the feasibility of implementing such measures in consultation with the Coast Guard, state, and local agencies, as applicable.

7. This letter is not an enforceable order, permit, or authorization that allows any party, including the applicant, to operate a facility or a vessel on the affected waterway. Similarly, it does not impose any legally enforceable obligations on any party to undertake any future action, be it on the waterway or at the proposed facility. Further, it neither authorizes nor restricts the transit of properly certificated vessels in Cook Inlet.

8. As with all issues related to waterway safety and security, the Coast Guard may assess each vessel transit on a case-by-case basis to identify what, if any, safety and security measures are necessary to safeguard the public health and welfare, critical marine infrastructure and key resources, the port, marine environment, mariners and vessels. In the event the facility begins operation, LNG vessel transits commence, and matters arise concerning the safety or security of any aspect of the operation, the COTP may issue an order pursuant to the Ports and Waterways Safety Act of 1972, 33 U.S.C. §1221, *et seq.*, as amended by the Port and Tanker Safety Act of 1978, to safeguard maritime safety and security.

9. Please direct any questions you may have to Commander Hector Cintron of my staff. He may be reached at 907-428-4149, or by email: [Hector.L.Cintron@uscg.mil](mailto:Hector.L.Cintron@uscg.mil).

Sincerely,



P. ALBERTSON  
Captain, U.S. Coast Guard  
Captain of the Port, Western Alaska

Enclosure

Copy: Commander, Seventeenth Coast Guard District (dp, dl)  
Commander, Coast Guard Pacific Area (PAC-5)  
Commandant, U.S. Coast Guard (CG-5, CG-522, CG-532, CG-544, CG-744)  
Alaska LNG Project

U.S. Environmental Protection Agency  
USEPA

---

**From:** Rea, Caryn /SEC  
**Sent:** Wednesday, May 20, 2015 1:10 PM  
**To:** Romero, Mary R POA; Jewel Bennett ([jewel\\_bennett@fws.gov](mailto:jewel_bennett@fws.gov)); [martin.gayle@epa.gov](mailto:martin.gayle@epa.gov)  
**Cc:** Antonakos, Elena A  
**Subject:** Wetland Protocols

Hello everyone

Attached are the wetlands protocols the Alaska LNG is following for mapping wetlands in the proposed project area. We had a good discussion about this a couple of weeks ago; subsequently we received a request from Mary to forward these along to all of you. Please cascade through your organization as appropriate. Prior to my joining the Alaska LNG team in mid-October 2014, the permits staff met with Janet Post to review the protocols – based on input received, the protocols were revised to the version you see in this attachment. If there are any glaring omissions from the protocols that you think might be a problem for us as we move toward development of an ASA, please do let us know.

Otherwise, the team will be moving forward with these protocols this season, to be consistent with prior years.

Best,  
Caryn

Sr. EIS Advisor  
AK LNG Project  
3201 C Street, Suite 505  
Anchorage, AK 99503

907.929.4106 (o)



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAI-PE-SALTR-00-000027-000

July 31 2015

Herman Wong  
Regional Atmospheric Scientist/Modeler  
United States Environmental Protection Agency, Region 10  
1200 Sixth Ave, OEA-140  
Seattle WA 98101

**Re: Alaska LNG air quality modeling approach**

Dear Herman

The Alaska LNG Project plans to construct several stationary sources of air emissions as part of its plan to construct an integrated project with interdependent facilities for the purpose of liquefying natural gas for export and opportunity for in-state delivery. As the lead agency for the National Environmental Policy Act (NEPA) Environmental Impact Statement (EIS) for Alaska LNG, the Federal Energy Regulatory Commission (FERC) has initiated a pre-filing process that precedes the commencement of the EIS process. As part of pre-filing, Alaska LNG is required to submit a series of draft Resource Reports. FERC issued a number of comments to Alaska LNG following its review of the Draft 1 Resource Reports, some of which are required to be addressed before the submittal of the Draft 2 reports. One such comment relates to Resource Report 9 (Air and Noise Quality), as follows.

*"Include results of consultations with the Alaska Department of Environmental Conservation (ADEC) and the U.S. Environmental Protection Agency concerning the availability of ambient monitoring data and that a complete and adequate air quality impact analysis can be accomplished with the available data, or if additional preconstruction ambient air monitoring would be required. If preconstruction monitoring is required, include a rationale for station siting and a schedule for preconstruction air quality and meteorological data collection, approval by the ADEC, and completion of the modeling analyses at the GTP and Liquefaction Facility. Include a contingency plan for any incomplete collection of data in this process (e.g., fill in data gaps with other monitoring datasets). This information is being requested prior to the next draft of resource reports to ensure that the appropriate data are available for analysis during the next round of review."* Excerpt from FERC letter to Alaska LNG; May 15, 2015.

To address the request from FERC, Alaska LNG has prepared a proposed modeling approach, which identifies proposed source data and applicable modeling tools for each stationary source proposed to be constructed as part of the Alaska LNG Project. The approach addresses the modeling and air quality-related analyses that would be required to support review of the project under NEPA.

We are seeking EPA's feedback on the enclosed modeling approach in writing, to be able to provide FERC written evidence of EPA's feedback in response to the above referenced comment.

To assist with a timely response to FERC's request, the Alaska LNG Project requests EPA comments by August 14 2015. We appreciate your assistance with this matter.



Please contact our Environmental Impact Statement Advisor, Norman Scott, at 907-929-4129 or by e-mail at [norm.scott@exxonmobil.com](mailto:norm.scott@exxonmobil.com) if you have any questions.

Sincerely,

  
Karen Wuestenfeld  
EIS Lead

Enclosure(s):  
Memorandum: Modeling Approach

12 August 2015

From: Herman Wong, EPA Region 10

To: Norm Scott, AK LNG

Subj: AK LNG Project Modeling Protocol; Request for Comment

In response to your request, EPA Region 10 is providing comments on the Modeling Approach for Federal Conservation Units, AK LNG Project memorandum dated June 2015 that was attached to an email dated 31 July 2015 and on the AK LNG – EPA Region 10 Air Quality Meeting POWERPOINT presentation provided on 5 August 2015 at our office in Seattle. These comments are intended only as general suggestions to help guide development of the emission calculations, the new and/or modified stationary sources and the non-stationary source modeling analyses, and the cumulative analyses.

Essentially, the proposed project will consist of a new Gas Treatment Plant (GTP) that receives natural gas from the BP Prudhoe Bay Unit (PBU) and the ExxonMobil Point Thomson Unit (PTU) pipelines. From the GTP, the natural gas flows through a 42-inch diameter pipeline (Mainline) 800 miles south to the Liquefied Natural Gas (LNG) facility/terminal at Nikiski in the Cook Inlet. Principal facilities along the Mainline include eight compressor stations, two heater stations, four meter stations, 53 Mainline block valves and off-take interconnection points. Adjacent to the LNG facility will be two loading berths for the LNG.

Below are our comments as it relates to the National Environmental Policy Act (NEPA) ambient air quality impact analysis. Please contact me after your review of the comments if there are concerns.

A. General Comments

1. Region 10 generally defers to the FLMs to address visibility, air quality related values (AQRV) and deposition at Class I and Class II Federal Conservation Units (FCUs). However, EPA has the responsibility to ensure the AK LNG project emissions comply with National Ambient Air Quality Standards (NAAQS) and air quality increments at the FCUs and in ambient air.
2. Region 10 suggests that AK LNG submit a revised modeling protocol to the Federal Land Managers (FLMs) and Region 10 for comment when there are more details and prior to initiation of any modeling analysis.

B. Specific Comments

1. Table 2 - Calculation of Q/D for Proposed Facilities and Federal Conservation Units (where  $D < 300$  km) in the June 2015 Memorandum. Clarification should be obtained from the FLMs regarding cumulative analyses and the use of the screening tool, Q/D.
2. Table 3 - Air Dispersion Modeling for Screened Class I and Sensitive Class II Areas in the June 2015 Memorandum.
  - a. Emissions from GTP along with the PBU and PTU should be included as part of the North Slope analyses.

- b. Region 10 will provide 2009 - 2012 Weather Research and Forecasting (WRF) model solutions to the FLMs for the FCU modeling analyses affected by the North Slope emission sources. Three years of modeling analysis is recommended since the solutions are available.
- c. Region 10 recommends at least one calendar year of WRF solutions during the years 2009 - 2012 for the FCU modeling analyses affected by the Nikiski/Cook Inlet emission sources. WRF has replaced the mesoscale meteorological model, version 5 (MM5).

3. Emission Rate and Source Parameters

Air pollutant emissions during construction and operation should be estimated using the best data available at the time the calculations are conducted. Region 10 suggests taking a conservative approach in calculating emissions; i.e., where uncertainty exists, calculations should not be based on optimistic assumptions which result in potentially underestimated emission rates or concentrations. All assumptions and data sources used in the emission calculations should be provided as attachments to the calculations.

- 4. Although an air permit is not required, emissions for Heater Station 1 should be quantified and shown.
- 5. For compliance demonstration with NAAQS, background air quality data should be representative in accordance with EPA guidance. That is, measurements of sulfur dioxide (SO<sub>2</sub>), oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), ozone (O<sub>3</sub>), particulate matter less than or equal to ten microns (PM<sub>10</sub>), particulate matter less or equal to 2.5 microns (PM<sub>2.5</sub>), and lead (Pb) must meet currentness, monitor location, and data quality requirements.
- 6. The compressor stations are located in remote areas. The NAAQS compliance demonstration for these stationary sources can use the nearest background air quality measurements with adequate justification.
- 7. The formation of O<sub>3</sub> and secondary particulate matter should be addressed. Note that Region 10 can provide speciated PM<sub>2.5</sub> concentrations measured at Deadhorse.
- 8. The hourly measured meteorological data used to predict near field ambient air quality impacts with AERMOD should meet the requirements in EPA's February 2000 onsite meteorology guidance, particularly Table 8.4.
- 9. For Comments B.5 and B.8, there should be an approved Quality Assurance Project Plan (QAPP), independent audit reports and data validation scans available for review.
- 10. Greenhouse gas (GHG) emissions should be quantified and discussed. We recommend the proposed Council of Environmental Quality (CEQ) guidance on addressing GHGs and climate change in NEPA documents:

<https://www.whitehouse.gov/administration/eop/ceq/initiatives/nepa/ghg-guidance>

11. For the Prevention of Significant Deterioration (PSD) increment demonstration, provide a discussion of the affected Air Quality Control Regions and air pollutants, and major and minor source baseline dates (if triggered).
12. An Environmental Justice analysis should be conducted to ensure that "...no group of people bear a disproportionate share of the negative environmental consequences from industrial, governmental and commercial operations or policies."
13. AERMOD Modeling System and AERSCREEN

There should be a section or paragraphs in the modeling protocol that includes the following:

- a. A description of the selected models and options, particularly if they are not defaults. The models include the AERMOD dispersion program, AERMET meteorological data preprocessor, AERMAP terrain preprocessor, and AERSURFACE. AK LNG should contact AK DEC to obtain guidance on the surface characteristics of area in which the stationary source is located.
- b. Tabular summaries of stack parameters, area sources and volume sources as applicable. This includes Universal Transverse Mercator (UTM) coordinates and the datum, and ground level elevation.
- c. If the Plume Rise Model Enhancements (PRIME) downwash algorithm is used to evaluate wake effects, provide a figure(s) that shows all the buildings contributing to downwash and a table listing the building height, width and length and the UTM corner coordinates of each building.
- d. Plot plans that displays the ambient air boundary, north arrow, scale, and location of the emission sources.
- e. Topographic maps with the similar information as in B.13.d.
- f. Maps showing all ship transit routes in and out of the port(s).
- g. Discussion of receptor coordinate system, receptor spacing and a figure(s) that shows the ambient boundary and receptor locations.

c:

Mark Jen, R10 AK Ops  
 Zach Hedgpeth, R10 Seattle  
 Catherine Collins, FWS  
 Tim Allen, FWS  
 Andrea Stacy, NPS  
 John Notar, NPS  
 Alan Schuler, AK DEC



Alaska LNG Project  
10613 W. Sam Houston Pkwy N  
Suite 500  
Houston, TX 77065

Document No.: USAI-PE-SALTR-00-000039-000

November 19, 2015

Herman Wong  
Regional Atmospheric Scientist/Modeler  
United States Environmental Protection Agency, Region 10  
1200 Sixth Ave, OEA-140  
Seattle, WA 98101

**Re: Alaska LNG GTP Offsite Inventory, Ozone and Secondary PM<sub>2.5</sub> Analysis Approaches**

Dear Mr. Wong:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, and ExxonMobil Alaska LNG LLC plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce and opportunities for in-state deliveries of natural gas.

The Federal Energy Regulatory Commission (FERC) has approved the Project's use of FERC's National Environmental Policy Act (NEPA) Pre-filing Review Process. As part of Pre-Filing, the applicant is required to submit a series of draft Resource Reports to inform the eventual Environmental Impact Statement (EIS). Resource Report #9, which is focused on air and noise quality, will include an analysis of project criteria pollutant cumulative impacts (including ozone, and secondary PM<sub>2.5</sub>), among other air quality related evaluations.

FERC expects Project representatives to consult with the U.S. Environmental Protection Agency (USEPA) while developing protocols for these evaluations. To fulfill this expectation, on November 12, 2015, Project representatives and USEPA Region 10 representatives discussed a proposed modeling approach for the following Project aspects:

- The scope of the modeled offsite inventory for the North Slope Gas Treatment Plant (GTP) Alternative Location near-field cumulative impact analysis; and
- The foundation of the Project ozone and secondary PM<sub>2.5</sub> cumulative impact assessment.

Enclosed is a copy of the presentation reviewed with you on November 12<sup>th</sup> which details our approaches for these two issues.

As discussed during the meeting, if the GTP were located at the location depicted in the presentation, no existing source is near enough to warrant including it individually in the near-field cumulative impact analysis. Instead, the Alaskan North Slope sources can be represented in the cumulative impact analysis with a background concentration developed with 3 years of data collected at the BP Exploration (Alaska), Inc. A-Pad Monitoring Station, using a first tier approach<sup>1</sup>.

---

<sup>1</sup> Details regarding the first tier background approach are found on page 17 of the Memorandum titled "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO<sub>2</sub> National Ambient Air Quality Standard, from Tyler Fox, Leader of the Air Quality Modeling Group to Regional Air Division Directors. For a first tier approach, the monitored NO<sub>2</sub> design value, i.e., the 98th-percentile of the annual distribution of daily maximum 1-hour values averaged across the most recent three years of monitored data, should be used irrespective of the meteorological data period used in the dispersion modeling.

The November 12<sup>th</sup> meeting also addressed the Project's proposed ozone and secondary PM<sub>2.5</sub> cumulative impact assessment. There are sufficient measurements on the Alaskan North Slope and in southcentral Alaska and literature available to establish that ozone and secondary particulate concentrations are dominated by long-range transport and biogenic sources and show a lack of sensitivity to regional development. These data indicate there is no need for project- and source-specific modeling analyses. Therefore, Project modeling plans do not include photochemical modeling to support the ozone and secondary particulate assessment and will rely on a qualitative assessment. The qualitative assessment will focus on the following:

- Quantifying project precursor emissions and comparing them to the existing regional loading;
- Quantifying existing ambient measurements and trends over time; and
- Describing conditions impacting existing ambient measurements and suppressing ozone and secondary PM<sub>2.5</sub> formation.

I respectfully request your written concurrence prior to December 4, 2015, in order to provide FERC evidence of the Project's consultation and alignment with USEPA regarding the approaches discussed herein.

If you have any questions regarding this letter or the attached presentation, please contact Jim Pfeiffer, Alaska LNG Sr. Air Permit Advisor, at (832) 624-7091 (or james.pfeiffer@exxonmobil.com).

Sincerely,



Charlie Kominas  
Alaska LNG Safety, Security, Health and Environment Manager  
ExxonMobil Development Company  
For and on behalf of ExxonMobil Alaska LNG LLC

Enclosure:

Presentation: *USEPA Region 10 Air Quality Assessment Approach Evaluation Offsite Source and O<sub>3</sub> and PM<sub>2.5</sub> Considerations*

cc: James Renovatio- ADEC  
Alan Schuler- ADEC  
Tom Damiana- AECOM



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Document No.: USAL-PE-SALTR-90-000003-000

July 18, 2016

Chris Meade  
222 W. 7<sup>th</sup> Ave. #19  
Anchorage, AK 99513-7588

**Re: Letter to EPA - Review of Nikiski Capital Dredge Material Characterization SAP**

Dear Mr. Meade:

ExxonMobil Alaska LNG LLC (EMALL) on behalf of the Alaska LNG Project (Project) is requesting your review of the revised Sampling and Analysis Plan (SAP) for the Alaska LNG Project sediment sampling program at Nikiski to support future evaluation and permitting of potential capital (construction) dredging in Cook Inlet.

We would greatly appreciate feedback on the SAP by July 29<sup>th</sup> if possible so that we can incorporate any modifications and plan potential future work programs.

We appreciate and thank you for your cooperation. If you have any questions about the enclosed plan, please contact Jeff Raun at 907-929-4105 or [jeff.raun@exxonmobil.com](mailto:jeff.raun@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink that reads "PE Brinkmann".

Philip Brinkmann  
Alaska LNG Project  
Licensing Manager  
For and on behalf of ExxonMobil Alaska LNG LLC (EMALL)

Enclosure:  
Capital Dredge Material Characterization Sampling Analysis Plan (Doc No. USAL-CH-JPZZZ-90-000008-000)

cc:  
Sandy Gibson – USACE  
Mary Romero – USACE  
James Rypkema – ADEC  
Jennifer Murrell - ADNR

U.S. Fish and Wildlife Service  
USFWS





**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: LT-AKE-PT-14-0103-001

October 27, 2014

Sarah Conn, Supervisor  
Fairbanks Fish and Wildlife Field Office  
U. S. Fish and Wildlife Service  
101 12<sup>th</sup> Ave., Room 110  
Fairbanks, AK 99701  
[Sarah.Conn@fws.gov](mailto:Sarah.Conn@fws.gov)

RE: Alaska LNG Project  
FERC Docket No.: PF14-21-000

Dear Ms. Conn:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Project.

In accordance with provisions of the NEPA (83 Stat. 852; 42 U.S.C. 4321 *et seq.*), federal laws governing the protection of Federally listed endangered and threatened species (listed species) including the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d), the Migratory Bird Treaty Act (40 Stat. 755, as amended; 16 U.S.C. 703 *et seq.*) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) apply to the review and approval of this Project. This letter is a request to initiate informal consultation with the U.S. Fish and Wildlife Service ("FWS") for the proposed Project pursuant to Section 7(a)(2) of the ESA. The Project Participants are the Commission's designated non-Federal representative under 18 C.F.R. Section 380.13(b)(1) for purposes of informal consultation with the FWS under the ESA.

Project Participants are in the early stages of planning for the proposed Project. Project Participants have established a preliminary study corridor for the Mainline and study areas for the facilities of the Project. A route within the study corridor will be finalized with stakeholder input during the pre-filing process. A general project overview map depicting the study areas/corridor for the Project is attached for your review, along with GIS shapefiles.

On behalf of the Project Participants, this letter requests any information (including but not limited to a list of species) you may have regarding federally threatened or endangered species or critical habitat that may occur in the vicinity of the Alaska LNG Project. Protected species information provided by the FWS will be included in an applicant-prepared Biological Assessment (BA) that will be included as an appendix to Resource Report No. 3 of the Environmental Report (ER) that would form part of our application. It is expected that this BA will be developed over the next two draft submittals of the ER to result in a complete BA for the final FERC application. FERC and FWS can then properly consider any effects on known listed species and propose avoidance or mitigation measures during their review. Concurrent consultation with the National Marine Fisheries Service will occur.

We look forward to your participation in the evaluation of this project. If you have any questions, please contact me at 832-624-2816 or by email at [Charlie.kominas@exxonmobil.com](mailto:Charlie.kominas@exxonmobil.com).

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Jim Martin, FERC  
Greg Balogh, Supervisor, Anchorage National Marine Fisheries Service Office  
Doug Limpinsel, Marine Biologist, Anchorage National Marine Fisheries Service Office  
Socheata Lor, Supervisor Anchorage US Fish and Wildlife Service Office



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Ref No.: LT-AKE-PT-14-0103-002

October 27, 2014

Socheata Lor, Supervisor  
Anchorage Fish and Wildlife Field Office  
U.S. Fish and Wildlife Service  
605 West 4<sup>th</sup> Avenue, Rm G-61  
Anchorage, AK 99501  
[Socheata\\_Lor@fws.gov](mailto:Socheata_Lor@fws.gov)

RE: Alaska LNG Project  
FERC Docket No.: PF14-21-000

Dear Ms. Lor:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (together, Project Participants) have initiated the Federal Energy Regulatory Commission's ("FERC" or "Commission") pre-filing review process for the Alaska LNG Project (Project) under 18 C.F.R. Section 157.21 of the FERC regulations. On September 12, 2014, the Director of the Office of Energy Projects ("OEP") issued a letter order granting the Project Participants' pre-filing request and assigning the Project FERC Docket No. PF14-21-000. Project Participants plan to prepare and file an application for authorization under Section 3 of the Natural Gas Act to site, construct and operate the Project.

In accordance with provisions of the NEPA (83 Stat. 852; 42 U.S.C. 4321 *et seq.*), federal laws governing the protection of Federally listed endangered and threatened species (listed species) including the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d), the Migratory Bird Treaty Act (40 Stat. 755, as amended; 16 U.S.C. 703 *et seq.*) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) apply to the review and approval of this Project. This letter is a request to initiate informal consultation with the U.S. Fish and Wildlife Service ("FWS") for the proposed Project pursuant to Section 7(a)(2) of the ESA. The Project Participants are the Commission's designated non-Federal representative under 18 C.F.R. Section 380.13(b)(1) for purposes of informal consultation with the FWS under the ESA.

Project Participants are in the early stages of planning for the proposed Project. Project Participants have established a preliminary study corridor for the Mainline and study areas for the facilities of the Project. A route within the study corridor will be finalized with stakeholder input during the pre-filing process. A general project overview map depicting the study areas/corridor for the Project is attached for your review, along with GIS shapefiles.

On behalf of the Project Participants, this letter requests any information (including but not limited to a list of species) you may have regarding federally threatened or endangered species or critical habitat that may occur in the vicinity of the Alaska LNG Project. Protected species information provided by the FWS will be included in an applicant-prepared Biological Assessment (BA) that will be included as an appendix to Resource Report No. 3 of the Environmental Report (ER) that would form part of our application. It is expected that this BA will be developed over the next two draft submittals of the ER to result in a complete BA for the final FERC application. FERC and FWS can then properly consider any effects on known listed species and propose avoidance or mitigation measures during their review. Concurrent consultation with National Marine Fisheries Service, Anchorage, Alaska Office will occur.

We look forward to your participation in the evaluation of this project. If you have any questions, please contact me at 832-624-2816 or by email at [Charlie.kominas@exxonmobil.com](mailto:Charlie.kominas@exxonmobil.com).

Sincerely,



Charlie Kominas

On Behalf of Alaska LNG Project Participants

cc: Jim Martin, FERC

Greg Balogh, Supervisor, Anchorage National Marine Fisheries Service Office

Doug Limpinsel, Marine Biologist, Anchorage National Marine Fisheries Service Office

Sara Conn, Supervisor, Fairbanks U.S. Fish and Wildlife Service Office

---

**From:** Muir, Jordan <jordan\_muir@fws.gov>  
**Sent:** Wednesday, April 22, 2015 1:57 PM  
**To:** Rea, Caryn /SEC  
**Cc:** Jewel Bennett (jewel\_bennett@fws.gov)  
**Subject:** Re: Any comments on our Raptor protocols?

**Categories:** External Sender

Hi Caryn,

No worries! I appreciate the opportunity to comment and your patience as you've waited for feedback. I am comfortable with with Alaska LNG's initial survey protocols and don't have any significant changes to recommend. It is very evident that you have been working closely with Jewel to develop appropriate methodologies and the results are appreciated! I look forward to seeing the survey results and working with you further.

Thanks,  
Jordan

On Wed, Apr 22, 2015 at 9:39 AM, Rea, Caryn /SEC <[caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com)> wrote:

Hi Jordan

I'm keeping my Team at bay until I hear whether you are comfortable in the Alaska LNG's protocols for raptor surveys. We are scheduled to depart this Friday but if you have concerns about our approach, I can delay the Team. I understand from Jewel that you are one busy guy so I hope that I'm not coming across as pushy here. Its just that I value your input and want to make sure we are going to satisfy your permitting requirements.

Thx

caryn

Sr. EIS Advisor

AK LNG Project

3201 C Street, Suite 505

Anchorage, AK 99503

---

**From:** Rea, Caryn /SEC  
**Sent:** Wednesday, May 20, 2015 1:10 PM  
**To:** Romero, Mary R POA; Jewel Bennett ([jewel\\_bennett@fws.gov](mailto:jewel_bennett@fws.gov)); [martin.gayle@epa.gov](mailto:martin.gayle@epa.gov)  
**Cc:** Antonakos, Elena A  
**Subject:** Wetland Protocols

Hello everyone

Attached are the wetlands protocols the Alaska LNG is following for mapping wetlands in the proposed project area. We had a good discussion about this a couple of weeks ago; subsequently we received a request from Mary to forward these along to all of you. Please cascade through your organization as appropriate. Prior to my joining the Alaska LNG team in mid-October 2014, the permits staff met with Janet Post to review the protocols – based on input received, the protocols were revised to the version you see in this attachment. If there are any glaring omissions from the protocols that you think might be a problem for us as we move toward development of an ASA, please do let us know.

Otherwise, the team will be moving forward with these protocols this season, to be consistent with prior years.

Best,  
Caryn

Sr. EIS Advisor  
AK LNG Project  
3201 C Street, Suite 505  
Anchorage, AK 99503

907.929.4106 (o)



**Alaska LNG Project**  
3201 C Street  
Suite 506  
Anchorage, AK 99503

Document No.: USAI-PE-SALTR-00-000020-000  
Confidential

June 25 2015

Jewel Bennett, Branch Chief  
Conservation Planning Assistance  
Fairbanks Fish and Wildlife Field Office  
U.S. Fish and Wildlife Service  
101 12th Ave., Room 110  
Fairbanks, AK 99701

**Re: Alaska LNG air quality modeling approach for Federal Conservation Units**

Dear Jewel

The Alaska LNG Project plans to construct several stationary sources of air emissions as part of its plan to construct an integrated project with interdependent facilities for the purpose of liquefying natural gas for export and opportunity for in-state delivery. This letter and supporting documentation, was developed in response to a meeting between the Alaska LNG Project team, the Federal Energy Regulatory Commission (FERC), Federal Land Managers (FLM), and the Alaska Department of Environmental Conservation on April 21, 2015.

The enclosed memorandum and supporting information, outlines Alaska LNG's proposed air dispersion modeling approach for stationary sources proposed to be constructed as part of the Alaska LNG Project, including the Gas Treatment Plant (GTP) on the North Slope, compressor stations along the proposed pipeline, and the Liquefaction Facility along Cook Inlet. The approach addresses the modeling and air quality-related analyses that would be required to support the review of the project under the federal National Environmental Policy Act (NEPA). This approach does not address air quality permitting required by agencies that implement the Clean Air Act, although the analyses that are prepared in support of those applications also would be used to support the NEPA process. In evaluating impacts from proposed project sources, this modeling approach considers Federal Conservation Units (Class I and sensitive Class II areas) as nominated by the National Park Service and U.S. Fish and Wildlife Service. The U.S. Bureau of Land Management chose not to nominate any Federal Conservation Units as sensitive Class II areas.

Since this modeling approach will serve as the basis of the air quality impact assessment to be provided in Resource Report 9 as part of the FERC application, the Alaska LNG Project requests agency comments by July 15, 2015.

Please contact our Environmental Impact Statement Advisor, Norman Scott, at 907-929-4129 or by e-mail at [norm.scott@exxonmobil.com](mailto:norm.scott@exxonmobil.com) if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Karen Wuestenfeld".

Karen Wuestenfeld  
EIS Lead



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000025-000

July 29, 2015

Jewell Bennett, Branch Chief  
Conservation Planning Assistance Branch  
USFWS Fisheries and Wildlife Field Office  
101 12<sup>th</sup> Ave., Room 110  
Fairbanks, AK 99701-6237

**Re: Visual/Aesthetics Study Work Plan**

Dear Ms. Bennett:

The Alaska Gasline Development Corporation, BP Alaska LNG LLC, ConocoPhillips Alaska LNG Company, ExxonMobil Alaska LNG LLC, and TransCanada Alaska Midstream LP (Applicants) plan to construct one integrated liquefied natural gas (LNG) Project (Project) with interdependent facilities for the purpose of liquefying supplies of natural gas from Alaska, in particular from the Point Thomson Unit (PTU) and Prudhoe Bay Unit (PBU) production fields on the Alaska North Slope (North Slope), for export in foreign commerce. Proposed Project facilities include a Liquefaction Facility on the eastern shore of Cook Inlet in the Nikiski area of the Kenai Peninsula, which will be supplied by an approximately 800-mile, large diameter natural gas pipeline (Mainline) from the North Slope. The Liquefaction Facility is comprised of an LNG Plant and marine terminal.

Attached is our 2015 study plan to conduct surveys that identify visually sensitive resources that may be impacted by the construction and operation of the Alaska LNG project. The goal of this study is to describe existing visual conditions in the Project Planning Area in support of the Federal Energy Research Commission (FERC) application and subsequent Bureau of Land Management (BLM) and State Pipeline Coordinator's Office (SPCO) permits. In addition to identifying visual viewsheds, the study will address those areas of high recreational use that could be sensitive to changes from construction and operation.



We are available to walk through the plan components with the appropriate U.S. Fish and Wildlife Service Refuge team at your earliest convenience. If you have any questions or information requests, please contact Ms. Caryn Rea at 907.929.4106 or [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com).

Sincerely,



Karen Wuestenfeld  
Alaska LNG Project  
EIS Lead

For and on behalf of ExxonMobil LNG, LLC

Enclosure

cc: Jim Martin/FERC (no attachment)  
Project Files



**Alaska LNG Project**  
3201 C Street, Suite 506  
Anchorage, AK 99503

Ref No.: USAI-PE-SALTR-00-000028-000

August 10, 2015

Mr. Jordan Muir, Raptor/Permits Section Lead  
US Fish and Wildlife Service  
Migratory Bird Permit Office, MS-201  
1011 East Tudor Road  
Anchorage, AK 99503

**Re: Bald Eagle Nest Monitoring in Nikiski Alaska  
Geotechnical & Geophysical Program**

Dear Mr. Muir:

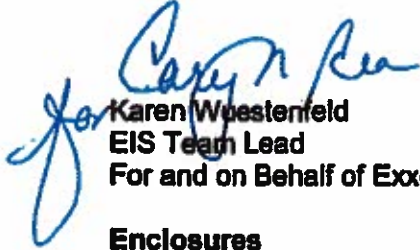
The Alaska LNG Project (Project) conducted monitoring of an active bald eagle nest identified during an aerial nest survey effort between Nikiski and Livengood Alaska on April 24, 2015. The nest location was within an area proposed for shallow seismic activity in support of the Project during May through September, 2015. Information on the nest location and proposed geotechnical/geophysical (G&G) activities was provided to the U.S. Fish and Wildlife Service (FWS) by Ms. Caryn Rea on April 30, 2015. Following discussions with you, a monitoring protocol was developed to guide the observation and collection of data on eagle behavior during the execution of shallow seismic and related activities (surveying, vegetation clearing) within 330 feet of the nest. Due to the developed nature of land parcels surrounding the nest, it was agreed that activity could proceed within a 330-foot buffer zone established by the FWS for nest protection with a dedicated monitor accompanying the field crews.

Monitoring was conducted during pedestrian surveys, vegetation clearing and seismic surveys as well as after the clearing and seismic activities. No adverse or startled behaviors were noted during the activities and one eaglet was observed in the nest before, during and after the seismic surveys.

Attached is a summary report on the behavioral observations during the field project. We have also attached a copy of the Raptor Protocols reviewed with FWS on April 6, 2015 for your files.

We appreciate the opportunity to work with the FWS and encourage you to contact Ms. Caryn Rea at [caryn.rea@exxonmobil.com](mailto:caryn.rea@exxonmobil.com) with any questions on the attached memorandum.

Sincerely,



Karen Woestenfeld  
EIS Team Lead  
For and on Behalf of ExxonMobil LNG, LLC

**Enclosures**

cc: Jewel Bennett, USFWS  
Jennifer Spegon, USFWS  
Jeff Raun, Alaska LNG  
Project files

U.S. Geological Survey  
USGS

USGS 031817.txt

From: Reeves, Howard <hwreeves@usgs.gov>  
Sent: Thursday, March 09, 2017 3:40 PM  
To: Michelle Erickson; Callegary, James  
Subject: Re: Alaska Glacial Aquifer System Groundwater

Follow Up Flag: Follow up  
Flag Status: Flagged

Michelle -

USGS did recently publish a report that used water-well record databases from states to estimate aquifer thickness and other properties. There were too few wells in Alaska to make maps but I think the report may include some discussion of the data available:

<https://pubs.er.usgs.gov/publication/sir20155105>

Howard W. Reeves  
USGS Michigan-Ohio Water Science Center  
6520 Mercantile Way, Suite 5  
Lansing, MI 48911-5991  
517-887-8914  
517-887-8937 (fax)  
hwreeves@usgs.gov

I have great faith in a seed. Convince me that you have a seed there, and I am prepared to expect wonders. --- Henry David Thoreau

On Thu, Mar 9, 2017 at 3:38 PM, Reeves, Howard <hwreeves@usgs.gov> wrote:  
Thanks for your interest with the study. The most relevant publication for Alaska is the overview article that James Callegary led a few years back:

\* Callegary, J. B., Kikuchi, C. P., Koch, J. C., Lilly, M. R., and Leake, S. A., 2013, Review: Groundwater in Alaska (USA): Hydrogeology Journal, doi: 10.1007/s10040-012-0940-5.  
I will make sure that I send you an email when additional reports are released.

Howard W. Reeves  
USGS Michigan-Ohio Water Science Center  
6520 Mercantile Way, Suite 5  
Lansing, MI 48911-5991  
517-887-8914  
517-887-8937 (fax)  
hwreeves@usgs.gov

I have great faith in a seed. Convince me that you have a seed there, and I am prepared to expect wonders. --- Henry David Thoreau

On Thu, Mar 2, 2017 at 5:48 PM, Michelle Erickson <Michelle.Erickson@exp.com> wrote:  
Hi Mr. Reeves,

I am contacting you about the Glacial Aquifer System Availability Study. I was wondering when the final

USGS 031817.txt

publication will be available, especially any data for Alaska's Glacier Aquifer?  
Also, would there be a  
mailing list I could be added to for updates and information pertaining towards your  
study? I appreciate  
your assistance with this inquiry.

Thanks,  
Michelle

Michelle Erickson  
Environmental Specialist  
exp Energy Services Inc.  
t: 907.868.1185 x 4130 | m: 907.244.4586 | e: michelle.erickson@exp.com  
3800 Centerpoint Dr, Suite 200  
Anchorage, AK 99503  
US

exp.com | legal disclaimer

keep it green, read from the screen

## Joint House and Senate Resources Committee



**Alaska LNG Project**

10613 West Sam Houston Parkway North  
Suite 500  
Houston, TX 77064

Document No.: USAI-PT-BALTR-00-000010-000

September 28, 2016

Senate Resources Committee Chair Cathy Giessel  
House Resources Committee Co-Chair Benjamin Nageak  
House Resources Committee Co-Chair David Talerico

Dear Joint Resource Committee Chairs:

Thank you for the opportunity to provide an Alaska LNG Project update to the Alaskan Legislature's Joint Resources Committee on August 24, 2016. As a follow-up to the meeting, I would like to inform you that the Alaska LNG Project has completed two additional major milestones since we last met.

On August 30, ExxonMobil, as Lead Party, provided the Pre-FEED deliverables to the Pre-FEED JVA Parties (AGDC, BP, ConocoPhillips, and ExxonMobil). The Pre-FEED work created an updated design basis, project execution plan, technology plan, commissioning and decommissioning plans, cost estimate, project schedule, risk analysis and management plan, safety, regulatory and socioeconomic plans and contracting and procurement plans (77 documents, 4,000 pages).

On September 14, the remaining draft Resource Reports were provided to FERC, adding over 3,000 pages to the docket. FERC and the other cooperating agencies are reviewing these drafts and will provide questions and comments that can be used to develop the final Resource Reports.

The Pre-FEED deliverables and FERC Resource Reports, combined with the export authorizations secured last year, provide the foundation for a potential Alaska gas commercialization project. This success is the result of the excellent work by 130 members of the Project Management Team and hundreds of people from dozens of third-party contractors. This work cost about \$500 million and the team performed to the highest safety, security, health, and environmental performance standards.

Plans are in place to wrap-up the Pre-FEED phase, demobilize the Project Management Team, close out the Pre-FEED contracts, and hand off future project efforts to AGDC by year end.

As Project Manager, it has been a privilege to keep you apprised on the progress our team has made on behalf of AGDC, BP, ConocoPhillips, and ExxonMobil.

Sincerely,

A handwritten signature in blue ink that reads "Steve Butt".

Steve D. Butt  
Alaska LNG Senior Project Manager

c: Senate President Kevin Meyer  
Speaker of the House Mike Chenault  
Commissioner Andy Mack, Department of Natural Resources  
Commissioner Randy Hoffbeck, Department of Revenue  
Mr. Frank Richards, Alaska Gasline Development Corporation  
Mr. Dave Van Tuyl, BP Exploration Alaska Inc.  
Mr. Dan Clark, ConocoPhillips Alaska, Inc.



ALASKA LNG PROJECT	DOCKET NO. CP17-____-000 RESOURCE REPORT NO. 1 APPENDIX D – SUMMARY OF PUBLIC, AGENCY, AND STAKEHOLDER ENGAGEMENT AND CORRESPONDENCE	Doc No: USAI-PE-SRREG-00- 000001-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	

## ATTACHMENT D.2 AGENCY ENGAGEMENT DOCUMENTATION

Alaska LNG NEPA Coordination Meeting  
Action Items and Meeting Notes  
January 6, 2015  
USAI-PE-SAMOM-00-000030-000

<b>Attendees:</b>	State of Alaska: Mark Morones, Shannon Miller, Don Perrin  Alaska LNG: Karen Wuestenfeld, Ben Wood, Jon Schmidt (telephonic)
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Action Items	Responsible Person
Creation of web mapper (Arch information tool/data portal containing USGS maps, LiDar and aerial maps) and Sharepoint sites.	Jon Schmidt
Identification of state employees (including email addresses) to access web mapper & Sharepoint sites.	Mark Morones
Follow up meetings between state agency representatives and Alaska LNG to discuss comments and issues identified in the draft resource reports and to discuss the FERC pre-filing process.	Mark Morones to coordinate with Ben Wood (after comments have been submitted to FERC)
Provide hard copies of maps and related materials from the draft resource reports	Ben Wood (as requested by Mark Morones for the state agencies)

**Meeting Notes:**

Purpose of this meeting was to coordinate with Alaska LNG Project NEPA leads to coordinate state agency comments for the filing of the first draft Resource Reports. Alaska LNG anticipates the release of 12 draft reports by the first week of February 2015. (Resource Report 13 addressing engineering and design for the proposed LNG facility will not be released at this time).

**Logistics:**

Alaska LNG anticipates submitting the draft resource reports to FERC by the first week of February 2015. The reports will be available on the FERC eLibrary and will be posted on a SharePoint site prepared by Alaska LNG. Hard copies of various project maps can be made available in hard copy from Alaska LNG upon request; depending on the volume of requests this could take about a week.

**Content:**

Resource Report 1 (general project description) will be similar to the report previously filed in Q3 2014.

The focus of the resource report content will address environmental issues, with a focus on baseline. More technical discussions will be developed for subsequent draft reports, expected to be filed at the end of 2015 or early 2016. State agencies should focus on identifying potential data gaps and potential challenges arising from the reports, including siting, construction, and execution issues.

**Coordination**

SEE action items, described above. Per logistics discussion, Alaska LNG suggested its willingness to hold a meeting with state agencies to discuss FERC pre-filing process and to offer instructions for how state employees can access and utilize web mapper and SharePoint sites.

## AGENDA

<div>Meeting</div>	<b>Project Name:</b>	2015 Cook Inlet Geotechnical & Geophysical Program
	<b>Meeting Subject:</b>	NMFS IHA Pre-Application Meeting
	<b>Date of Meeting:</b>	08-Jan-15
<div>Telephone</div>	<b>Number:</b>	USAI-PE-SAMOM-00-000009-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
✓ Shannon Miller	NS Gas Commercialization Permitting Coordination Team, ADNOR – SPCO	Don Perrin	NS Gas Commercialization Permitting Coordination Team
✓ Mark Morones	NS Gas Commercialization Permitting Coordination Team, ADNOR - OPMP	✓ Jason Walsh	SPCO
Benjamin Laws	NOAA	✓ Sara Young	NOAA
✓ Robert Pauline	NOAA	✓ Jolie Harrison	NOAA
✓ Caryn Rea	Alaska LNG – Environmental	✓ Barb Mahoney	NOAA
✓ Billy Oliver	Alaska LNG – Engineer	✓ Greg Balogh	NOAA
✓ Greg Green	Owl Ridge – AK LNG consultant	✓ Steve Ellsworth	Exp – Alaska LNG consultant
✓ Cathy Tortariece	NOAA	✓ Claire Joseph	Alaska LNG – Regulatory

### AGENDA ITEMS:

Item	Agenda Item(s)	Leader	Duration
1	Introductions	All	00:05
2	Purpose	Claire Joseph	00:05
3	Project overview	Billy Oliver	00:20
4	IHA Application Discussion	All	00:20
5	Next steps & wrap up	Claire Joseph	00:10

### ACTION ITEMS:

Item	Action Items/Topics	Action Item(s) Assigned To:	Due Date
1	<b>Plan of Cooperation (POC) requirement</b> NMFS confirmed that a formal plan of cooperation (POC) with subsistence communities such as those which are prepared for North Slope projects is not required for the Cook Inlet work scope. Sections within the IHA application will be augmented with more details about how the Project team will obtain information from the communities on subsistence harvest activities.	Alaska LNG Project Team	

## MINUTES OF MEETING

### 2015 Cook Inlet Geotechnical & Geophysical Program

2	<p><b>2015 Work Schedule &amp; Timing of Authorization</b>  NMFS asked for information regarding the planned schedule of operations, including desired starting date. Project representatives communicated that they would like to begin work as early as April if authorizations are obtained and the water is free of ice. A detailed schedule of operations is still being prepared.</p> <p>NMFS indicated that the minimum time period needed to issue an Authorization would be 5 months in the best of circumstances. Jolie Harrison identified several risks associated with the Project that could delay the authorization, including: the decrease in beluga population, location and timing of activities for this particular program, and current litigation regarding activities in Cook Inlet. NMFS communicated that upon receipt of a complete application, the Project should anticipate 5 months minimum for authorization, and likely not until June if they receive the application fairly soon.</p> <p>NMFS advised that the Project should consider optimizing how the different equipment (some of which requires IHA and some of which does not) can be utilized throughout the work area to accomplish the Project objectives while avoiding known sensitivities (i.e. summer feeding areas for Cook Inlet Belugas, set net seasons, etc.). Barbara Mahoney indicated that NMFS might be able to issue a Letter of Concurrence for the proposed work around Nikiski.</p>	Alaska LNG Project Team	
3	<p><b>Clarification of IHA-triggered work activities</b>  Project representatives initiated discussion about removing the geotechnical borings from the IHA – at least for any authorization requested. NMFS indicated no issue but stated it was the Project Team's decision to make. The Project representatives concurred.</p>	Alaska LNG Project Team	
4	<p><b>Marine Mammal Monitoring</b>  Greg Balogh asked at what sea state marine mammal monitoring would stop (would be effective to) given the ZOI radius of 2.5 kms distance from the vibracoring. The Project stated that they intend to have marine mammal observers on the geophysical vessel (which conducts the vibracores) but not the geotechnical vessel (jack-up). Other means for observing are not currently under consideration for this work program.</p>	N/A	
5	<p><b>ESA &amp; EFH Consultations</b>  NMFS confirmed that they are aligned with the Project's proposed provision of supporting documentation for the Endangered Species Act (ESA) and Essential Fish Habitat (EFH) consultations.</p>	Alaska LNG Project Team	
6	<p><b>Cook Inlet Beluga Critical Habitat Sensitivities</b>  NMFS said that based on their whale tagging program, they know that the Cook Inlet beluga whales are spending most of their time at three locations: Susitna river delta, Knik Arm, or Chickaloon. In the summer, the whales are above the first fathom of the water column. In winter, they are swimming lower (below first fathom). Previous authorizations (i.e. Apache) have prohibited taking of belugas in groups larger than 6 because it is assumed that those groups would have calves. NMFS may require group size limitations.</p>	N/A	

## MINUTES OF MEETING

### 2015 Cook Inlet Geotechnical & Geophysical Program

7	<p><b>Project NEPA schedule &amp; NMFS alignment to FERC schedule</b> Project representatives clarified that the requested authorization being discussed at the meeting is for a field engineering survey program (not for the full Alaska LNG Project).</p> <p>NMFS inquired about the overall Project schedule with respect to NEPA timelines, including the drivers for FERC's schedule. The Project representatives responded that the Project is currently midway through the FERC Pre-File process. NMFS indicated that they planned to meet with FERC to be updated on the Project timelines.</p> <p>NMFS may choose not to be a cooperating agency for the Alaska LNG EIS.</p>	NMFS	
8	<p><b>Pipeline Route Selection for Cook Inlet Crossing</b> NMFS inquired about how the pipeline routes across Cook Inlet were selected. Billy Oliver confirmed that the two routes are being carried forward for further study and analysis, and that the Cook Inlet Geotechnical &amp; Geophysical (G&amp;G) program (the subject of the meeting) would help the Project optimize these routes to technically propose the primary route for Project development. The data collected in summer 2015 will be incorporated into the second draft Resource Reports, submitted to FERC as part of the Project application.</p>	N/A	
9	<p><b>IHA Application – Vibracore</b> Project representatives communicated that use of the vibracore along the pipeline corridors to fill data gaps will be included in the IHA application. The majority of the vibracore samples would be along the potential pipeline corridor centerline, and then vibracores will also be acquired at places off the pipeline corridor centerline as determined during the operation as live-feed data is acquired from the other geophysical activities and assessed onboard the geophysical vessels. The vibracoring occurs for a very short duration (seconds to minutes, and up to 10 minutes depending upon substrate) with several vibracores attempted each day.</p> <p>The Project team is working to identify opportunities to optimize the vibracore work scope to more accurately reflect the potentially ensounded areas in terms of space and time.</p>	Alaska LNG Project Team	

## MINUTES OF MEETING

### 2015 Cook Inlet Geotechnical & Geophysical Program

10	<p><b>IHA Application – Jack-Up Platform for Geotechnical Borings</b></p> <p>The Project representatives explained that the jack-up platform (Skate 3) to be used for the geotechnical borings will be smaller and quieter than oil &amp; gas exploration &amp; production rigs. Data from the Spartan rig was used to assess the extent of ensonification, which is overly conservative but is the only data available for Cook Inlet. The proposed equipment (Skate 3 jack-up) is modular and will be towed into place, then four legs lowered to the seafloor for stabilization and the platform jacked up out of the water (minimizing contact with the seafloor for transfer of noise or vibrations). Further, the jack-up platform will have very minimal equipment onboard with no deep well pump. No sound source verification (SSV) is planned for the jack-up rig. No marine mammal observers will be located on the jack-up due to safety limitations (small work space and vessel to jack-up transfers required for personnel).</p>	N/A	
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## MINUTES OF MEETING (MOM)

Project Name:	Compensatory Mitigation for Gas Treatment Plant Test Trench Program		
Meeting Type:	Meeting/Workshop		
Meeting Subject:	Compensatory Mitigation (wetlands) for GTP test trench & future wetlands mitigation planning		
Date of Meeting:	01/12/2015		
Document Control Number:	USAG-PE-SAMOM-00-000010-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Adrienne Rosecrans		Alaska LNG Project	
Sandra Barnett		Alaska LNG Project	
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Meeting Summary	A meeting with AK Conservation Fund to discuss mitigation for the test trench program.	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING (MOM)

Project Name:	Kenai Spur Highway Reroute		
Meeting Type:	Meeting/Workshop		
Meeting Subject:	Kenai Spur Highway Reroute		
Date of Meeting:	01/14/2015		
Document Control Number:	USAI-PE-SAMOM-00-000008-000		
ATTENDED BY:	ORGANIZATION:		
Chris Grundman	Alaska Department of Natural Resources (ADNR)		
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)		
Jeff Raun	Alaska LNG Project		
Jennifer Witt	Alaska Department of Transportation and Public Facilities (ADOTPF)		
Joel St. Aubin	Alaska Department of Transportation and Public Facilities (ADOTPF)		
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)		
Kim Rice	Alaska Department of Transportation and Public Facilities (ADOTPF)		
Manny Lopez	Paragon Partners Ltd		
Mark Jennings	Alaska LNG Project		
Matthew Horneman	Alaska LNG Project		
Scott Guttormson	Alaska LNG Project		
Shannon Miller	ADNR, State Pipeline Coordinator's Section		
AGENDA ITEMS:			
Item	Agenda Item	Description	
1	FHWA ROW	ADOT&PF received verbal confirmation from the Federal Highways Administration confirming that there are no restrictions to having a private entity procure right-of-way (ROW) and then transferring that ROW to the State for management under federal highway programs; designated classification of road system may require change.	
2	KSH Project Development	ADOT&PF suggested a plan to manage the highway work using ADOT&PF specifications with private funds and then transferring ownership of the relocated highway to the State.	
3	Transportation Studies	Project team to kick-off Kenai Spur Highway early transportation studies through HDR Alaska; ADOT&PF agreeable to milestone driven engagement moving forward; ADOT&PF commented on need for traffic forecasts during and after construction.	
4	Third Party Stakeholder Engagement for KSH	SPCO questioned what level of engagement is occurring with Kenai Peninsula Borough and other Agencies; project team to continue developing engagement framework in addition to ongoing meetings with KPB Mayor's office.	
ACTION ITEMS:			
Item	Action Items/Topics	Assigned To	Due Date





# MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Upstream
	<b>Meeting Subject:</b>	North Slope Gas Treatment Plant – PSD Monitoring Approach
	<b>Date of Meeting:</b>	January 15, 2014
	<b>Location:</b>	Alaska Dept. of Env. Quality Offices, Anchorage, AK

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Barbara Trost	ADEC	Alan Schuler	ADEC
Adrienne Rosecrans	Alaska LNG Project	Jim Pfeiffer	Alaska LNG Project
Norm Scott	Alaska LNG Project	Greg Arthur	BP
Alison Cooke (Tele)	BP	Tom Damiana (Tele)	AECOM
Bart Leininger (Tele)	ALG	Shannon Miller (Tele)	ADNR-SPCO

## AGENDA ITEMS:

Item	Agenda Item(s)	Leader	Duration
1			
2			
3			

## ACTION ITEMS:

Item	Action Items/Topics	Action Item(s) Assigned To:	Due Date
1	AKLNG proposes to rely upon the CCP monitoring data to satisfy the PSD pre-construction monitoring requirement. This was accepted by ADEC.		
2	AKLNG proposes to rely on background data collected at A-Pad and CCP noting the conservatism in both data sets for background pollutants and ozone. ADEC agreed that the data would be conservatively representative for modeling.	ADEC would provide a composite 3-year ozone dataset to minimize NOx scavenging using A-Pad data.	
3	AKLNG discussed possible options to review/correct the A-Pad dataset to reduce the conservatism in the pollutant concentrations. ADEC indicated that this would not be acceptable as there would be no conclusive way to do this accurately or fairly.		
4	AKLNG presented the possibility of collecting background pollutant data from an alternative site. ADEC was open to this option as long as the site and monitoring approaches were consistent with EPA and ADEC monitoring guidance.	AKLNG to determine if it would like to collect new background data from an alternative site.	
5	ADEC suggested that AKLNG consider using the CCP ambient datasets as background data and not model CCP/CGF explicitly. ADEC indicated that this approach was proposed by the ASAP Project and ADEC was open to the approach.	If AKLNG proposes to model the GTP without explicitly modeling CCP/CGF, it would need to submit a formal proposal and provide justification.	

## MINUTES OF MEETING

### NORTH SLOPE GAS TREATMENT PLANT – PSD MONITORING APPROACH

6	AKLNG proposes to rely upon A-Pad 10-meter meteorological data for modeling. ADEC indicated that using these data sets would be acceptable as long as GTP stack heights were less than 60 meters. If stack heights exceed 60 meters, AKLNG would need to justify use of the 10-meter data set for this application.	AKLNG to review its proposed stack heights and determine if a separate justification is required.	
7	AKLNG discussed the possibility of collecting tall tower meteorological data from a separate site. ADEC would support this option, particularly if stack heights exceed 60 meters. If this approach is considered, meteorological monitoring would be required to meet EPA and ADEC monitoring guidance.	AKLNG to determine if tall tower meteorological data collection are needed/desired.	



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
<input type="checkbox"/> Telephone	<b>Meeting Subject:</b>	ESA and EFH Consultation Processes for GTP and Cook Inlet G& G Program
	<b>Date of Meeting:</b>	January 16, 2015; 1330-1430
	<b>Number:</b>	USAG-PE-SAMOM-00-000011-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Caryn Rea	Alaska LNG Project	Greg Balogh	NMFS
Adrienne Rosecrans	Alaska LNG Project	Barbara Mahoney	NMFS
Chris Wrobel	exp	Doug Limpinsel	NMFS
Bridget Crocus	NMFS		

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration (min)</u>
1	ESA and EFH Consultation for AK LNG Project during Front End Engineering and Design (FEED) Phase	Caryn Rea	15:00
2	ESA and EFH Consultation Process for Cook Inlet G&G Program	Caryn Rea	15:00
3	ESA Consultation for Winter "Test Trench" Trials in the Beaufort	Adrienne Rosecrans	30:00

### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Waterway Suitability Assessment 2015 Schedule Overview		
Meeting Type:	Meeting/Workshop		
Meeting Subject:	Waterway Suitability Assessment 2015 Schedule Overview		
Date of Meeting:	01/21/2015		
Document Control Number:	USAI-PE-SAMOM-00-000035-000		
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>		
Claire Joseph	Alaska LNG Project		
Don Perrin	North Slope Gas Commercialization Permitting Coordination Team		
Mark Morones	North Slope Gas Commercialization Permitting Coordination Team		
Shannon Miller	North Slope Gas Commercialization Permitting Coordination Team		
<b>AGENDA ITEMS:</b>			
Item	Agenda Item	Description	
1	Overview of WSA Process	Alaska LNG representative provided overview of the WSA process and schedule for 2015 so that the team was familiar in advance of an early February meeting with the USCG. Shannon Miller mentioned that it would be good to emphasize that the WSA is one of a number of state and federal reviews and plans put in place to ensure safety, security, and emergency response.	
2	Stakeholder Engagement	Group discussed the importance of engaging the right individuals to contribute to the WSA process. The Group reviewed a list of individuals that may be asked to participate in the WSA process via participation in the technical risk assessment, or by the opportunity to participate by public comment. Don Perrin mentioned it would be worth identifying the location of the Cosmopolitan oil and gas lease (operated by Bluecrest Energy). Shannon Miller mentioned that Cook Inletkeeper may be considered as a stakeholder that could be added for consideration. The group discussed the requirements of federal consultation with tribal governments (in this case USCG to tribal groups).	
<b>ACTION ITEMS:</b>			
Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING (MOM)

Project Name:	Update on AHTNA Permit - 2014 Summer field Season and 2015 plans
Meeting Type:	Meeting/Workshop
Meeting Subject:	Update on AHTNA Permit - 2014 Summer field Season and 2015 plans
Date of Meeting:	01/22/2015
Document Control Number:	USAI-PE-SAMOM-00-000118-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Dan Lee	Ahtna Construction
David Sinclair	Paragon Partners Ltd
Heidi Lingenfelter	Ahtna Inc.
Joe Bovee	Ahtna Inc.
Kathryn Martin	Ahtna Inc.
Matthew Horneman	Alaska LNG Project
Michelle Anderson	Ahtna Netiyé'
Roy Tansy Jr	Ahtna Netiyé'

### AGENDA ITEMS:

Item	Agenda Item	Description
1	2014 Summer Season Update	Overview / outline provided of work scope achieved in 2014 SFS Most of the field work on AHTNA lands wasn't completed Pre FEED engineering ongoing - looking at where there might be reroutes Worley parsons (Calgary) working with AGDC re data that can be shared
2	Plans for 2015 Season	Work scope will be largely the same as the 2014 season eg. - Geotech Boreholes to be drilled - Slope end stability studies - Walk through on ROW Confirmed that the route currently avoids Native allotments
3	Queries on the ROW Routing	Jo Bovee made general queries re the route alignment and orientation to the Hwy Dave Sinclair responded to queries M Horneman suggested MAP Books could be reviewed by AHTNA Dave Sinclair confirmed the first 460 miles on the current ROW is on State and Federal lands M Horneman clarified the project currently has 5 take offs planned for domestic consumption and the upcoming issues / challenges for the New Governor and legislature is to address the funding and fiscal regime for the project. A critical issue prior to any decisions on take offs and associated infrastructure with gas pipeline distribution systems.
4	AHTNA processes - prior to endorsement of ROW	Jo Bovee / Roy Tansy stressed the need for early and ongoing consultation on the ROW routing The internal review and stakeholder engagement processes within AHTNA shareholders and Communities can take up to 2 years before decisions can be made. Some Federal lands haven't been conveyed yet to AHTNA - therefore awareness of ROW is critical to determine implications
5	Business Development Opportunities	Michelle Anderson stressed the need for early engagement regarding business opportunities so as communities are not left as bystanders. Requested that the project be able to provide a quarterly update - By internet on project progress and business opportunities Roy Tansy outlined AHTNA's capabilities (providing Corporate Capabilities brochure) and highlighted AHTNA's track record and dominant market share with respect to Alaska Landowner Corporations and involvement in the Oil and Gas Services sector Jo Bovee enquired as to how shareholders of AHTNA can nominate to be preferred candidates for hire to work on the project

Item	Agenda Item	Description
6	Permitting 2015 - Way Forward	Jo Bovee confirmed with Dave Sinclair to please update once Scope of Work is confirmed and areas of interest to work in SFS2015 Jo will work with Heidi the AHTNA permits coordinator to progress once details are provided



2015 CULTURAL SURVEY PROGRAM NIKISKI  
AREA

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PAGE 1 OF 1

MEETING DETAILS

<b>Sub-Project Name</b>	Alaska LNG Liquefaction Facility	<b>Date of Meeting</b>	February 5, 2015
<b>Meeting Subject</b>	2015 Cultural Survey Program Nikiski Area		

ATTENDEES

Attended By	Organization	Attended By	Organization
Dick Raines (phone)	Alaska LNG Project	Rich Vanderhoek	SHPO
Billy Oliver (phone)	Alaska LNG Project	Jeff Raun	Alaska LNG Project
Mike Kelly (phone)	AECOM	Aurora Courtney	exp
Mark Morones	SPCO	Shannon Miller (phone)	SPCO
Ned Gaines	AECOM	Shina DuVall	SPCO

AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Introductions	Raun	
2	Safety moment	Gaines	
3	Meeting objectives	Raun	
4	Alaska LNG Project overview	Raun	
5	Nikiski onshore geophysical & geotechnical site investigations 2014 work completed	Gaines	
6	Proposed 2015 work	Raines/Oliver	
7	Geophysics known AHRS sites in vicinity & sensitivity modeling	Gaines	
8	Proposed survey & monitoring strategies	Gaines	
9	Geotechnical proposed survey & monitoring strategies	Gaines	
10	Timing of monitoring agreement/MOA & required inputs	Gaines	
11	Next steps	Gaines/Raun	

ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Waterway Suitability Assessment Port Characterization Report Review	
Meeting Type:	Meeting/Workshop	
Meeting Subject:	Waterway Suitability Assessment Port Characterization Report Review & Stakeholder Meeting Preparation	
Date of Meeting:	02/06/2015	
Document Control Number:	USAI-PE-SAMOM-00-000036-000	
ATTENDED BY:	ORGANIZATION:	
Aurora Courtney	exp Energy Services	
Brad Fuller	AcuTech	
Chief James Berna	United States Coast Guard	
Claire Joseph	Alaska LNG Project	
David Moore	Architects Alaska	
Dennis Maguire	Alaska LNG Project	
Don Perrin	North Slope Gas Commercialization Permitting Coordination Team	
Ed Stokes	Alaska LNG Project	
Eugene Chung	United States Coast Guard	
Hector Cintron	United States Coast Guard	
Jason Walsh	Alaska Department of Natural Resources	
Jeff Raun	Alaska LNG Project	
John Taylor	Alaska LNG Project	
Jon Schmidt	exp Energy Services	
Mark Morones	North Slope Gas Commercialization Permitting Coordination Team	
Pete DeCola	Nuka Research and Planning Group	
Robert Davis	United States Coast Guard	
Sandra Barnett	Alaska LNG Project	
Shannon Miller	North Slope Gas Commercialization Permitting Coordination Team	
Tim Robertson	Nuka Research and Planning Group	
AGENDA ITEMS:		
Item	Agenda Item	Description
1	Introductions, Safety Moment & Meeting Objectives, Alaska LNG Project Update	
2	WSA Overview	David Moore provided overview of the WSA process.
3	Port Characterization - Review & Discussion	Alaska LNG consultants stepped through the Draft Port Characterization Report, describing the contents of each section and the data or references used for that section. USCG will review and provide feedback on Draft Port Characterization Report by the end of February.
4	Kachemak Bay - LNGCs	USCG asked if a study has been done regarding feasibility of fully loaded LNG Carriers entering the anchorage in Kachemak Bay. Project representatives responded that yes, the Project was studying that topic and SWAPA has been consulted
5	AIS Data	USCG asked if the vessel traffic information used in the Draft Port Characterization Report is current, noting that tanker traffic into the Port of Anchorage has changed due to the closure of the refinery in Fairbanks. Alaska LNG consultants confirmed that the current version of the Draft Port Characterization Report utilizes 2010 data. The 2014 AIS data has been ordered, and will be analyzed. Vessel traffic densities using the 2014 data will be updated in the Draft Port Characterization report before the WSA workshop.



Item	Agenda Item	Description
6	Security Scenarios	USCG asked if the WSA includes consideration of security events. Dave Moore responded that the WSA will be assessing security threats in addition to public safety scenarios. The WSA consultants will discuss with USCG in advance of the WSA workshop how other WSA projects have assessed such threats. The risk assessment methodology proposed to be used is an API standard that meets the requirements of the NVIC.
7	Upcoming WSA Meetings	The group discussed the approach for upcoming WSA meetings, including introductory meetings with the technical assessment group and stakeholder representative groups as well as preparation meetings between USCG and the Alaska LNG Project representatives. USCG suggested that participants in the upcoming WSA introductory meetings may need additional time for providing their input and should be allowed a comment period after the meeting but before the WSA workshop. A comment period of approximately 30 days was suggested and will be pursued. Upon receiving these comments, the USCG and the Alaska LNG Project representatives will meet to review and incorporate comments as applicable in the preparations for the WSA workshop, which will be attended by the technical assessment group.
8	Scheduling of WSA Meetings	USCG suggested moving the proposed WSA introductory meetings to a week other than the week of March 16, since that is spring break for local schools and may limit participation. It was noted that USCG will also be engaged in meetings with the FERC during the week of March 9 regarding the Alaska LNG Project Pre-File report reviews. Alaska LNG representatives will propose a new schedule of meetings and will arrange venues.
9	WSA Meeting Coordination, Planning	The USCG clarified that USCG would lead and facilitate the stakeholder engagement meetings. Alaska LNG will assist with meeting logistics and preparations. USCG requested one or several pre-meetings to coordinate with the Alaska LNG representatives. Alaska LNG Project requested a meeting with the USCG in advance of the WSA workshop in order to review current emergency response protocols, security procedures and capabilities. It was agreed that this meeting was necessary and will be scheduled.
10	Project Schedule	LT Chung requested an updated schedule of upcoming WSA meetings. Project representatives will provide a revised project schedule to USCG.
11	Security Zones	Alaska LNG Project inquired about the security/safety zone around existing Kenai LNG facility. Project and USCG agreed that this and other existing protocols would be subject of preparation meetings before WSA workshop.
12	Document Sharing via Home Port	USCG will setup a Home Port page for sharing documents related to Alaska LNG Project WSA.
13	SSI Non-Disclosure Agreements	Alaska LNG personnel and the Technical Assessment Team members will be required to sign SSI non-disclosure agreements.
14	Sub Area Committee Meeting	USCG requested that the Project present at an upcoming Subarea Committee meeting on May 19 (presentation would cover WSA activity). LT Chung indicated that he would get in touch with LT Matt Mitchell to arrange.



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Alaska LNG Project Web Mapper & SharePoint Overview for State and Federal Agency Representatives
Meeting Type:	Meeting/Workshop
Meeting Subject:	Alaska LNG Project Web Mapper & SharePoint Overview for State and Federal Agency Representatives
Date of Meeting:	02/10/2015
Document Control Number:	USAI-PE-SAMOM-00-000037-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Andrea Thornton	Natural Resources Group
Benjamin Nussdorf	Division of Natural Gas Regulatory Activities
Bob Henszey	United States Fish and Wildlife Service
Cameron Kuhle	United States Army Corps of Engineers
Candice Snow	Alaska Department of Natural Resources
Charleen Veach	United States Fish and Wildlife Service
Chris Grundman	Alaska Department of Natural Resources
Chris Meade	exp Energy Services
Claire Joseph	Alaska LNG Project
Clark Cox	Alaska Department of Natural Resources
Dan Hubner	Natural Resources Group
David Bloom	Alaska Department of Transportation and Public Facilities
David Driscoll	Alaska Department of Natural Resources
David Hassell	Pipeline and Hazardous Materials Safety Administration
Deanne Stevens	Alaska Department of Natural Resources
Dianna Leinberger	Alaska Department of Natural Resources
Don Perrin	North Slope Gas Commercialization Permitting Coordination Team
Donald (Tom) Johnson	Pipeline and Hazardous Materials Safety Administration
Earle Williams	Bureau of Land Management
Elizabeth Dolezal	Natural Resources Group
Eugene Chung	United States Coast Guard
Gary Evans	Alaska Department of Environmental Conservation
Gary Mendivil	Alaska Department of Environmental Conservation
Gayle Martin	United States Environmental Protection Agency
Jack Winters	Alaska Department of Fish and Game
James Sowerwine	Alaska Department of Natural Resources
Jamie Grant	Alaska Department of Environmental Conservation
Janet Post	United States Army Corps of Engineers
Jason Walsh	Alaska Department of Natural Resources
Jeffrey Gilliam	Bureau of Land Management
Jeffrey Weinberger	Alaska Department of Natural Resources
Jennifer Murrell	Alaska Department of Natural Resources
Jennifer Spagon	United States Fish and Wildlife Service
Jewel Bennett	United States Fish and Wildlife Service
John Boentje	Natural Resources Group
Katrina Chambon	Alaska Department of Environmental Conservation
Louise Smith	United States Fish and Wildlife Service
Marci Balge	NewFields

ATTENDED BY:	ORGANIZATION:
Mark Jennings	Alaska LNG Project
Megan Boldenow	United States Fish and Wildlife Service
Philip Johnson	United States Department of the Interior
Richard Vanderhoek	Alaska Department of Natural Resources
Robert Guisinger	Pipeline and Hazardous Materials Safety Administration
Robin Walthour	Bureau of Land Management
Sarah Yoder	DHSS
Serena Sweet	Bureau of Land Management
Shannon Miller	North Slope Gas Commercialization Permitting Coordination Team
Shannon Torrence	United States Fish and Wildlife Service
Shina Duvall	Alaska Department of Natural Resources
Susan LaKonski	United States Fish and Wildlife Service

**AGENDA ITEMS:**

<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>
1	Overview of GIS Web Mapper	Jason Knier from exp Energy Services (consultant to Alaska LNG Project) provided an overview of how to utilize the GIS web mapper set up to provide agency personnel access to Alaska LNG Project data submitted in the 1st Draft FERC Pre-File Resource Reports.
2	Overview of Agency Sharepoint Site	Vintrisa Young from exp Energy Services (consultant to Alaska LNG Project) provided an overview of how to utilize the SharePoint site for agency personnel to access the Alaska LNG Project 1st Draft FERC Pre-File Resource Reports.
3	Meridian, Township, GIS Coordinates	Shannon Miller/SPCO asked about whether meridian & township information would be available on Web Mapper. Answer: coordinates and community locations can be found through search field at upper right-hand corner of the Web Mapper screen.
4	Cultural / Archaeology	Tim Hammond (BLM/archaeologist) asked about sensitive cultural resource data. That information will be available at a separate location on the website with restricted access to BLM/Archaeologists & SHPO. Subsistence data has not been collected or presented yet in the Project Resource Reports, so that information will not be found in any web mapper.
5	URL Sharing/Emailing	Earle Williams (BLM) asked about the ability to capture URL information off Web Mapper to share. That function is not available - viewer must email screenshot, or can refer a colleague to a particular map book view corresponding to the resource report submittal.
6	Bookmarks	Mark Morones (DNR-OPMP) asked about whether individual bookmarked captures on the map would contain layer information (similar to preset bookmarks). Answer is yes.
7	Pipeline Corridors and LNG Study Areas	Ben Wood communicated that the pipeline corridors and area of study at the LNG Plant are wide/large corridors/areas because the project has not determined final pipeline route alignment nor the final location of facilities at LNGP.



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	ADF&G Soldotna - Commercial Fishing Schedules
Meeting Type:	Face to face
Meeting Subject:	ADF&G Soldotna - Commercial Fishing Schedules
Date of Meeting:	02/12/2015
Document Control Number:	USAI-PE-SAMOM-00-000070-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Aurora Courtney	exp Energy Services
Claire Joseph	Alaska LNG Project
Jeff Raun	Alaska LNG Project
Pat Shields	Alaska Department of Fish and Game (ADF&G)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Introductions	<p>Stopped at ADF&amp;G office for personal introductions with Pat Shields, who has been contacted several times as part of permit requirements to consult ADF&amp;G on commercial fishing seasons for marine / Cook Inlet work scopes. (Most recently Pat was consulted regarding upcoming ASL metocean work planned for April).</p> <p>Claire Joseph showed Pat the map of proposed Project G&amp;G activities in work areas in Upper and Middle Cook Inlet for summer 2015 and explained the types of activities to be conducted in the area. Pat Shields indicated that the fishermen may be concerned about "explosions" in the water and the potential impacts of the sound on the fish. Claire Joseph communicated that this program is not of same magnitude as large geophysical exploration program and further described the types of work to be conducted near the marine terminal sites.</p>
2	Fishing Schedule Resources, Publications	<p>Jeff and Claire inquired about the resources available to be updated on fishing seasons/openings/closures (besides the regulation or calling ADF&amp;G directly). Pat mentioned a Cook Inlet Outlook that will be published for 2015 as a good reference. It is anticipated to be available in next few weeks. Pat also encouraged Project representatives to contact ADF&amp;G Commercial Fishing and/or to call into the line that is managed /updated several times a day during fishing season (+1 907 262 9611).</p> <p>Claire Joseph indicated that the Project would be reaching out to leaseholders and that the permitting process would also prompt agency contact/notification of leaseholders. Pat recommended engaging with the Kenai Peninsula Fishermen's Association.</p>
3	Fishing Schedules	<p>Pat explained that in Upper Cook Inlet, only shore fishing is allowed. Drift net and set net fishing is not allowed. In Upper Cook Inlet, fishing during salmon season (July 8-Aug 15) is only allowed on Mondays and Thursdays.</p> <p>In Middle Cook Inlet, drift net, set net, and shore fishing is allowed. There are about 450 set netters in and around Soldotna / on the east side of Cook Inlet. Fishing is not allowed on Fridays (to "prepare" for the weekend). Pat indicated there may be a deviation from the management plan which would then limit fishing to a certain number of hours during the week (any day) rather than restricting to Mondays and Thursdays. This deviation has not been determined/confirmed yet for this season.</p> <p>Pat re-iterated that review of shore fishery leases only reveals some of the potential fishermen that will be working in that area - those that are willing to pay to reserve a section of beach. People may choose to fish in areas without acquiring fishing leases and Project representatives should anticipate to see and interact with fishermen even in areas with no fishery leases.</p>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	LNG Plant G&G Pre-Application Meeting		
Meeting Type:	Meeting/Workshop		
Meeting Subject:	2015 Nikiski and Cook Inlet Area Geophysical and Geotechnical Programs		
Date of Meeting:	02/12/2015		
Document Control Number:	USAL-PE-SAMOM-00-000002-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Alana Smith	Alaska LNG Project		
Aurora Courtney	exp Energy Services		
Billy Oliver	Alaska LNG Project		
Claire Joseph	Alaska LNG Project		
Claudia Furlong	Homer Electric Association		
Jeff Raun	Alaska LNG Project		
Manny Lopez	Paragon Partners Ltd		
Matthew Horneman	Alaska LNG Project		
Shannon Miller	North Slope Gas Commercialization Permitting Coordination Team		
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Buffers for Anadromous Streams	(ADF&G) inquired what the work offset / buffer is for streams. Jeff Raun re-iterated that the planned work scope will not be located near anadromous streams, and therefore will not require a buffer, but that the buffer discussed last year with Patty Berkhan was 150 feet.	
2	State Game Refuge	Inquiry whether the work near the state game refuge will be in uplands or tidal lands, and if the work is conducted in the uplands, that the DNR would issue the relevant permit. Alana Smith indicated that the Project was still working on jurisdictional determinations.	
3	Kachemak Bay Anchorage	(ADF&G) inquired about vessel activity in Kachemak Bay area, and expressed that there would be permits required in the critical habitat area in Kachemak Bay for anchorage.	
4	Kenai Peninsula Bluffs	Inquiry regarding the inter-tidal work at pipeline shore crossings, whether the project would be cutting into the bluff. Alana Smith communicated that she would include that detail in the scope of work for permit application.	
5	KPB Floodplain Permitting	Project inquired how the flood plain aspect should be addressed in terms of permit submissions. (KPB) indicated that the project should submit the temporary land use permit, and that would be forwarded onward to the appropriate individuals, including the flood plain advisor. Harmony Curtis indicated that the multiuse/agency form would be accepted for documentation.	
6	Public Engagement	Project indicated that the Project would engage community and other local stakeholders through an open house about the summer field programs, leadership meetings, and engagements with private landowners and leaseholders. Shannon Miller inquired whether the open houses would be posted on the ak-lng.com website. Jeff Raun confirmed that yes, the public meetings/information sessions would be posted on the website.	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING (MOM)

Project Name:	Pipeline team PHMSA Engagement Kick-off
Meeting Type:	Meeting/Workshop
Meeting Subject:	Pipeline Team Kick-off with PHMSA
Date of Meeting:	02/13/2015
Document Control Number:	USAP-PP-YAMOM-10-000003-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Alan Mayberry	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jack Beattie	Alaska LNG Project
Jeff Weiss	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jeffery Gilliam	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Linda Daugherty	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Marcello Panelo	BP DC Office
Michael Zhang	Alaska LNG Project
Rick Noecker	Alaska LNG Project
Ruben Medrano	Alaska LNG Project
Sandra Barnett	Alaska LNG Project
Susan Carter	ExxonMobil

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Meeting Summary	<ol style="list-style-type: none"> <li>Steel and steel mills: Quality and the need for tight controls from the earliest stages discussed. PHMSA would like to engage early on this issue.</li> <li>Collateral Damage: as it relates to TAPS</li> <li>Above ground vs. below ground pipe: PHMSA acknowledged the above ground preference for the PTTL</li> <li>QMS for construction phase: INGAA Foundation has done work in this area and API is preparing an RP.</li> <li>Construction contractors: The Project stated that construction contractors have not been chosen</li> <li>PHMSA inspection during construction: The current plan is 4 simultaneous spreads over 4 seasons and the sealift schedule drives the overall construction schedule.</li> <li>Climate change-PHMSA commented that cc needs to be factored into modelling to address subsidence</li> <li>Alternative valve spacing: PHMSA stated that there is an administrative approvals process that will need to be executed.</li> <li>Corrosion: CP programs were discussed.</li> <li>Special Permits: reviewed and discussed, including application, timing, renewal terms, inclusion of information and public comment process. Comments from the public comment process are addressed in the Analysis and Findings (A&amp;F) document produced by PHMSA</li> <li>Alan Mayberry is the Project's overall PHMSA lead with Mr. Mayberry working in partnership with Ken Lee and Jeffrey Gilliam. Mr. Gilliam's focus is field operations. Steve Nanney will be the overall technical coordinator. Alan Mayberry is the prime contact for LNG Facility engagement.</li> <li>The Project will invite PHMSA to FST.</li> <li>Arrangements for data sharing were discussed.</li> <li>Classification of proprietary information was reviewed.</li> <li>Noted that FERC and PHMSA will have an MOU to address AK LNG.</li> </ol>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	ADOT&PF 2015 Nikiski G&G Onshore Pre-Application Meeting
Meeting Type:	Phone Call
Meeting Subject:	2015 Nikiski Onshore G&G Pre-Application Meeting with ADOT&PF Central Region
Date of Meeting:	02/17/2015
Document Control Number:	USAI-PE-SAMOM-00-000071-000

ATTENDED BY:	ORGANIZATION:
Aurora Courtney	exp Energy Services
Jeff Raun	Alaska LNG Project
Kevin Vakalis	Alaska Department of Transportation and Public Facilities (ADOTPF)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	ADOT&PF Overview	Jeff Raun provided a verbal overview of the 2015 Nikiski Onshore G&G program as proposed. Kevin Vakalis indicated submittal of project description and a request for amendment to Special Use Permit 950. 003 would be the appropriate method for obtaining approval from ADOT&PF to commence work in State right-of-way. EMALL submitted the permit amendment request on April 10, 2015.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING (MOM)

Project Name:	NEPA Air Quality Requirements
Meeting Type:	Meeting/Workshop
Meeting Subject:	Discussion with FERC and NRG reps regarding Alaska LNG air quality requirements
Date of Meeting:	02/25/2015
Document Control Number:	USAI-PE-SAMOM-00-000125-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Jim Pfeiffer	Alaska LNG Project
Karen Wuestenfeld	Alaska LNG Project
Norm Scott	Alaska LNG Project

### AGENDA ITEMS:

Item	Agenda Item	Description
1	NEPA Air Quality Requirements	<p>Discussion led by FERC where they relayed their initial expectations about air quality requirements for Alaska LNG, particularly the distinction between NEPA air requirements and Clean Air Act requirements that would be managed through the standard air-permitting processes. Key points of discussion were as follows.</p> <ul style="list-style-type: none"><li>- Will need to verify that ADEC is agreeable to 1 year of pre-construction monitoring for LNG;</li><li>- Need to take a look at the potential operations camps at GTP and LNG, and address issues regarding whether within fence line or ambient air; may consider ADEC policy on matter, but issue will need to be addressed in RR9;</li><li>- Terminal modeling- FERC will want to see all vessel emissions occurring within security zone for loading berths (assume 500 yd security zone if not established). This will differ from PSD modeling which only considers emissions from carriers while docked;</li><li>- Will need to make conservative vessel emission assumptions for modeling, not necessarily "worst case" for all attributes but approach needs good documentation- has resulted in iterations of info requests in previous projects;</li><li>- FERC generally defers to PSD criteria to inform FLM involvement (major permit action 100/300 km proximity). Neither FERC nor NRG had much experience with FLMs requesting information for Class II airsheds, but different projects garner different FLM attention;</li><li>- AK LNG may consider reviewing publicly available documents on NPS/USFWS/BLM parcels to see if management objects apply which could translate to AQRVs;</li><li>- In addition to specific modeling at the Terminal, FERC will be looking for a roll-up of all emissions for vessel operating in Alaska State Waters (i.e., 3 miles seaward). This includes construction and operation vessels. May decide to break down inventory by type of vessel, operating scenarios, etc.</li><li>- FERC mentioned the importance of engaging with and seeking concurrence from EPA, to ensure that EPA is aligned with agreed approaches with ADEC regarding air quality monitoring requirements, modeling assumptions etc.</li></ul>

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING (MOM)

Project Name:	Endangered Species Act Consultation for Field Study Incidental Harassment Authorization application		
Meeting Type:	Phone Call		
Meeting Subject:	Discuss Mechanics of Conducting ESA consultation within the IHA Process with NMFS		
Date of Meeting:	02/26/2015		
Document Control Number:	USAI-PE-SAMOM-00-000119-000		
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>		
Arianne Balsom	Federal Energy Regulatory Commission (FERC)		
Bill Miller	Natural Resources Group (NRG)		
Caryn Rea	Alaska LNG Project		
Claire Joseph	Alaska LNG Project		
Danny Laffoon	Federal Energy Regulatory Commission (FERC)		
Dee Dee Jones	Natural Resources Group (NRG)		
Elizabeth Dolezal	Natural Resources Group (NRG)		
James Martin	Federal Energy Regulatory Commission (FERC)		
Jennifer Lee	Natural Resources Group (NRG)		
Karen Wuestenfeld	Alaska LNG Project		
Maggie Suter	Federal Energy Regulatory Commission (FERC)		
Mike Timpson	Natural Resources Group (NRG)		
Tracy Brunner	Natural Resources Group (NRG)		
<b>AGENDA ITEMS:</b>			
Item	Agenda Item	Description	
1	Timely receipt of Incidental Harassment Authorization (IHA) for 2015 Cook Inlet G&G Activities	FERC had concerns about AK LNG's ability to receive authorization for IHA to support execution of G&G activities in 2015- data necessary for inclusion to Draft 2 Resource Reports.	
2	FERC suggested providing resources to NMFS to assist them in their analysis of effects on beluga whales	<b>Project</b> noted that industry has not done this as far as she was aware but we did commit to providing resources to prepare a Biological Assessment (BA) that feeds into the NEPA process required by NMFS for the IHA process. We are also preparing an EFH document for their use as well. Once received, the two NMFS entities (headquarters and regional) can move through the IHA process more readily.	
<b>ACTION ITEMS:</b>			
Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING (MOM)

Project Name:	Subsistence Study Resource Report 5 Requirements		
Meeting Type:	Phone Call		
Meeting Subject:	Discuss FERC expectations and requirements for AKLNG Project Subsistence Study		
Date of Meeting:	02/26/2015		
Document Control Number:	USAI-PE-SAMOM-00-000120-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Bill Miller	Natural Resources Group (NRG)		
Danny Laffoon	Federal Energy Regulatory Commission (FERC)		
James Martin	Federal Energy Regulatory Commission (FERC)		
John Pickering	PND Engineers Inc		
Karen Wuestenfeld	Alaska LNG Project		
Maggie Suter	Federal Energy Regulatory Commission (FERC)		
Mark Jennings	Alaska LNG Project		
Michael Nelson	Alaska LNG Project		
Patti Trocki	Natural Resources Group (NRG)		
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Subsistence Study Resource Report 5 Requirements	Teleconference to discuss requirements for RR5 Subsistence Study.	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING (MOM)

Project Name:	PHMSA Pipeline Technical Meeting
Meeting Type:	Meeting/Workshop
Meeting Subject:	Technical Discussions about the Mainline Pipeline
Date of Meeting:	03/02/2015
Document Control Number:	USAP-PP-SAMOM-10-000005-002
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Mario Macia	Alaska LNG Project
Rick Noecker	Alaska LNG Project
Sandra Barnett	Alaska LNG Project
Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Approach to PHMSA Engagement	Plan is for regular and ongoing communication with PHMSA including inviting PHMSA to observe key activities such as full scale testing. A draft plan for future engagement was presented and discussed.
2	Pipeline Details and pre-FEED Materials Activities	Grade and Design Factor Selection, strain demand methodology were reviewed. PHMSA requested all FST reports for review. Pipe materials specifications were also discussed. Also reviewed were weld development, Tensile Strain Capacity- model overview. Compressive Strain Capacity and Project-Specific Validation, a program that PHMSA is sponsoring was discussed. High integrity coating systems were discussed with a focus on three layer coating and cathodic protection.
3	Special Permits	Multiple SP's may be preferred due to the somewhat unrelated nature of the SP topics. PHMS notes that SP's would utilize the FERC EIS. SP requirement supercede 49CFR192 because SP's are supplementary to the code. SBD SPconditions will be in the FERC EIS. PHMSA has drafted a document " Guidance for Special Permit Applications on Providing Environmental Information" and a copy was provided to AKLNG.
4	Strain Based Design (SBD)	PHMSA clarified the requirements of the independent third party reviewer that will be required to review the SBD plans.
5	Construction Quality	A discussion about welder qualification /requalification and weld rejection rates was conducted. Alaska LNG discussed the defect acceptance criteria's impact on repair rates.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING (MOM)

Project Name:	Emergency Response and Vessel Assurance and Marine Operations Management
Meeting Type:	Meeting/Workshop
Meeting Subject:	Emergency Response and Vessel Assurance and Marine Operations Management
Date of Meeting:	03/02/2015
Document Control Number:	USAI-PE-SAMOM-00-000038-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Aaron Glidden	Port of Homer
Brenda Maskos	Alaska LNG Project
Bryan Hawkins	Port of Homer
Carey Meyer	City of Homer
Claire Joseph	Alaska LNG Project
Dan Miotke	City of Homer
Daniel Carnow	National Oceanic and Atmospheric Administration (NOAA)
Dennis Maguire	Alaska LNG Project
Diane Blumer	PRL
Greg Gowans	CH2M HILL
John Daly	R&M Consultants
John Marshall	ConocoPhillips
John Taylor	Alaska LNG Project
Kellen Stock	United States Coast Guard (USCG)
Kimberly Nielson	R&M Consultants
Marvin Yoder	City of Homer
Matt Clark	Port of Homer
Michael Thomas	United States Coast Guard (USCG)
Ron Hyde	PRL
Tony Joslyn	Southwest Alaska Pilots Association (SWAPA)
Will Hutt	City of Homer
William Albright	United States Coast Guard (USCG)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Introductions	Participants introduced themselves, organizations, and roles John Taylor presented safety moment
2	Emergency Response and Vessel Assurance (ERVA) and Marine Operations Management (MOM)	<p><b>Project</b> introduced the project scope and schedule. He described the "gated" process approach for the project. At a high level described the major components of the project including the Prudhoe Bay Unit / Point Thomson Unit interface (and not part of the project), the GTP, Pipeline and LNG facility. Stated the LNGc vessels are not part of the project.</p> <p><b>Project</b> introduced the concepts of ERVA and MOM</p> <p>Questions raised by participants included:</p> <ul style="list-style-type: none"><li>- Will there be significant cargo and hazmat transport over roadways?</li><li>- What is the life of the project?</li><li>- How many years is construction?</li><li>- How will equipment transported by vessel be restaged?</li></ul> <p>Comments made by participants included:</p> <ul style="list-style-type: none"><li>- USCG area of responsibility (AOR) for local unit includes North Cook Inlet to Kuskowim River</li></ul>

Item	Agenda Item	Description
		<ul style="list-style-type: none"> <li>- Budget cuts in legislature may affect services</li> <li>- Spill plans claim use of the same services; resources already committed is big challenge</li> <li>- SIMOPs planning is important</li> <li>- Opportunity for integrated emergency response plans - who is responsible for which type of response onshore/offshore</li> </ul>
3	Break-Out Session for Emergency Response and Vessel Assurance (ERVA) and Marine Operations Management	<p>ERVA / MOM group discussed various matters including:</p> <ul style="list-style-type: none"> <li>- HAZMAT for which HPD/HFD have limited capacity and funding;</li> <li>- security of vessels at anchor (HPD/USCG) the HPD has no on water authority and the CG has the authority but limited assets</li> <li>- marine firefighting raised by HFD; again limited resources but CG regulations specify vessel responsibility for such services</li> <li>- coordination of marine medical emergencies raised by HFD and discussed by others</li> <li>- communication capabilities that currently exist were discussed and the CG stated they do not use the same system as the city of Homer uses</li> </ul> <p>Questions raised by participants included:</p> <ul style="list-style-type: none"> <li>- What is anticipated increase in numbers of tugs, pilots, etc.</li> <li>- What are federally designated anchorages near Homer</li> </ul> <p>Comments made by participants included:</p> <ul style="list-style-type: none"> <li>- Closest hazmat team today is in Anchorage</li> <li>- Two motor vehicle inspectors and both in Sterling</li> <li>- ALMR - alaska land mobilization radio system facilitates talk groups with radio cell tower system for emergency response</li> <li>- All SAR goes through Kodiak</li> <li>- USCG must detain foreign flagged vessels if no firefighting capabilities upon arrival</li> <li>- Port of Homer supports harbor entrance; beyond that, vessel of opportunity to respond</li> <li>- All 911 calls go through Soldotna, then get routed to Homer where required</li> </ul>
4	Break-Out Session for Logistics	
5	Conclusion	<p>Dennis Maguire and John Taylor concluded session</p> <p>Participant(s) inquired about how to stay involved in Project</p> <ul style="list-style-type: none"> <li>- Alaska LNG representatives responded suggesting participation in FERC Pre-File public comment as well as updates on ak-lng.com</li> <li>- John Taylor discussed potential for future engagements with this group in order to develop ERVA and MOM plans</li> </ul>
6	Port of Homer Tour	<p>Port of Homer representatives took Alaska LNG representatives on a walking and driving tour of the Port facilities. Notes from this tour were included in the meeting minutes of the "Logistics" breakout session on 02-Mar-15. Photographs can be obtained from Brenda Maskos, John Marshall, and/or Greg Gowans.</p>



## MINUTES OF MEETING (MOM)

Project Name:	Logistics Breakout Session at Homer ERVA Meeting
Meeting Type:	Meeting/Workshop
Meeting Subject:	Logistics Breakout Session at Homer ERVA Meeting
Date of Meeting:	03/02/2015
Document Control Number:	USAI-PE-SAMOM-00-000039-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Brenda Maskos	Alaska LNG Project
Bryan Hawkins	Port of Homer
Carey Meyer	City of Homer
Diane Blumer	PRL
Greg Gowans	CH2M HILL
John Daly	R&M Consultants
John Marshall	ConocoPhillips
Kimberly Nielson	R&M Consultants
Marvin Yoder	City of Homer
Matt Clark	Port of Homer
Ron Hyde	PRL

**AGENDA ITEMS:**

Item	Agenda Item	Description
1	Project Overview	
2	Port of Homer Infrastructure and Capabilities	
3	Port of Homer Expansion Projects	
4	Port of Homer Operations	
5	Other	
6	References	



## MINUTES OF MEETING (MOM)

Project Name:	HDR Alaska Kickoff, Kenai Spur Highway Feasibility Study
Meeting Type:	Meeting/Workshop
Meeting Subject:	Contract kick-off meeting for HDR Alaska, Kenai Spur Highway Feasibility Study; ADOT&PF called-in for morning session; HDR participated morning and afternoon
Date of Meeting:	03/04/2015
Document Control Number:	USAL-PE-SAMOM-00-000003-000

ATTENDED BY:	ORGANIZATION:
Carol Snead	HDR
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)
Jeff Raun	Alaska LNG Project
Jennifer Witt	Alaska Department of Transportation and Public Facilities (ADOTPF)
Joel St. Aubin	Alaska Department of Transportation and Public Facilities (ADOTPF)
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)
Mark Dalton	HDR
Michael Ahart	Alaska LNG Project
Richard Raines	Alaska LNG Project
Scott Guttormson	Alaska LNG Project
Scott Wharton	HDR
Steve McDaniel	Alaska LNG Project

### AGENDA ITEMS:

Item	Agenda Item	Description
1	External Communications	HDR may engage directly with ADOT&PF staff on technical issues, advising AKLNG team (J. Raun) prior to meetings. Project team should communicate directly with Central Region where appropriate and copy Dave Bloom.
2	Public Involvement Plan	As part of feasibility level studies and environmental process moving forward, specific Public Involvement Plan (PIP) needed from HDR.
3	Traffic Data	ADOT&PF indicated traffic studies should accommodate forecast for proposed growth induced by industrial development.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Emergency Response Vessel Assurance & Marine Operations Management	
Meeting Type:	Meeting/Workshop	
Meeting Subject:	Emergency Response Vessel Assurance & Marine Operations Management	
Date of Meeting:	03/05/2015	
Document Control Number:	USAI-PE-SAMOM-00-000040-000	
<b>ATTENDED BY:</b>		
<b>ORGANIZATION:</b>		
CDR Shawn Decker	United States Coast Guard	
Claire Joseph	Alaska LNG Project	
Dennis Maguire	Alaska LNG Project	
Ed Stokes	Alaska LNG Project	
Eugene Chung	United States Coast Guard	
Frank Whipple	Amergent Techs	
Jerry Kichner	KSeas	
John Taylor	Alaska LNG Project	
LT Bridget Fitzgibbons	United States Coast Guard	
<b>AGENDA ITEMS:</b>		
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>
1	Introductions & Safety Moment	Alaska LNG Project representatives were part of the Marine Team. First introductions to: - CDR Decker is responsible for emergency response, vessels, emergency management, and pollution response. - LT Fitzgibbons is responsible for environment, pollution, SAR, and the response center.  John Taylor presented a safety moment about avalanches.
2	Project Overview	Ed Stokes provided a project overview (including project scope and schedule) and described the role of the marine team in supporting the project
3	ERVA and MOM	Dennis Maguire presented an introduction to the project's planned emergency response and vessel assurance (ERVA) program and marine operations management (MOM).  USCG agreed that increased vessel traffic during construction is an important topic. CDR Decker referred to a recent presentation from ASAP regarding barging at the Alaska Eskimo Whaling Commission (AEWC) meeting.  CDR Decker expressed appreciation that the Project was being proactive in engaging regarding this topic.  CDR Decker recommended starting with review of existing regulatory requirements for vessels carrying cargo coming into waters - requirements for spill response/pollution/etc.  CDR Decker recommended that the Project reach out to Alaska Marine Exchange, which provides service of vessel tracking and monitoring via AIS. USCG is the main benefactor of the model; model has been vetted and approved by the USCG. Captain Ed Page is the point of contact.  Group discussed need for communication of project scope so that the USCG could assess resourcing. CDR Decker shared that Sector Anchorage and Sector Juneau are the only two sectors in the USCG which are growing in staff  LT Chung commented that USCG is working to make Cook Inlet Ice Guidelines regulation (CFR).

Item	Agenda Item	Description
4	Forward Plans	<p>CDR Decker supported the idea of regular meetings from March - August so that the project could develop its Pre-FEED deliverable on ERVA/MOM. Ed Stokes responded that the Project would reach out to schedule meetings when content was ready for discussion.</p> <p>CDR Decker requested that the Project focus discussions with the management at Sector Anchorage rather than reaching out to individual units.</p> <p>LT Fitzgibbons offered to provide Alaska LNG team with tour of the command center for emergency response. Alaska LNG team requested to please visit command center during next visit.</p> <p>Group agreed that LT Chung and Claire Joseph would be the single points of contact between the two organizations.</p>

	PROJECT OVERVIEW TO ADEC AIR QUALITY DIRECTOR	USAI-PE-SAMOM-00-000029-000
	PUBLIC	PAGE 1 OF 2

MEETING DETAILS			
<b>Sub-Project Name</b>	All Segments	<b>Date of Meeting</b>	3/6/15
<b>Meeting Subject</b>	Project Overview and Initial Agency Feedback	<b>Location</b>	Telecon

ATTENDEES			
Attended By	Organization	Attended By	Organization
Alice Edwards	ADEC	John Kuterbach	ADEC
Fathima (Zee) Siddeek	ADEC	Ruben Medrano	Alaska LNG Project
Jim Pfeiffer	Alaska LNG Project		

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	AKLNG provided project overview to ADEC Air Quality Director using publicly available documents (recent legislative briefings, etc)	Pfeiffer	13:00
2	<p>ADEC Air Quality Program Leadership provided initial thoughts about Project:</p> <p>ADEC interested in general location of compressor stations and when more certainty of location may be available, general answer provided, no need for specific follow-up;</p> <p>Schedule for project permitting occurs during scheduled (but possibly delayed) Alaska update to EPA BART (Best Available Retrofit Technology) Plan for regional haze- AK LNG major facilities will be subject to BACT rather than BART, but could be included in broader conversation regarding visibility cumulative effects. BART Plan will be open for public comment and Federal Land Manager (FLM) review. Proximity of Nikiski operations to Tuxedni NWR likely to result in FLM consultation. USFWS and USPS have central air experts in Denver, but better to allow local FLMs to provide conduit to the central resources (John Notar/Tim Allen). In general, ADEC felt that visibility impacts in the vicinity of project facilities has been to date minimal;</p> <p>Agency Resource Considerations: Availability of ADEC Permitting Resources may be challenged during the time frame for permitting by the retirement of senior/long-tenured staff; Alan Schuler identified as one of those resources, who typically is involved with FLM consultation (as well as modeling protocols); Patrick Dunn, Anchorage Construction Permits Supervisor, likely a key person to have involved as plans progress (less likely to be in near-term retirement pool); Similarity of facilities (i.e., pump stations) will help reduce effort required; Staging/front-end loading of permit activities (early modeling protocols, applications, etc) will be very helpful. Keeping ADEC Air Quality updated on overall project plans and timing very desirable- tough for ADEC to ramp-up staff, easy to overwhelm;</p> <p>No facilities in the Fairbanks PM non-attainment area, but effects of construction such as logistics, pipe coating facilities etc may be subject to conformity review to ensure the activities do not interfere with attainment strategy;</p> <p>Broad use of incineration likely to be a challenge, given EPA's requirements for new incinerators; Wildfires could interfere with ability to conduct open burning of slash/dunnage/pallets/woodwaste;</p>	Kuterbach/Edwards	13:45

2 cont'd	Potential misalignment with Clean Air Act/NEPA air modeling- seeing more NEPA modeling especially for BLM, can create divergent/disharmonious results that are difficult to document in a stationary source air permit's Technical Analysis Report (TAR); In general: Follow-up conversations highly desirable as project plans progress	Kuterbach/Edwards	13:45
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**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date
1	N/A		

Attachments:

# MEETING AGENDA

<b>Meeting Subject:</b>	Non-Confidential Alaska LNG Project Overview with the Executive State Gas Team		
<b>Location:</b>	Project Office – Remington Square, Houston		
<b>Meeting Details</b>	March 9, 2015 9.00 – 4.00 (CDT)		
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Craig Richards	State of Alaska	Steve Butt	AKLNG – Sr Proj Mgr
Mark Myers	State of Alaska	Lydia Johnson	AKLNG – Tech Mgr
Randy Hoffbeck	State of Alaska	Mike Britton	AKNLG – LNG Mgr
Marty Rutherford	State of Alaska	Mark Scheffler	AKNLG – Proj Service Mgr
Dona Keppers	State of Alaska	Robert Rood	AKLNG – GTP Mgr
Elena Romendahl	State of Alaska	Pat Metcalf	AKLNG – Systems Mgr
Lennie	State of Alaska	Jack Beattie	AKLNG - Pipeline Mgr
Steve Wright	State of Alaska	Ed Stokes	AKLNG - Marine Mgr
Audie Setters	State of Alaska	Steve Barakis	AKLNG – PBU Interface
Dave DeGruyter	State of Alaska	Michael Zhang	AKLNG – Pipeline Eng Mgr
Steve Swaffield	State of Alaska	Karen Wuestenfeld	AKLNG – EIS Lead
Esther Temple	State of Alaska	Nick Huber	AKLNG – Venture Lead
Nick Fulford	State of Alaska	Jim McDougal	AKLNG – Sub contractor
Deepa Poduval	State of Alaska	Bill McMahon	EM – Fiscals
Ken Minesinger	State of Alaska	Hans Neidig	EM – EAGR
Fritz Krusen	AGDC (PSC)	Ned Chapman	EM Law
Vincent Lee	TransCanada (ManCom)	John Granmayeh	CP Law
Francis McMullin	TransCanada	Saida Barvarz	BP Law
Harry Crofton	ConocoPhillips (PSC)	John Horstkoetter	BP (PSC)

## AGENDA ITEMS:

<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>	<u>Times</u>
Project Overview	Steve Butt	30 min	9.00 – 9.00
GTP Overview	Robert Rood	45 min	9.30 – 10.30
LNG Overview	Mike Britton	45 min	10.30 – 11.15
Marine Overview	Ed Stokes	30 min	11.15 - 11.45
Main Pipeline Overview	Jack Beattie / Michael Zhang	60 min	12.30 – 1.30
Pre-FEED Deliverables	Pat Metcalf	15 min	1.45 – 2.00
Technical Team Overview	Lydia Johnson	30 min	2.00 – 2.30
Project Services Team Overview	Mark Scheffler	30 min	2.30 – 3.00
SSHE Team overview	Charlie Kominas	30 min	3.15 – 3.45
Wrap up	Steve Butt	15 min	3.45 – 4.00



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Waterway Suitability Assessment Information Meeting - Technical Assessment Group
Meeting Type:	Meeting/Workshop
Meeting Subject:	Waterway Suitability Assessment Information Meeting - Technical Assessment Group
Date of Meeting:	03/31/2015
Document Control Number:	USAI-PE-SAMOM-00-000042-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Alex Sweeney	Crowley Maritime Corporation
Amy Gilson	Nuka Research and Planning Group
Aurora Courtney	exp Energy Services
Brad Fuller	AcuTech
Bruce Harland	Crowley Maritime Corporation
Bryan Hawkins	Port of Homer
Chad Fullmer	Alaska Department of Military and Veteran's Affairs
Claire Joseph	Alaska LNG Project
Cody Howard	United States Coast Guard
Dan Belanger	Alaska Department of Military and Veteran's Affairs
Dave Martin	United Cook Inlet Drift Fishermen's Association
Dennis Maguire	Alaska LNG Project
Eric Vogel	United States Coast Guard
Eugene Chung	United States Coast Guard
George Lowery	TOTE
Ginny Litchfield	Alaska Department of Fish and Game
Hector Cintron	United States Coast Guard
James Baisden	Kenai Peninsula Borough
Janet Post	United States Army Corps of Engineers
John Farthing	United States Coast Guard
John Kotula	Alaska Department of Environmental Conservation
Kim Fox	Alaska LNG Project
Luke Hasenbank	Alamar
Lydia Johnson	Alaska LNG Project
Mary Romero	United States Army Corps of Engineers
Matt Mitchell	United States Coast Guard
Michael Munger	Cook Inlet Regional Citizens Advisory Council
Robert Davis	United States Coast Guard
Russell Hazlett	United States Coast Guard
Scott Walden	Kenai Peninsula Borough
Sierra Fletcher	Nuka Research and Planning Group
Steve Calabrese	AcuTech
Sven Christensen	Hartley Marine
Tim Robertson	Nuka Research and Planning Group
Tim Smith	National Oceanic and Atmospheric Administration
Tom Burgess	United States Department of Homeland Security
William Wolverton	ConocoPhillips

**AGENDA ITEMS:**

<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>
1	Welcome and Purpose	USCG welcomed the group and provided overview of purpose of meeting. Participants introduced themselves and their roles/ organizations.
2	Alaska LNG Project Overview	Lydia Johnson presented an overview of the Alaska LNG Project.
3	Introduction to the Waterway Suitability Assessment (WSA) Process	Brad Fuller provided overview of the WSA process.
4	Waterway Characterization	Tim Robertson provided overview of the characterization of the waterway (Cook Inlet) to be used by the LNG Carriers during Project operations.
5	Cooperation with Drift Fishing Vessels	David Martin (UCIDA) commented that he represents more than 500 vessels and fishermen that participate in drift fishing, and that they are interested in developing cooperative relationship that addresses the needs of the fishing and LNG industries.
6	Question about Pipeline Route	Chad Fullmer asked why there are two pipeline crossings across Cook Inlet, and whether the pipeline will be built above ground, or will be buried. Lydia Johnson responded that the Project is studying potential crossings of Cook Inlet and that only one route will be selected. She confirmed that the pipeline will be buried for most of the route, but there will be some areas above ground.
7	Question about Facility Siting and Hunting	Cody Howard asked if the proposed liquefaction facility is in a hunting area used by Alaska Natives. Claire Joseph responded that social and environmental impacts are being addressed via the NEPA process (including FERC Pre-Filing).
8	Question about Vessels in Kachemak Bay	Dan Belanger asked if a maximum number of vessels using the anchorage behind the Homer Spit has been established. It was confirmed that anchorages have not been established.
9	Conclusion	John Farthing provided the participants with an overview of the USCG HomePort site. CDR Cintron thanked everyone for their participation and indicated that the USCG would provide further communication. Participants were encouraged to provide comments/concerns in advance of WSA workshop in May.



## MINUTES OF MEETING (MOM)

Project Name:	Gravel Summit Workshop - BLM Update to CYRMP
Meeting Type:	Meeting/Workshop
Meeting Subject:	BLM is soliciting input from stakeholders to update their Central Yukon Resource Management Plan - input related to gravel resource availability and proposed stipulations for mining & reclamation
Date of Meeting:	03/31/2015
Document Control Number:	USAI-PE-SAMOM-00-000126-000

ATTENDED BY:	ORGANIZATION:
Amanda Willingham	Alaska Department of Natural Resources (ADNR)
Annette Nauheim	Alyeska Pipeline Service Company
Caryn Rea	Alaska LNG Project
Danny Laffoon	Federal Energy Regulatory Commission (FERC)
Darrel Vandeweg	BLM Central Yukon Field Office
Dave Mushovic	BLM, Alaska State Office
David Miller	Alaska Department of Transportation and Public Facilities (ADOTPF)
Deanne Stevens	Alaska Department of Natural Resources (ADNR)
Earle Williams	BLM, Alaska State Office
Ed Klimasauskas	United States Bureau of Land Management Office of Pipeline Monitoring (JPO)
Frank Duncklee	Alyeska Pipeline Service Company
Heidi Schoppenhorst	Wiseman Community Association
Henry Cole	Alaska Department of Transportation and Public Facilities (ADOTPF)
Jack Reakoff	Wiseman Community Association
Jason Sakalaskas	Alaska Department of Transportation and Public Facilities (ADOTPF)
Jeanie Cole	BLM Central Yukon Field Office
Julie Smith	ADNR, Public Information Center
Kahlil Wilson	Alaska Department of Transportation and Public Facilities (ADOTPF)
Ken Wilson	Alyeska Pipeline Service Company
Kevin Maxwell	Alaska Department of Transportation and Public Facilities (ADOTPF)
Mary Romero	United States Army Corps of Engineers (USACE)
Nolan Heath	United States Bureau of Land Management Office of Pipeline Monitoring (JPO)
Patty Burns	ADNR, Division of Forestry
Peter Nagel	Alyeska Pipeline Service Company
Rob Ellefson	BLM, Alaska State Office
Ryan Anderson	Alaska Department of Transportation and Public Facilities (ADOTPF)
Shelly Jacobson	BLM Central Yukon Field Office
Tim Hammond	BLM Central Yukon Field Office
Trent Hubbard	ADNR, Division of Geological and Geophysical Surveys

### AGENDA ITEMS:

Item	Agenda Item	Description
1	See attached for meeting minutes prepared by BLM	

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## **BLM GRAVEL SUMMIT - Minerals Materials Management in the Dalton Corridor, March 31, 2015: 8:30am-4:30pm**

Action items in RED

**PowerPoint Presentation: Rob Ellefson, BLM Gravel Summit - Intro**

-introductions

-Rob overview of objectives of meeting, corridor, existing Utility Corridor ROD

**PowerPoint Presentation: Shelly Jacobson, BLM The Dalton Highway A Brief History**

Shelly discussed history of Dalton Highway

Described the difference between commonly used terms:

- Utility Corridor as described in public land order (PLO) 5150
- Trans-Alaska Pipeline (TAPs) right-of-way (54 feet),
- Dalton Highway right-of-way 'Corridor',
- five-mile corridor closed to off-highway vehicle (OHV) use by the State,
- Alaska Department of Fish and Game (ADF&G) no firearm use Corridor.

Mostly talking about BLM planning corridor established by PLO 5150. Talked about history of corridor and road, issues, land ownership, development nodes etc.

**PowerPoint Presentation: Tim Hammond, BLM Gravel Summit - Intro**

Tim did presentation on RMP process purpose and required planning decisions

Discussed possible alternatives under the RMP, in general: Terms and conditions, Areas that could be opened or closed to Mineral Material development

**PowerPoint Presentation: Division of Geological and Geophysical Surveys (DGGS) -  
DeAnne Stevens, Trent Hubbard Dalton Highway, Geology Overview.**

Existing resources and potential

Surface geology (Trent DDGS):

- southern corridor generally south of mile post (MP) 150, soft weathered bedrock covered with loess, limited sand and gravel
- north of ~MP 150 (Prospect Creek) to North of the Brooks Range ~MP 275: glacial and glaciofluvial
  - MP150-175: older glacial deposits, highly weathered, isolated sand and gravel, limited and unexplored until you move into the Koyukuk Drainage.
  - MP175-275 glacial and flaciofluvial
- North of 275 to coastal plain marine and lacustrine sediments and poor quality as construction/engineering resource

Three mapping studies going on now by DDGS

Engineering maps done for TAPs; confidential material, DDGS has access and can distill information from data if needed by BLM.

-Available Data DGGS finds useful includes:

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- Guide Book 4 (Brown and Kreig, 1983) has a lot of info about corridor (<http://pubs.dggs.alaska.gov/webpubs/dggs/gb/text/gb004.pdf>)
  - Tom Hamilton (Hamilton, T.D.) has a variety of books on the area. USGS/ADGGS/Contract Geologist
  - Kreig and Reger (Geologic Report 66), 1982, DDGS
  - all above studies available on DDGS website
- BLM needs the engineering geology data. BLM has taps borehole data. **DGGS has borehole data on Alaska Natural Gas Transportation System ANGTS** and other data.
- Old data on older gas line projects may be available from Alaska Stand Alone Pipeline (ASAP)
- Trans Canada part of Alaska Liquefied Natural Gas (LNG) project, Alaska LNG has Trans-Canada data**
- Geophysical data is of interest to BLM also

**PowerPoint Presentation: Alaska Department of Transportation and Public Facilities (ADOT&PF) - Kevin Maxwell Dalton Highway Materials from construction standpoint**

3 types of materials are needed for road bed construction, generally from different sources:

1. Bottom 4-6 ft: 'Leveling Fill', mineral soil w/little organic and no ice (dry), needs to be comp-actable, called **Borrow material** (i.e., – any quality meeting the specifications for levelling fill)
2. Middle 3 ft: '**Select**' material, sand and gravel with low silt content. Non-frost susceptible
3. Top 6" (?) **Crush Material Layer**: -crushed material used for gravel surface road or subsurface for paved. Needs to be tough/durable to take loading. Needs to be compactable (that's why crushed) with up to 20% silt, and at least 5-10% greater than 1" size. Can have substantial amount of silt; primary need is tough gravel that is crushed.

**Material sources**

-It is ideal to have source within project limits; every 10 miles w/in the project length. Partly cost and partly logistics of managing traffic. Time to haul material must be short enough to complete annual construction segments – haul too far and individual phases take multiple years. Project haulage traffic has wear and tear effect on road. Keeping haul w/in project reduces wear and tear on other parts of the road

**Borrow:** Southern portion of BLM corridor often find borrow material in soft bedrock Yukon R. (MP56 ) to MP 175. Northern half (MP 175 north) of corridor borrow pits are sited in alluvial material. Alluvial fans in the north may have silt contents of 30% (which is too much) so a singular source to supply borrow may have high silt content. Gravel may be quite soft so typically does not make good crushable source.

**Select Materials:** For select material look for places with active river action w/in floodplain or alluvial terraces (old floodplains). More durable materials, with less silt are needed e.g., Deitrich River. Also need a gravel bar large enough to accommodate a pit. May also be able to get crushable source if the gravel is hard/durable enough and in high enough proportions.

Floodplain sources tend to be self-reclaiming. Want work on bar isolated from active channel. Might dig down to water level, keep source isolated in island until work is done. Another benefit is if hole is deep enough to stay thawed during winter, may create overwintering habitat for fish. Once work is done, open channel upstream and

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downstream of pit and allow river to start reclaiming. Best management practice (BMP) is to locate material site at downstream point of island and work upstream.

Negatives in working in active channel: River can breach pit and move its channel. One example is a high value sand stockpile at MP 222.7 with 60,000 yards or more, stranded w/in the Dietrich River channel for at least 20 years. DOT has an upcoming project that might be able to use this material soon if river conditions and permitting allows.

**Crushable** material out of alluvial site: Easier to get from upland sites, but not a prevalent as active channel sources. Some projects might have no alluvial terraces w/in project boundaries.

#### Present Maps:

#### Potential Road Projects in Utility Corridor

Remember that these are anticipated projects, and not necessarily already funded/authorized through the State process

- MP 55-90 Reconstruction (Yukon River to Finger Mt.): **2020** and beyond for starting date
- Dalton HWY MP 109-144 Rehabilitation [Old Man Camp to Jim river]: **2019** possible starting date
- Dalton HWY MP 209-235 Reconstruction [Dietrich Camp to Chandalar]: Start date likely **2017**
- Dalton HWY MP 235-247 Reconstruction (Chandalar - Atigun): **2020** and beyond for starting date
- Dalton HWY MP 274-289 Rehabilitation [Toolik]: **2015**
- Dalton HWY MP 289-305 Rehabilitation: **2017**
- New Yukon River Bridge Reconnaissance Study: **2015**
- Roche Moutonnée Bridge Replacement (MP265): **2016**

General sources of material w/in corridor; these were displayed on maps.

#### 3 geologic units

- green color on map: alluvial fans, good borrow, prevalent in north part of corridor, but virtually absent in the south. But south has soft bedrock sources. Can find borrow almost anywhere in the corridor.
- magenta color on map: active channel. many active channels, but need a large enough island and a way to get a road to it. Also, permitting is more complicated if the river is navigable.
  - red dots on map: hard bedrock - - Some of these may also work as riprap sites. High quality resources for durable riprap are generally limited in corridor.

#### Questions

Hard bedrock sources are those referred to as quarries? Yes. Usually requires blasting.

- Southern sites w/in 30 to 40 miles of Yukon River crossing, can these be used for riprap? Not sure, but it would be a good place to sample for it. Sometimes bring riprap up from Fairbanks when bringing equipment up from Fairbanks
- Riprap is unique product and when needed is essential, also use smaller amounts, so more practical to haul than sand or gravel
- What kind of permitting is BLM doing for sites determined navigable? Access road only

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- Timeline for recharging floodplain material sites? Won't refill pit with material that could be mined later on w/in lifetime, but can restore the river to its normal configuration in shorter timeframe.
- How are road sections planned and funded, keeping in mind haul length and known sources? How are they planned and then how are they funded? Magnitude of job, how much new material, how will it be mined, will be used to develop estimate for job to get funding from legislature. But contractor might come in with lower or high bids. Will contractor be directed by DOT to plan work to fit with the estimate from legislature?  
**WILL COVER LATER UNDER USER DISCUSSION**
- Is material cost is small part of total cost? What is the royalty cost? BLM free, DNR 50 cents per yard. Major cost is hauling. Royalty cost as part of overall project is typically very small, but depends on where the material comes from.

**Return to PowerPoint Presentation: DGGS - DeAnne Stevens, Trent Hubbard Dalton Highway, Bedrock geology and potential for material sources within 1 mile of Dalton Highway**

DeAnne - Bedrock Geology

DISCLAIMER: Data presented is not a final product and is really meant as an informal discussion. Data quality is affected by poor scale of geologic mapping (regional vs. local), map edge 'border faults', and lack of detailed information.

Generally:

- bedrock sources south of Brooks Range metamorphosed (fractured, baked), north of Brooks Range less processed and softer.
- detailed geological maps available for portions of corridors in PowerPoint
- Generalized bedrock categories: presented in decreasing quality of material for road purposes (colors refer to map display)
  - Igneous - red - riprap
  - Carbonate - blue -riprap
  - Quartz rich - gold
  - Mixed beds - yellow - potentially useful
  - Generally unsuitable or unknown - purple

Potential sources of riprap

Livengood to Bettles quad 2 sites existing.

Bettles Quad - one crushed stone riprap site; lots of other potential sites

Upper Bettles Quad - less potential

Wiseman Quad - 2 quarries in this quad, but limited

Chandalar Quad - some potential, but more limited

Galbraith Lake - fewer and fewer bedrock sources as you head north.

Approximate mile marker where bedrock sources drop out dramatically MP275, near Galbraith Lake. MP 355 is approximate location of the last mappable unit of bedrock w/in 1 mile of highway.

More detailed info needed includes material related parameters e.g., info on weathering, joints, engineering information. Landform analysis needed.

Questions

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Does DGGS communicate with Samantha Carroll (Large Project Coordinator with ADNR)? Yes go through Samantha and she will distribute to DGGS.

Is MP 261 potentially best source of Riprap bedrock? At times this material is exported all the way to Prudhoe Bay due to its durability? Yes. BLM wants to make this material available/noted high interest in this material.

At what point do you chose to change material specifications vs. hauling from a long distance? The answer is complicated. Rock must have the quality needed. Try to design projects to take advantage of what is locally available, but don't always know what is available w/out testing.

How much processing of materials is acceptable to ask for from the contractor? If you do enough processing, can we get all 3 materials out of one source? Does not make sense to process a high value material resource to make common borrow. Agencies prefer to use the source for its best value. Processing can create other issues like water quality or the amount of water needed for processing.

BLM would like to know what is the tradeoff between more processing vs approving more material sites. BLM would like to get past the first reaction that all that matters is cost and be able to discuss other options.

Cost is of concern, because if one project is very expensive, it may preclude other projects. There is limited funding from the legislature.

DOT sets parameters for bidding. How does DOT set these parameters? What level of exploration is done before going out for bids? Typically DOT will do some drilling before and want high level of confidence that material exists. But contractor can choose not to use the suggested sites.

If contractor chooses to use other sites, then they need permit from BLM for these other sites. This is a concern and a workload for BLM.

Does DOT puts together contract packages with assumptions that materials are available on BLM-managed lands? Yes. Ideally DOT will have permitting for these material sites well in process before going out for bids on a project.

**PowerPoint Presentation: Rob Ellefson BLM Gravel Summit - Current Use and Management, Modified** (presentation was modified following meeting for numerical clarity, notes below are from presented slides)

Within the Utility Corridor there are:

- 52 current material sites (existing, approved but not used yet)
  - 25 sand and gravel
  - 20 rock pits
    - 5 riprap
    - 15 common rock
- 7 exploration sites - application for new material site, tentatively platted, may being drilled
- 74 BLM permits are currently being managed. - Spreadsheets on walls

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- 49 ADOT Free Use Permits (FUP)
- 23 Alyeska Pipeline Services Co. (APSC)
- 4 exploration permits
- 2 contract sales (cost recovery)

Currently there are two major users - ADOT and APSC

Sites can have more than one authorization. There are currently 20 dual use sites. These have their own issues such control and ownership of produced materials (possibility of theft/trespass), responsibility for trash and other items onsite, contractors working for both APSC/DOT at different times in same pit.

Amount of Material used:

ADOT - approximately 1.5 million cubic yards (over 8 yrs)

APSC - 380,000 cubic yards (10 yrs)

Other - 22,000 cubic yards (8 yrs)

Question: Do these numbers include materials from State owned material sites? There are a couple of state sites, Marion Creek, Coldfoot, etc. that are not included. State DOT has 30-31 BLM sites along the corridor. Not all are being used. Some are very small.

Discussion of APSC access roads, maintenance of access, and erosion control.

Fill material for old camp pads, could be resold. Can things that are decommissioned be recycled rather than just reclaimed? Can APSC resell materials for repurposing rather than reclaiming?

- 2.5 million cubic yards mined from BLM since 2004
- 2-4 material sites active each year
- Site authorized on average every five miles on Dalton. This is on par with Elliott and Richardson highways.
- Of 45 authorized sites, at least 18 have seen no production during the 10 year permit period. Some sites have not been used for decades. BLM would like to discuss this more and give consideration to closing some of these sites

### **Future use in Corridor**

Comment: **Need to go back and look at numbers during pipeline and road construction to get a better idea of what is needed for future projects like ASAP and AK LNG.** Generally, commenter feels that these projects (as well as TAPS initially) underestimated amount of gravel needed and impacts of the gravel extraction.

APSC use of materials is pretty level now. Do not anticipate large surges in needs, unless there is a large flood event.

**Was there an analysis of gravel use for TAPS 30 year ROW renewal?** This would be a good source of data to check on.

**ADOT Comments on their future use/needs.**

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**-Ryan Anderson:** Most upcoming projects are federal aid highway projects. The Road realignment project to deal with debris flow will occur from 2017-2021 for the whole project.

What is the legislative list of projects? State transportation improvement program (STIP) available online. STIP (2016-2019) showing 11 projects on Dalton. DOT has a 10 year plan with 19 projects on Dalton. The DOT plan is internal, but not proprietary. Have map with projects to hand out.

2015 will be a record construction year. Most projects are federal funds with state matching funds. There is \$1 billion in Federal and State matching funds for 2015 road construction Statewide. Mostly construction funds with little State-matching maintenance funding

Question: If bridgework, cost is high, but mineral materials is minimal. Is there a way to pull this cost out?

Good cost estimate is not available until final design. Have general estimates for National Environmental Policy Act (NEPA) analysis. Three years before project starts, enough data to decide if there is a need to ask for additional pits. Three year lead time is required for identifying additional material needs.

What is a major realignment of the Dalton Highway? Refer to it as modernizing, adjusting grade and curves to meet safety guidelines. These are not considered major realignments, they are considered minor realignments. Also DOT is focusing on reducing operation costs in the future and keeping traffic moving, such as raising grade of road near Deadhorse to prevent problems due to drifting snow and sagging. This will take a lot of material, highway centerline might move 10 feet for many, many miles.

Dalton 274-289 is currently only construction work on BLM-managed portion of the corridor.

MP 265 bridge replacement

MP 209-235 in the design phase, with actual project some years away from construction.

What are anticipated needs for repaving and maintenance? Will there be increased need for materials to maintain paved road vs. gravel?. Asphalt can be recycled. Asphalt has higher quality requirements, so availability of material sources is more important for paved vs gravel. Generally will use more aggregate to maintain gravel road vs. apaved road. Lose an inch per year on gravel roads. When roads are paved, DOT improves the road bed to reduce future maintenance.

Does DOT track amount of material used in construction vs. maintenance? DOT maintenance does track usage of the materials for accounting purposes. Need to talk to Maintenance and Operations (M&O). Not sure if they can use those numbers to project future needs. There are orders of magnitude more materials needed for construction vs maintenance.

DOT is large organization divided into many divisions, hard to know who at DOT to talk to.

DOT roughly estimates that 4-6 additional new material sites might be needed to support currently known projects over next decade.

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Dillon(?) or Kevin discussion of future projects. **Can share notes with Rob.**

BLM used to have quarterly meetings with Office of Pipeline Management, then less frequently, but more participants from other agencies/users. **Suggest these meetings be held again in the spring, to help avoid surprises and allow for discussion between all stakeholders.**

DOT said it is useful to hear from the perspective of BLM what are we trying to do? This would help others know what info is needed?

BLM planning questions and management issues:

- Is there even enough mineral material in the corridor to meet future needs?
- How to balance gravel use with other uses, allow people to plan ahead rather than to react
- ID sensitive areas where BLM does not want pits, e.g., Sukakpak Mt area
- Need plan consistency for permitting
- BLM is hoping to do some zoning where it would not allow pits. Where should these areas be located?
- How to contrast pros/cons of having lengthy sections w/out pits
- Understanding what is normal or prudent by industry vs. what is discretionary.
- Focus on good projects vs profitability for individual contractors, especially for public works.
- BLM wants to participate in the STIP more.
- Standard stipulations are needed for material sites
- Information is needed for cumulative impact analysis and reasonable foreseeable future actions
- BLM needs to support existing authorizations like road and TAPs, so need to know how much materials is needed in the foreseeable future for maintenance
- BLM can consider right-of-way avoidance areas, which make a higher bar for permit approval, but does not totally preclude rights-of-way.
- BLM can live with estimates for 10 year period vs. annual
- Does DOT and APSC coordinate their needs so they are not each getting pits when one could be shared?
- BLM can use GIS analysis to inform past, present, and future uses
- Did the older projects gas pipeline that never came about do a RFD for gravel and is this data available? Never issued authorizations for material sites, applicants were never able to come in with a need. These have been vacated? They would need to do supplemental EIS for materials extraction.
- ASAP is doing a supplemental environmental impact statement that includes material sites locations and quantities.
- **BLM and the State need to work together to determine navigability on rivers crossing the highway corridor, to clarify ownership of instream resources that may be available for mining.**
- BLM would like to consider projects with secondary purpose, such as creating a float pond at Wiseman airport while getting materials.



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ADOT major issue: the time it takes to authorize a BLM pit for State use, both the initial authorization (general) and the specific operator's authorization, seems onerous.

**Pete Nagle Alyeska Pipeline Services (APSC) Lands Manager**

- APSC did historic analysis going back to 2000 and came up with 30,000 cy as average use of materials over that 13 year period. Atigun and Galbraith (old site) were largest contributors.
- This estimate of 30,000 to 50,000 cy annually is for maintenance and emergency use.
- Biggest issue is maintaining diversity of access to pits; don't forecast asking for new sites.
- APSC has one pit about every 12 miles on average.
- On state lands, the sites are pre-designated, so no need to ask for new materials, only sign contract. No need to be advertised anymore. Each operator has a separate Mining and Reclamation Plan (MRP) for each site developed.
- Maybe BLM can designate sites in the RMP similar to what DNR does? **Rob can discuss later. Typically BLM has done negotiated sale, but there are other options**

**Questions**

**Does APSC see changing conditions influencing future needs?** Will get back to BLM on this later.

For Pre designated state pits is there a standing reclamation plan or does APSC do a plan? Any site with active contract as of 2001 had a broad brush designation of pits available to sell out of. If DNR creates a new site, it needs to be redesignated. Each contract has its own mining and reclamation plans.

What is the state doing to address the issue of noxious and invasive plants in their pits? Dept. of Agriculture has a weed-free certification program to certify pits as weed-free. DNR is starting to include invasive species monitoring in contracts.

BLM has been documenting spread of noxious and invasive plants to the north. It is trying to figure out how to get a handle on this problem both in RMP and on permits.

Issue – If there are invasive species in a pit could take several years to clean up an infested pit. If APSC is not allowed to use the pit until cleaned up, this would be huge impact on TAPs. APSC needs continued access to their existing pits.

**BLM's weed strategy is to treat pits where it is still possible to eradicate or control invasive species. There are 11 such sites. BLM may try herbicide application on one pit which is far from water this year. This would be the first time BLM has applied for a pesticide application permit.**

BLM would like ideas from everyone on how to control invasive species and best management practices.

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Economist Magazine – An article titled Not Weeds published March 28, 2015 print edition about the British view of invasive plant species in Britain. Article Discusses: “do interloping plant species from other lands actually cause environmental damage by outcompeting the locals?”

Does APSC currently have best management practices (BMPs) in place for dealing with invasive species? There is some mention of it in Alyeska field identification guide to help BLM with inventory. Not sure if there are BMPs.

State of Alaska does have a list of prohibited noxious species by law developed by the. Dept. of Agriculture. It also has a list of species that are problematic, but not prohibited. Plant materials center has more information on these issues.

If APSC goes to a site to get materials and find it covered with bird vetch, what is the procedure to be followed? **Not sure if they have guidelines in place or not.**

BMPs are already available from lower 48 states.

**The permitting process is so onerous that APSC has not been able to spray. APSC has hit a brick wall. They would like to consider herbicide use.**

In Fairbanks, several agencies (Corp of Engineers, Alaska Railroad) use herbicides, but **APSC** has not been able to.

BLMs concern is how to communicate with subsistence users on use of herbicide. It is an emotional issue and the technical information hard to understand. BLM proposed limited use of herbicides on the Dalton Highway in the environmental assessment because it is controversial, but also wanted to analyze the potential impacts. BLM stipulations include cutting and mowing before seeding, weed pulls on strategic river crossings, washing equipment.

- One possible best management practice from lower 48 is vehicle washing stations. So far BLM has said these are not manageable, but maybe it needs to be considered.
- All APSC sites are dual use with DOT except for 3.
- Does DOT have BMPs? Yes, vehicles are washed before coming on site; It has a BMP guide put together with cooperative extension for right-of-way maintenance. This is designed for use by other agencies. Process has been delayed somewhat.
- DOT has integrated plan for invasive species.
- Dept. of Environmental Conservation (DEC) recently changed regulations to allow for herbicide use.
- There is high public concern about herbicide use. Level of concern varies by region.
- Weed free gravel certification is more difficult because the material is owned by State and federal government. Cannot require use of certified materials immediately because would shut down pits and make material unavailable.
- Discussion of State web site listing Prohibited & Restricted Noxious Weeds <http://dnr.alaska.gov/aq/akpmc/invasives/pdf/noxious-weeds.pdf>; or <http://plants.alaska.gov/invasives/noxious-weeds.htm>

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APSC major issues: Invasive species requirements affecting APSC's continued access to those existing sites in use

**Cindie Little, Alaska Stand Alone Pipeline (ASAP)**

- Still in pre engineering phase, but estimate a need of about 13.5 million cy north of Yukon River for initial construction of ASAP. This is based on 36 inch pipeline. If a decision is made for a larger pipeline, more material would be needed.
- Long-term maintenance needs would be similar to APCS (30-50,000 cy/yr)
- One difference from TAPS is that the gas line will be buried and is cold, not warm
- Nolan Heath suggested the gas line would probably need less than TAPs, as there are fewer access roads for ASAP
- Need access roads to get to the gas line for maintenance. Might find maintenance needs higher.
- Bedding and padding material for the pipe has to be fine sand (12" total, 6" above and below. 4.5' wide trench). Envision a 5' by 5' trench. Will fill in the ditch with the material pulled out. Access roads and pads do not need to last long, so won't need special materials. Will need riprap for certain areas.
- Camp pads and lay down yards. Require 4 inches of better quality material that will compact for surface. Included in 13.5 million cy
- No compressor stations are needed for 36" pipeline.
- There is a definite need for more gravel sources on the Dalton Highway to meet needs of ASAP, DOT, and TAPs.
- Does anyone know how much material is available from existing pits?
- APSC mine plans outline an area where cultural clearance is done and it has some estimate of reserves for this area, but not sure how this estimate was developed. It is not sure how good the estimates are. Usually these estimates are quality based. You cannot take the number at face value, it might estimate 100,000 cy, but only 70,000 cy are usable.
- When do we have enough exploration data? Come up with minimum standard plan for exploration?
- Are DOT and APSC amenable to co-location with ASAP? ASAP has had some discussion on this topic with DOT and APSC, but these sites are in use already and might not have room for another party.
- ASAP will need 4-6 camps and pipe storage yards combined (4 camps/pipe storage, 2 pipe storage only). Of course it is a money savings to reuse camp sites from others, so ASAP would like to do this when possible. The original EIS for ASAP assumed use of all existing camp sites so that is what was analyzed.
- Old construction camp sites could be reused. APSC pump station sites are too small and currently in use so probably would not be useable as co-location site.
- **Karen Ray, Alaska Liquified Natural Gas (AK LNG) –**
- Likely there will only be one of the two pipelines built, not both
- AK LNG has no estimate of gravel quantities yet, but pipe is larger than ASAP so would need compressor stations. It is doing field work this summer. Resource reports draft 1 with FRQ. Final Resource reports draft 2 will be done next summer. It is afe to say that AK LNG will

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need more material than ASAP because of the larger pipe size and the need for compressor stations.

**Lunch 11:45 ~ 1:15**

**Powerpoint Presentation: Rob Ellefson, BLM Gravel Summit – Management and future management options**

Questions or comments on this presentation:

- If request is in excess of 300,000 BLM must process as a competitive sale. If only one bidder would it qualify as competitive? Good question. Need to follow up on answer.
- Is the 300,000 cy limit per site? No this is for the entire state.
- Is the State bonded? State is self-insured.
- What is the reclamation plan and when is it required? Currently BLM does **NEPA twice, once on the site location and second on development of site. This creates more work load and is a difficult issue BLM wants to solve through RMP.**
- One concern with competitive sale to operators is the possibility for price gouging.

**Jack Reakoff – Wiseman Community Member, perspective on Materials Sites and use in the Wiseman Area, and the corridor in general**

- Been in the area since before the pipeline was built
- Generally, site selections have been good
- Called for public meetings with users
- There seems to be ample number of sites available, expansion of the existing sites is much more preferred than opening up new sites
- Consider visual impacts
- Sites in the Wiseman Road area would seriously disrupt short summer tourist season and overall quality of life for residents
- Called for better exploration data to inform a more detailed site analysis

**Powerpoint Presentation: Tim Hammond, BLM Potential standard stipulations that could affect mineral materials management**

#### Required RMP Decisions

Mineral Materials: "Identify the following consistent with the goals and objectives for the exploration, development, and disposal of mineral materials in concert with the protection of natural resources within the planning area.

1. Areas open or closed to mineral material disposal.
2. Any terms, conditions, or other special considerations needed to protect resource values while operating under the mineral materials regulations.

The potential stipulations listed below are some ideas that have been suggested for consideration. Issues for consideration:

- Inadequate information when analyzing material site authorizations
- Insufficient information about reclamation when analyzing site authorizations
- Hours of operation within specified distances of campgrounds
- Difficulties managing camps associated with gravel operations

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- Material Site Distribution/Density
- Poor Exploration Reliability
- Site Closure
- Storage Sites
- Emergency Use
- Spread of Invasive plants
- Revegetation Success

**Closing** – a call for everyone possibly affected by BLMs planning decisions under the RMP to remain engaged and involved as we formulate our recommendations



## MINUTES OF MEETING (MOM)

Project Name:	Project Overview to Commissioner of Transportation
Meeting Type:	Meeting/Workshop
Meeting Subject:	Project Overview to Commissioner of Transportation
Date of Meeting:	03/31/2015
Document Control Number:	USAI-PE-SAMOM-00-000075-000

ATTENDED BY:	ORGANIZATION:
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)
Jeff Raun	Alaska LNG Project
Kim Fox	Alaska LNG Project
Lydia Johnson	Alaska LNG Project
Marc Luiken	Alaska Department of Transportation and Public Facilities (ADOTPF)
Roger Healy	Alaska Department of Transportation and Public Facilities (ADOTPF)
Steve Hatter	Alaska Department of Transportation and Public Facilities (ADOTPF)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Richardson Highway and Port of Valdez	ADOT&PF questioned if the project team is exploring use of the Port of Valdez and the Richardson Highway for equipment or material movement; indicating that ADOT&PF would want to know as soon as possible if the Richardson Highway is under consideration.
2	Origin of PBU gas	Commissioner Luiken asked about the origin of PBU gas and whether it would be coming from CGF, CCP, or both. Project team committed to follow-up on this.
3	Dirigibles	ADOT&PF asked if the project logistics team had considered the use of dirigibles to move heavy equipment across Alaska by air. Steve H. offered to provide an ADOT&PF point of contact for follow-up.
4	CD5 knowledge base	Commissioner Luiken recommended the project team reach out to CD5 contractor teams for north slope logistics. Outreach is occurring to contractors through integrated logistics studies.
5	Alyeska TAPS pipeline ROW	ADOT&PF asked what the project team's level of engagement has been with Alyeska and if the team is engaging with Alyeska about pipeline ROW. After the meeting, ADOT&PF asked if the team is engaging Alyeska about the Yukon River Bridge crossing. After the meeting, confirmation was issued that engagement is occurring. Since the meeting, the pipeline team has scoped a study to determine impacts to Alyeska ROW as well as engaged the State DGGs on the Yukon crossing.
6	Infrastructure Impacts from Pipeline	ADOT&PF asked what other infrastructure may be affected by the project. The project team communicated that mainline RevB will be reviewed with Agencies. ADOT&PF attended the RevB multi-Agency review meeting on 5/12.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING (MOM)

Project Name:	Meeting with Alaska Commissioner of Labor Heidi Drygas
Meeting Type:	Unplanned/chance encounter
Meeting Subject:	Introduction to Alaska LNG Project, discuss roll-out of labor study
Date of Meeting:	04/02/2015
Document Control Number:	USAI-PE-SAMOM-00-000121-000

ATTENDED BY:	ORGANIZATION:
Dan Robinson	Alaska Department of Labor and Workforce Development (ADLWD)
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)
Joe Thomas	Alaska Department of Labor and Workforce Development (ADLWD)
Kim Fox	Alaska LNG Project
Lydia Johnson	Alaska LNG Project
Paul Quesnel	BP Exploration Alaska
Portia Babcock	ConocoPhillips (COP)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Alaska Department of Labor - initial follow-up	Provide Department of Labor with initial engagement strategy for Project's integrated labor study

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING (MOM)

Project Name:	Review Avian Raptor Protocols with USFWS		
Meeting Type:	Phone Call		
Meeting Subject:	2015 Raptor Survey Protocols		
Date of Meeting:	04/06/2015		
Document Control Number:	USAP-PE-SAMOM-00-000010-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Dave Erikson	AECOM		
Jennifer Spegon	United States Fish and Wildlife Service (USFWS)		
Jessee Brownlee	AECOM		
Jewel Bennett	United States Fish and Wildlife Service (USFWS)		
Wes Cornelison	AECOM		
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Review Avian Raptor Protocols	Review protocols with USFWS	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>





## MINUTES OF MEETING (MOM)

Project Name:	ADF&G Wildlife Training for Fugro Team		
Meeting Type:	Meeting/Workshop		
Meeting Subject:	ADF&G Wildlife Training for Fugro Team		
Date of Meeting:	04/12/2015		
Document Control Number:	USAL-PE-SAMOM-00-000058-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Larry Lewis		Alaska Department of Fish and Game (ADFG)	
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Wildlife Training	Larry Lewis participated in induction meeting/training for Fugro Summer 2015 G&G work (onshore). Larry provided group with awareness regarding wildlife interactions.	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING (MOM)

Project Name:	Pacific Alaska LNG Leases - Access to Archived Records
Meeting Type:	Unplanned/chance encounter
Meeting Subject:	Pacific Alaska LNG Leases - Access to Archived Records
Date of Meeting:	04/14/2015
Document Control Number:	USAL-PE-SAMOM-00-000059-000

<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Claire Joseph	Alaska LNG Project
James Sowerwine	Alaska Department of Natural Resources (ADNR)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Access to archived files from Pacific Alaska LNG Project at Nikiski (circa 1970s).	<p>In a conversation related to shore fishery leases, ADNR-ML&amp;W said that they have retrieved two lease files from their archives related to the previous Pacific Alaska LNG project at Nikiski (circa 1970s). These files are:</p> <ul style="list-style-type: none"><li>- ADL 61493</li><li>- ADL 61494</li></ul> <p>James Sowerwine at ADNR is the point of contact and retrieved these files from archives to make available for Project review. James also brought up ADL 57588 which relates to a highway easement that overlaps part of the western pipeline corridor to the northwest of Cook Inlet. James said that when he saw the pipeline corridor, he wondered whether we knew about the highway easement.</p> <p>Obtained electronic records from ADNR and filed in Aconex. David Sinclair had follow-up discussion with James Sowerwine to discuss information.</p>

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Review of Final NMFS Comments & Updates to Cook Inlet G&G IHA Application
Meeting Type:	Phone Call
Meeting Subject:	Review of Final NMFS Comments & Updates to Cook Inlet G&G IHA Application
Date of Meeting:	04/15/2015
Document Control Number:	USAI-PE-SAMOM-00-000078-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Billy Oliver	Alaska LNG Project
Caryn Rea	Alaska LNG Project
Claire Joseph	Alaska LNG Project
Sara Young	National Marine Fisheries Service (NMFS)
Steve Ellsworth	exp Energy Services

### AGENDA ITEMS:

Item	Agenda Item	Description
1	NMFS Queries on Final IHA Application	NMFS asked for two final clarifications on Project IHA Application. The clarifications relate to use of echo sounders as well as the down hole geophysics equipment. The Project confirmed that they would update the application for NMFS with available information.
2	ESA Consultation - Biological Assessment	Sara Young recommended that the Project prepare a biological assessment to facilitate ESA consultation. Sara requested that a copy be provided to both NMFS offices - the local, Alaska office as well as to the Maryland office. Claire Joseph confirmed that the Project has prepared a biological assessment which is undergoing final reviews/ edits. Sara Young commented that the Project should plan to include Steller Sea Lions in the scope of the Biological Assessment. Greg Green confirmed that Steller Sea Lions and Humpback Whales were included in the draft Biological Assessment.
3	Schedule	Sara Young asked about the Project's desired schedule / timing of work. Claire Joseph responded that the Project would like to receive authorization as soon as possible, but that we realize that July timeframe is likely. Sara Young indicated that the ESA consultation has the longest potential timeframe (180 days).
4	Calculation of Takes	Sara indicated that NMFS is revisiting how it calculates "takes" and that the granted number of takes may be different than that which was requested. Claire Joseph inquired whether NMFS required any additional information as it reviewed the calculation of takes. Sara indicated that no further information was required.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING (MOM)

Project Name:	Methodology for Evaluating the Presence of Submerged Cultural Resources in Cook Inlet
Meeting Type:	Meeting/Workshop
Meeting Subject:	Methodology for Evaluating the Presence of Submerged Cultural Resources in Cook Inlet
Date of Meeting:	04/17/2015
Document Control Number:	USAI-PE-SAMOM-00-000044-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Caryn Rea	Alaska LNG Project
Claire Joseph	Alaska LNG Project
Jon Schmidt	exp Energy Services
Ned Gaines	AECOM
Richard Vanderhoek	Alaska Department of Natural Resources (ADNR)
Shina Duvall	Alaska Department of Natural Resources (ADNR)
Tom Gillespie	ADNR, Division of Parks and Recreation, Office of History and Archaeology

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Proposed Methodology	After Ned Gaines presented proposed methodology for review of submerged cultural resources, Richard Vanderhoek/OHA consented to approach provided via e-mail on 15-Apr-15 and discussed on 17-Apr-15
2	Inter-tidal zone	Richard Vanderhoek stated that the Project should check the inter-tidal zone (at locations of gas pipeline shore crossings) with diligence.
3	Time & Resources	Richard Vanderhoek agreed the Cook Inlet is a dynamic environment and stated that overall, the OHA would prefer the Project to focus time and resources in other areas (i.e. terrestrial environments) that have greater potential for containing intact archeological remains.
4	Radiocarbon Dating	Richard Vanderhoek stated that if the Project did identify paleosols, buried soils, or other indications of submerged landscapes, to attempt C14 (radiocarbon dating) analyses to date the landform. This should be done if the finding was 'unequivocally terrestrial sediment.'
5	Sonar	Richard Vanderhoek agreed that the sonar was a valuable tool and should be able to identify shipwrecks.
6	Analysis Area	Shina Duvall asked what was the Project area of analysis - whether it just included the gas pipeline corridor across Cook Inlet? Claire Joseph responded to Shina Duvall that the area of analysis included both the offshore segment of the gas pipeline corridor in Cook Inlet, and also the marine terminal. Shina Duvall mentioned that OHA is working on creating a GIS layer to be represented in the online AHRS portal which shows surveys in Alaska. OHA would incorporate Project survey areas if that information can be provided.
7	Path Forward	Group on call discussed action items and path forward: Alaska LNG sends correspondence with proposed methods to SHPO; SHPO responds with written agreement that the methods would be adequate. Shina clarified that upon receipt of official correspondence, SHPO would provide a letter of "non-objection" to the proposed methods for use with FERC consultation. Formal concurrence with a finding of "No Historic Properties Affected" won't come until we report the results of our findings to SHPO and engage in Section 106 consultation

### ACTION ITEMS:

Item	Action Items/Topics	Due Date



## MINUTES OF MEETING (MOM)

Project Name:	KPB Permitting
Meeting Type:	Meeting/Workshop
Meeting Subject:	2015 Permitting for Activities in the Kenai Peninsula Borough
Date of Meeting:	04/20/2015
Document Control Number:	USAI-PE-SAMOM-00-000123-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Jeff Raun	Alaska LNG Project
Larry Persily	Kenai Peninsula Borough (KPB)
Marcus Mueller	Kenai Peninsula Borough (KPB)
Mike Navarre	Kenai Peninsula Borough (KPB)
Paul Ostrander	Kenai Peninsula Borough (KPB)
Ruben Medrano	Alaska LNG Project

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Permitting Discussion with KPB	Meeting Overview: Met with KPB administrators to align on permitting strategy for 2015 G&G and other work within the KPB. Established Jeff Raun as primary contact for regulatory permitting and other interfaces except direct discussions on land acquisition. Developed framework to consolidate KPB permitting actions for the various work scopes under a single Land Use Permit.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## ATTENDEES OF MEETING

<b>Locations:</b> Anchorage, AK Denver, CO Washington DC Call-in from other locations	<b>Meeting Name:</b>	Alaska LNG Federal Land Managers Air Quality Meeting
	<b>Meeting Subject:</b>	Alaska LNG Project Air Quality Discussion
	<b>Date of Meeting:</b>	4/21/2015

## ATTENDEES BY LOCATION

### SLR INTERNATIONAL CORPORATION, NAM BLDG. 2700 GAMBELL ST. ANCHORAGE, AK

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Norm Scott	Alaska LNG Project	Brian Hoefler	SLR International Corp.
Brad Broker	SLR International Corp.	Chris Humphrey	exp Energy Services, Inc.
Paul Burger	NPS Alaska		

### USFWS ACADEMY PLACE, 7333 W. JEFFERSON AVE. LAKEWOOD (DENVER), CO

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Bruce Macdonald	SLR International Corp.	Jim Pfeiffer	Alaska LNG Project
Catherine Collins	USFWS	Tim Allen	USFWS
John Notar	NPS	Ethan Aumann	NPS

### FERC OFFICE BLDG. 888 FIRST STREET, N.E. WASHINGTON D.C.

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Al Trbovich	SLR International Corp.	Maggie Suter	FERC
Harry Jeudy	FERC	Gertrude Johnson	FERC

### CALL-IN

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Shannon Miller	DNR / SPCO Alaska	Jewel Bennett	USFWS Alaska
Craig Nichols	BLM Air Quality	Alan Schuler	ADEC Air Quality
Tom Coulter	BLM Air Quality	David Maxwell	BLM Air Quality
Brooke Merrell	NPS Alaska	Jon Schmidt	exp Energy Services, Inc.
Tonnie Cummings	NPS	Tom Damiana	AECOM
Bart Leininger	ALG	Alan Peck	BLM
Kevin Wright	NRG / FERC	Mark Morones	DNR

## MEETING ATTENDEES (BY ORGANIZATION)

### Federal Land Managers Air Quality Meeting

#### ATTENDEES BY ORGANIZATION

##### ALASKA LNG PROJECT

Norm Scott	Brian Hoefler (SLR)	Brad Broker (SLR)	Chris Humphrey (exp)
Jim Pfeiffer	Bruce Macdonald (SLR)	Al Trbovich (SLR)	Jon Schmidt (exp)
Tom Damiana (AECOM)	Bart Leininger (ALG)		

##### FEDERAL ENERGY REGULATORY COMMISSION (FERC)

Maggie Suter	Harry Jeudy	Gertrude Johnson	Kevin Wright (NRG)
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##### BUREAU OF LAND MANAGEMENT (BLM)

Craig Nichols	Tom Coulter	David Maxwell	Alan Peck
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##### NATIONAL PARK SERVICE (NPS)

Tonnie Cummings	Brooke Merrill	Paul Burger	John Notar
Ethan Aumann			

##### U.S. FISH AND WILDLIFE SERVICE (USFWS)

Catherine Collins	Jewel Bennett	Tim Allen	
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##### ALASKA DEPARTMENT OF NATURAL RESOURCES (DNR)

Shannon Miller	Mark Morones		
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##### ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC)

Alan Schuler			
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## MINUTES OF MEETING

<b>Locations:</b> Anchorage, AK Denver, CO Washington DC Call-in from other locations	<b>Meeting Name:</b>	Alaska LNG Federal Land Managers (FLM) Air Quality Meeting
	<b>Meeting Subject:</b>	Alaska LNG Project Air Quality Discussion
	<b>Date of Meeting:</b>	4/21/2015
	<b>Doc. Number:</b>	USAI-PE-SAMOM-00-000079-000
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>
See attached attendee list		

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Introductions	Norm Scott	8 min
2	SSHE Moment	Bruce Macdonald	6 min
3	Meeting Objectives <ol style="list-style-type: none"> <li>1. Familiarize FLM agencies with the Alaska LNG Project.</li> <li>2. Obtain feedback on AKLNG's proposed sources for ambient air quality and meteorological data for impact assessment purposes.</li> <li>3. Request AQRVs for Denali NP and Tuxedni NWR.</li> <li>4. Identify any other FLM agency issues not already captures in AKLNG's plan to assess and manage AQRVs.</li> </ol>	Norm Scott	2 min
4	Project Overview <ul style="list-style-type: none"> <li>• FLM requested that AK LNG provide summary information regarding power generation capacities (in MW) of project components to better understand order of magnitude scale to the facilities.</li> <li>• FERC commented that the Resource Report should include details on all planned project facilities including compressor stations, number of turbines, backup power to be installed, and how the turbines will be operated to clarify intent to install redundant compressors for maintenance and fail-over periods. Early project details were included in Draft 1 Resource Report 1, General Project Description. (Draft 2 will include more design detail.)</li> <li>• Questions were raised regarding information still needed for analyzing marine vessel emissions. For instance, will LNG carriers use shore power when hoteling? What alternative fuels will be allowed when under way? Fleet makeup and operating conditions are of interest.</li> <li>• FERC indicated that the agency maintains information on marine fleet makeup for other LNG projects that is available to supplement Alaska LNG project-specific information for an estimate of emissions. FERC includes marine emissions in its impact analysis out to the limit of state waters.</li> <li>• FWS requested data/estimates about how many additional production wells are planned to be drilled at PTU. AKLNG referred to draft RR1 as the current source of project description information that will be updated in Draft 2.</li> <li>• Current versions of RR1 and RR9 will be circulated to meeting attendees.</li> <li>• BLM asked if slides from the FLM meeting will be distributed upon AKLNG approval. Slides were distributed on 4/24/15.</li> </ul>	Norm Scott / Jim Pfeiffer	46 min



## MINUTES OF MEETING

### Federal Land Managers Air Quality Meeting

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
5	<p>Air Quality Permitting</p> <ul style="list-style-type: none"> <li>• Air permitting will be under the authority of the Alaska Department of Environmental Conservation, which has a SIP-approved program.</li> <li>• The GTP and LNG plant/marine terminal are expected to require PSD permits. The 8 compressor stations (CS) will require individual minor air quality construction permits. One of the two heater stations will be collocated with a compressor station and consolidated into the compressor station minor permit. The other heater station will likely require a separate minor AQ construction permit.</li> <li>• Potential NO<sub>x</sub> emissions for each compressor station are on the order of 100 tpy.</li> <li>• In addition to PSD and minor AQ permits, sources will be subject to all federal requirements, such as NSPS and NESHAPs, and NEPA analysis.</li> <li>• Point Thomson AQ permitting is the responsibility of the PTU operator, but related facility impacts will be included in NEPA cumulative impacts analysis.</li> <li>• Alaska LNG does not propose any Beaufort Sea marine facilities to export LNG directly from the North Slope.</li> </ul>	Al Trbovich	7 min
6	<p>NEPA – Alaska LNG Description</p> <ul style="list-style-type: none"> <li>• Existing climate and meteorology was characterized in Draft 1 of Resource Report 9 using all publicly available long-term meteorological datasets in the project vicinity from the North Slope down through Cook Inlet to Kodiak. The length of the data records ranges from a few years to up to 80 years or more at some stations.</li> <li>• Existing air quality in RR9 Draft 1 was characterized by the available, high quality AQ datasets in the project vicinity. These datasets have much shorter duration than the meteorological datasets – sometimes as little as one year of data. Several additional datasets have been identified since RR9 Draft 1 was prepared. These additional data will be screened for inclusion in Draft 2.</li> <li>• AKLNG provided an overview of the AQ and meteorological data sources proposed for the air quality impact assessment.</li> <li>• GTP and LNG Plant modeling will use AERMOD with site-specific met data.</li> <li>• Compressor station modeling will use AERMOD in screening mode. If representative met data is needed for CS2 and CS4, then AERMOD modeling will use those data.</li> <li>• AERMOD is limited to the area within 50 km of a stationary source. CALPUFF will be used for any modeling of impacts beyond 50 km.</li> <li>• FERC expressed a concern about collecting a valid year of meteorological data within the time frame for the RR submissions. If a timely, valid year is not available, other existing data sources may be used to support modeling. For instance, at the GTP, AQ and met data from A Pad or CCP could be proposed as an alternative.</li> </ul>	Norm Scott/ Brian Hoefler	98 min

## MINUTES OF MEETING

### Federal Land Managers Air Quality Meeting

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
6	<p>NEPA – General Agency Comments</p> <ul style="list-style-type: none"> <li>• FERC clarified their role to work with all agencies during the pre-filing process to ensure needs are met whether or not those agencies become Cooperating and Reviewing Agencies. FERC requests any agency-specific guidance or requirements associated with assessing project impacts be provided to FERC.</li> <li>• Agencies will expect RR9 to explain the rationale for selecting the background AQ and met datasets, specifically documenting the reasons a closer site was not used.</li> <li>• NPS identified additional PM (sulfate and nitrate) and mercury deposition data available at Gates of the Arctic and Denali National Park.</li> <li>• ADEC may have collected PM<sub>10</sub> and PM<sub>2.5</sub> in the Soldotna area.</li> <li>• Applicability of specific data sources to support permitting requires ADEC discussion and approval. ADEC has questions to be answered before agreeing to use of PS3 and PS4 data for modeling CS2 and CS4, respectively.</li> <li>• Discussion regarding construction emissions needs follow up with ADEC.</li> <li>• FERC clarified that it requires applicants to quantify construction emissions, but does not require a modeling impact assessment of construction. The emissions quantification can be used to evaluate whether mitigation measures are needed.</li> <li>• Photochemical dispersion modeling has generally not been required for projects (NEPA or air permitting) unless there is proximity to an O<sub>3</sub> nonattainment area. ADEC noted that Alaska does not have any O<sub>3</sub> nonattainment areas.</li> <li>• FWS raised a concern about using Umiat AQ data from north of the Brooks Range to characterize the region between the Brooks and Alaska Ranges.</li> <li>• FWS also commented that AQ datasets should be reviewed for wildfire influences (exceptional events).</li> <li>• The term “sensitive Class II area” is defined in the MOU among the Dept. of Agriculture, Dept. of the Interior, and EPA regarding air quality analyses and mitigation for federal O&amp;G decisions through NEPA dated June 23, 2011. DOI agencies will provide a copy of this MOU to FERC and an opinion on the MOU applicability to the Alaska LNG Project.</li> <li>• FWS classifies all of their managed lands in Alaska are sensitive Class II areas.</li> <li>• Agencies referred to a “300 km guideline” for FLAG (Federal Land Managers’ Air Quality Related Values Work Group Phase I Report dated 2010) applicability. The 300 km guideline apparently specifies that FLMs will be notified of permitting actions within 300 km of jurisdictional conservation units so FLMs can determine whether any potential adverse effects could occur. Agencies clarified that the 300 km guideline is not actually documented.</li> <li>• NPS and FWS initially requested that AKLNG evaluate impacts (NAAQS, AQRV) at all Class I and Class II areas of Alaska. However, upon further discussion, DOI agencies will provide a more refined request based on the MOU, FLM jurisdictional lands in Alaska, agency determinations on sensitive Class II areas, and the limitation on CALPUFF modeling of 300 km.</li> <li>• A modeling approach should be prepared and circulated for agency review. Include a matrix to assist FLMs in refining requirements Class II areas such as: facility, distances to FLM Class I and Class II areas, facility classification (e.g., PSD major, minor, no permit), emission estimate, and model / approach for analysis.</li> </ul>	Norm Scott / Brian Hoefler	(Cont'd)

## MINUTES OF MEETING

### Federal Land Managers Air Quality Meeting

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
7	<p>Air Quality Related Values</p> <ul style="list-style-type: none"> <li>• FLAG specifies three types of analyses for AQRV – visibility, O<sub>3</sub>, and deposition.</li> <li>• If initial analyses demonstrate that AQRV impacts are below thresholds provided in FLAG, impacts are not adverse and no further analysis is required. If impacts are above the thresholds, a more refined analysis may be required on a case-by-case basis in consultation with the FLM.</li> <li>• FLMs believe the Q/D screening method in FLAG applies to PSD permitting actions, but not to NEPA. A Q/D screening limit was never agreed upon by FLMs for minor stationary sources so it does not apply.</li> <li>• VISCREEN should be used for initial visibility screening.</li> <li>• On the North Slope, a 3 year (2006-08) CALPUFF-ready dataset approved by EPA Region 10 is available from NPS/FWS to support GTP analysis (Arctic National Wildlife Refuge, Gates of the Arctic National Park).</li> <li>• In Cook Inlet, a 3 year (possibly 2001-03) MM5 dataset is available to support CALPUFF modeling of the LNG Plant. This dataset was used for previous BART (best available retrofit technology) modeling analyses of Cook Inlet.</li> <li>• Source and availability of MM5 dataset for Healy Clean Coal BART analysis is unknown. <i>Subsequent detail from ADEC: Golden Valley Electric used a one-year (2002), 15-km grid MM5 dataset processed using CALMET version 6.211 by the Western Regional Air Partnership (WARP).</i></li> </ul>	Brian Hoefler	21 min
8	<p>Other Discussion</p> <ul style="list-style-type: none"> <li>• FERC clarified that greenhouse gases (GHG) emissions quantification is addressed in the NEPA Air Quality section. However, climate change impacts are addressed in the cumulative section.</li> <li>• Applicants typically provide GHG emissions estimates and climate change analyses in RR9.</li> <li>• Quantification of GHG emissions is required for every stage of the project, including construction, operations, and shipping.</li> <li>• GHG emission estimates should not include product combustion emissions from the exported LNG. FERC presumes LNG from jurisdictional projects is a commodity that would be replaced by another LNG source and accordingly should not be considered in the cumulative effects assessment.</li> <li>• An FLM meeting to discuss noise issues will be scheduled after sufficient facility details, noise surveys, and modelling results are available.</li> <li>• A general conformity analysis, if applicable, will be conducted by FERC for the Fairbanks nonattainment area. Need to confirm if there is any construction activity, including pipe laydown areas, camps, etc. in the nonattainment area.</li> <li>• It was noted that the US Forest Service did not attend the conference call.</li> </ul>	Brian Hoefler	10 min



## MINUTES OF MEETING (MOM)

Project Name:	PHMSA Technical Engagement
Meeting Type:	Unplanned/chance encounter
Meeting Subject:	PHMSA Technical Engagement
Date of Meeting:	04/23/2015
Document Control Number:	

ATTENDED BY:	ORGANIZATION:
Amelia Samaras	Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jeffery Gilliam	Bureau of Land Management (BLM)
Margaret Bass	Alaska LNG Project
Mario Macia	Alaska LNG Project
Rick Noecker	Alaska LNG Project
Ryan Chladek	Alaska LNG Project
Sandra Barnett	Alaska LNG Project
Steve Nanney	United States Department of Transportation (USDOT)

### AGENDA ITEMS:

Item	Agenda Item	Description
1		To continue technical engagement with PHMSA by discussing: offshore pipeline design and the associated FERC information request odorization requirements near LNG plants Special Permit Application Process with focus on SBD Update on Materials and Welding Activities to include Full Scale Testing (FST) Independent third party reviewers were also discussed.
2	Offshore Pipeline and Evidence of Consultation	Evidence of consultation to FERC will likely be demonstration of materials provided to PHMSA and records of conversations. Offshore design for AKLNG was reviewed including routing, burial, seismic, shore crossings, unique Cook Inlet tides. PHMSA also recommended that AKLNG engage with the Corps wrt the Cook Inlet crossing requirements. Buried v direct lay and design factors were also discussed.
3	Odorization	Option 1 as presented was PHMSA's preference because of separation from the refinery.
4	Environmental Informaton	SBD or any other SP will require environmental information. Enclosure B (provided) helps to meet the requirements of 190.341. PHMSA is a cooperating agency in FERC EIS. AKLNG needs to explain mitigation for safety and environmental concerns; inspections, monitoring, modeling, measurements, pigging etc. AKLNG describes commitments to PHMSA which needs to cover the delta between CFR192 and the SP. This will help PHMSA evaluate risk. Alternatives should be in the Resource Reports and Draft SP Conditions will likely be an Appendix. The SP Application needs to able to refer with specificity to the EIS, therefore, the organization of PHMSA-related information in the EIS needs to be determined.
5	Pre-FEED Key Materials Activities	PHMSA will likely not be able to attend the FST's but do want to see the GST reports. Other issues discussed included: Welding and Procedure qualification Review of SBD Conditions 8-11 FST matrices
6	Other	Update on Actions from March 2/3 meeting Mailing Grade/Design Factor Single or Multiple SP's -overlapping requirements or distinct could make a difference. PHMSA also needs to discuss internally.

### ACTION ITEMS:

# ALASKA LNG

## MINUTES OF MEETING

<input checked="" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG Project
	<b>Meeting Subject:</b>	Discussion of BA outline for documenting Project impacts
	<b>Date of Meeting:</b>	4/24/15
	<b>Number:</b>	USAI-PE-SAMOM-00-000081-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Barbara Mahoney	NMFS PRD	Elena Antonakos	Alaska LNG Project
Greg Balogh	NMFS PRD	Lynn Noel	Cardno
Caryn Rea	Alaska LNG Project	Jon Schmidt	exp

### DISCUSSION POINTS/ACTION ITEMS:

Item	Discussion Points/Action Items	Action Item(s) Assigned To:	Due Date
1	There was a general explanation of the intent of the meeting, clarification that the BA outline was for Project impacts and not G&G studies, and that Alaska LNG was the non-federal representative for informal consultation	NA	NA
2	Greg asked if the Project knew about the fault lines that were in Cook Inlet and what would happen to the pipeline if it ruptured. It was explained that the G&G program this summer would pick up additional information on the fault lines. Also that the natural gas would bubble to the surface if the line ruptured.	NA	NA
3	A side discussion on the G&G program for this summer took place and the NMFS were of the opinion that if our BA indicates that the impacts are "not likely to adversely affect" a species, then informal consultation is all that is needed.	NA	NA
4	For assessing Project impacts, Alaska LNG will need to look at the LNG carrier and barge transit routes to assess the species potentially impacted.	L. Noel/J. Schmidt	Late summer
5	ADF&G should have some of the protected salmonid data (Chinook and steelhead) that shows the NW populations are taken in the winter king fishery out of Homer	L. Noel/J. Schmidt	Late summer
6	Since there are now two stocks/DPSs of humpback whales, one protected and one not, in the Project area, need to make sure we describe the two DPSs and clarify that they are not distinguishable when assessing impacts	L. Noel/J. Schmidt	Late summer
7	NMFS advised Alaska LNG to watch for any changes to the listings or additions of other species (bearded seal) over the course of developing a draft BA	C. Rea	NA
8	NMFS agreed to review BA sections ahead of filing the draft document with FERC in early 2016	C. Rea	Late summer/early fall
9	To address MMPA species, NMFS recommended that RR 3 include IHA level analysis of non-listed species. NMFS agreed to review these sections ahead of filing with FERC as well	C. Rea	Late summer/early fall
10	Belugas are concentrated along the north shore of Cook Inlet in the summer months following the salmon and other species entering the major streams and rivers (from the Susitna to the McArthur river). Timing the construction work for the Project to avoid the months when they are there will help avoid impacts.	L. Noel/J. Schmidt	Late summer

<p style="text-align: center;"><b>MINUTES OF MEETING</b></p> <p style="text-align: center;"><b>NMFS Meeting Discussion</b></p>
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11	NMFS suggested that we also coordinate with the MD office since any take permit for the Project would come from that office.	C. Rea	Late spring/early summer
12	NMFS agreed that having a separate meeting with the Essential Fish Habitat team would be beneficial (rather than combined with ESA)	C Rea	Late spring/early summer



## MINUTES OF MEETING (MOM)

Project Name:	APDES Application - Review with DEC
Meeting Type:	Phone Call
Meeting Subject:	APDES Application - Review with DEC
Date of Meeting:	04/28/2015
Document Control Number:	USAI-PE-SAMOM-00-000124-000

<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Claire Joseph	Alaska LNG Project
Gerry Brown	Alaska Department of Environmental Conservation (ADEC)
Jamie Grant	Alaska Department of Environmental Conservation (ADEC)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Receipt of Final Application	DEC wants STC toxicity results for planned drilling fluids before they issue draft permit for Applicant Review. <b>Project</b> asked whether the Project could retain the option for two different types of drilling fluids. DEC confirmed that we could retain that option but should tell them now (and provide toxicity results for both options). DEC also asked for clarification regarding potential typographic errors in the table of borehole depths in the application (reversal of feet and meter values).
2	Permit Conditions - Time Area Restriction	DEC said that the permit will include time area restrictions for work in set net leases during fishing season. They asked whether ADF&G or NMFS had imposed any time area restrictions on the work. <b>Project</b> confirmed that there were no permits required from ADF&G and that NMFS permitting was not yet completed.

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	Liquefaction Team Meeting with PHMSA /FERC – Meeting No. 1
<input type="checkbox"/> Telephone	<b>Date /Location of Meeting:</b>	April 29, 2015 DOT Headquarters, Washington D.C.
	<b>Number:</b>	

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Michael Britton	Alaska LNG Project	Buddy Secor	PHMSA (engineering)
David Bergeron	Alaska LNG Project	Julie Halliday	PHMSA (engineering)
Dave Raaf	Alaska LNG Project	Aaron Glaser	PHMSA (legal)
Ruben Medrano	Alaska LNG Project	Ken Lee (part time)	PHMSA
Robert Nolan	EM	Alan Mayberry (part time)	PHMSA
Sandra Barnett	Alaska LNG Project	Alisa Chunephisal	PHMSA (legal)
Marcel Panelo	BP	Andrew Kohout	FERC (LNG Engineering Acting Branch Manager)
Kevin Avery	COP	Joe Sieve	Consulting Engineer (on behalf of PHMSA)
Roy Lucas	Consulting Engineer (on behalf of PHMSA)		

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Safety/Quality Moment on Asset Integrity	Mike Britton	
2	LNG Project Organization	Mike Britton	
3	Site Selection Considerations	David Bergeron	
4	Plot Plan Concepts	Dave Raaf	
5	Design Issues	Dave Raaf	
6	2015 G&G Program	Mike Britton	
7	Agency Expectations / Potential Workshops	David Bergeron	2.5 hours total meeting time

### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
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## MINUTES OF MEETING (MOM)

Project Name:	Maritime Safety and Security Review at USCG Sector Anchorage JBER
Meeting Type:	Meeting/Workshop
Meeting Subject:	Maritime Safety and Security Review at USCG Sector Anchorage JBER
Date of Meeting:	04/30/2015
Document Control Number:	USAI-PE-SAMOM-00-000122-000
<b>ATTENDED BY:</b>	
Adam Carron	United States Coast Guard (USCG)
Aurora Courtney	exp Energy Services
Brad Fuller	AcuTech
CDR Shawn Decker	United States Coast Guard (USCG)
Claire Joseph	Alaska LNG Project
Dan Belanger	Alaska Department of Military and Veteran's Affairs (ADMVA)
Dennis Maguire	Alaska LNG Project
Eugene Chung	United States Coast Guard (USCG)
Hector Cintron	United States Coast Guard (USCG)
John Farthing	United States Coast Guard (USCG)
John Taylor	Alaska LNG Project
Kim Jenish	United States Coast Guard (USCG)
Robert Davis	United States Coast Guard (USCG)
Steve Calabrese	AcuTech
Tim Robertson	Nuka Research and Planning Group

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Overview	After an emergency briefing provided by USCG, the group discussed as a safety moment the importance of wearing a life jacket when boating. This topic was raised due to a recent incident of a boating accident and drowning near Homer/Seldovia. The group reviewed slides prepared by AcuTech which covered safety and security considerations which would be assessed during the Follow-On Waterway Suitability Assessment (WSA) workshop.
2	SWAPA pilots	USCG asked if there are there are enough SWAPA Pilots to accommodate future Alaska LNG Project LNGC traffic? Project confirmed that additional SWAPA pilots would be required. It takes 5-7 years to train a pilot and ensure that he/she has adequate experience. Since the operational phase of this Project is approx. 10 years in the future, there is time to train pilots.
3	Customs Clearance	USCG asked if the Project had a strategy regarding customs clearance. The group discussed whether vessels could be cleared on the North Slope rather than Adak or Unalaska, and how to arrange for efficient customs clearance at Homer / Cook Inlet. The group discussed that this would not be worked in the WSA but would be an important subject going forward.
4	LNGC anchorages	USCG asked whether LNGC anchorages had been considered or identified yet. Alaska LNG Project representatives confirmed that anchorages are being considered in Kachemak Bay. Three locations have been identified and their selection was based on wind directions, wave patterns, various other parameters for safety. The group will identify those three anchorages during the WSA workshop.
5	USCG Response and Assets	The USCG explained (at a high level) how decisions would be made to deploy personnel and assets for safety or security situations. The group discussed various scenarios that might be applicable to WSA. USCG has 2-3 cutters available year-round for response in the Project area (but those cutters may be in various regions of the State and

Item	Agenda Item	Description
		therefore will not be on immediate standby for Project response). The cutters would soon be replaced with vessels of same capability. Smaller USCG boats are seasonal (Memorial Day to Labor Day).
6	Security Scenarios	USCG explained that the potential significance of security scenarios are considered based on three main factors: capability, intent, and geography. The geography in Alaska makes many of the security scenarios have a very low probability of occurrence. Additionally, LNGC size and speed of transit make it a difficult target for security incidents. The group noted that the 'small town' atmosphere in Homer and more broadly, in Cook Inlet, would mean that a stolen boat/ vessel would be quickly reported, and that any suspicious activity (i.e. loading explosives into a boat) would likely be reported to authorities. Group discussed that security risk of underwater attack is of negligible concern given the cold temperature, high turbidity, and strong currents and tides in Cook Inlet. Aerial attack is also of little concern in this particular geographic region.
7	WSA Implementation - duplication of risk scenarios	The group noted that many of the safety and security considerations of the LNGC transit route inbound and outbound are similar and therefore it would be likely during the WSA workshop that discussion on certain segments could be concluded quickly if there were not major differences in risk factors.
8	Relevant Plans	USCG mentioned several groups and plans which are relevant to vessel safety and security and which include: <ul style="list-style-type: none"> <li>- Alaska Partnership for Infrastructure Protection</li> <li>- Area Maritime Security Committee</li> <li>- Underwater Terrorism Prevention Plan</li> <li>- Cook Inlet Harbor Safety Committee (currently being formed)</li> </ul>
9	Safety Scenarios	Group considered whether an emergency at a drilling rig or oil/gas production platform in Cook Inlet would affect LNGC routing which could cause any further safety or security concerns. Also considered whether Trans Alask pipeline construction could affect LNGC transit or the WSA.
10	Notice of Arrival	Group discussed notice of arrival (NOA) process, including the different actions that are taken by USCG and other federal agencies (Customs, Immigration, Agriculture) to prepare for a vessel arriving to a U.S. Port. In addition to the standard procedures, high interest vessels are tracked by Pacific Area Maritime Intelligence Fusion Center (MIFC) located in Alameda, CA. ( <a href="http://www.military.com/HomePage/UnitPageFullText/1,13476,723887,00.html">http://www.military.com/HomePage/UnitPageFullText/1,13476,723887,00.html</a> ). Vessels are put on a 'heightened awareness' list if the vessel had recent ports of call in specific locations globally and if the vessel is of high interest, the USCG will board the vessel at sea.
11	Shelikof Strait	USCG is considering restricting use of Shelikof Strait for transit of certain types of vessels (i.e. tank vessels). Shelikof Strait is an area of concern for the USCG due to the challenges of safe navigation related to tides, weather, its remoteness, and the lack of oil spill response capability.  Group decided to retain the Shelikof Strait LNGC transit route segment in the WSA risk assessment to be evaluated. Restriction of certain vessel movement through that area would take time to put in place (i.e. requiring regulations) and would need to be considered in the annual updates to the Alaska LNG WSA in the future.
12	Stakeholder Comments for WSA	MST1 Davis will provide to Project the comments received by USCG from technical assessment group and stakeholder representative group members so that Project can incorporate those comments into the WSA workshop.
13	Updated AIS/Vessel Call Data	Tim Robertson to provide 2014 vessel calls for critical ports to be used as data set for WSA workshop and WSA report.

Item	Agenda Item	Description
14	Area Maritime Security Plan	Project requested access to Area Maritime Security Plan to incorporate assumptions into WSA workshop. John Farthing to provide hard copy and/or digital version to Steve Calabrese. John Farthing also mentioned other useful reference documents: <ul style="list-style-type: none"> <li>- Cook Inlet Marine Firefighting Plan</li> <li>- Cook Inlet Risk Assessment has information (maps) about VHF Coverage in Cook Inlet</li> </ul>
15	Pilot Boarding West of Homer Spit	John Taylor will provide to the group a copy of the letter of understanding that states circumstances under which SWAPA will and will not board vessels east of 60 foot rock
16	Communications in Cook Inlet	Group discussed potential communication gaps or limitations along the LNGC transit route (not vessel to vessel communications, but rather USCG to vessel communications). VHF, UHF, GMDSS, Satellite phones, and cell phones should be considered/ evaluated.
17	Non-LNGC vessel transit through maneuvering basin	Group discussed that certain vessels transiting to/from the Port of Anchorage transit very close to the proposed Alaska LNG Project terminal (in the area that the Project refers to as "the maneuvering basin"). This was seen from AIS data that the Project studied in preparing for the WSA. The group noted that this vessel traffic should be considered with respect to allowed activities in/near the safety or security zones for Project LNGCs.
18	Safety and Security Zones	Group discussed safety and security zones, including: <ul style="list-style-type: none"> <li>- Regulatory process for establishing these zones</li> <li>- USCG resources needed to enforce zones</li> <li>- Exceptions/allowances that can be made for other commercial/ recreational activities in the area if deemed appropriate</li> <li>- Nature of these zones that they are site-specific (not mandated nationally)</li> <li>- Other means by which the Project works with USCG on topics of safety and security (including Facility Security Plan (FSP)).</li> </ul> <p>It is important for Project to be aware of the current regulations for security zones in Cook Inlet (reference 33 CFR 165).</p>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 1, 2015
<b>Sub-Project Name</b>	Gas Pipeline, Gas Treatment Plant, PTU Transmission Line, PBU Transmission Line	<b>Location</b>	Barrow, AK
<b>Meeting Subject</b>	General overview of the Alaska LNG Project , focusing on portions within the NSB (Pipelines and GTP)		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Adrienne Rosecrans	Alaska LNG Project	Matt Dunn	North Slope Borough (NSB)
Anthony Pennino	Alaska LNG Project	Ned Arey Sr	North Slope Borough (NSB)
Bart Ahsogeak	North Slope Borough (NSB)	Rhoda Ahmaogak	North Slope Borough (NSB)
John Q Adams	North Slope Borough (NSB)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Take-off Points	Question from Rhoda- What will the take-off Points be for getting gas to the villages?
2	ASAP Status	Questions about what the ASAP Project is doing.
3	Effects of buried Pipelines of permafrost	What are the effects on permafrost from a buried gas pipeline? Need to include traditional knowledge in this design aspect.
4	Security at GTP	What are your security plans at the GTP?
5	Gravel Roads in PBU	Will you be improving/expanding any of the in-field roads from West Dock to GTP?
6	Use of Ice Roads	Are you going to use ice roads to move your modules
7	Use of NSB lands within Deadhorse for Project use	The NSB owns ~970 acres of land behind the EM Deadhorse Pad and is looking to develop these lands.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING

<b>Locations:</b> Conference Call	<b>Meeting Name:</b>	Midstream Emissions Calculations and Modeling
	<b>Meeting Subject:</b>	Modeling of Compressor Station Emissions
	<b>Date of Meeting:</b>	5/4/2015
	<b>Document No:</b>	USAP-PE-SAMOM-00-000005-000
<b>ATTENDED BY:</b> <b>ORGANIZATION:</b>		
Alan Schuler (ADEC), James Renovatio (ADEC), Bart Leininger (ALG), Mark Gruber (ALG)		

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	<p>Project Overview</p> <ul style="list-style-type: none"><li>General overview of the project provided to James Renovatio, who has had little exposure to the Alaska LNG Project</li><li>Overview focused on the compressor stations including the preliminary pipeline corridor, preliminary compressor station locations, and major equipment in each of the proposed stations</li></ul>	Bart Leininger	15 min
2	<p>Compressor and Heater Station Emissions and Permitting</p> <ul style="list-style-type: none"><li>Emissions calculation results summarized for ADEC staff. Current calculations show that all sources are minor and not subject to PSD permitting. ADEC staff advised that the emissions calculations were preliminary.</li><li>Alan Schuler (ADEC) concurred that the compressor station sources would be subject to minor source permitting. Site 2 would be subject to minor source permitting for NOx, PM-2.5, and PM-10; all other stations would be subject to permitting for NOx and PM-2.5. The Heater Station would not be subject to ADEC minor source permitting.</li><li>Alan Schuler (ADEC) indicated that a modeling demonstration would be required for all sources subject to minor source permitting. Modeling would be required for NOx (annual) and PM-2.5 (24-hour) for all compressor stations. For Site 2, modeling would also include PM-10 (24-hour).</li></ul>	Bart Leininger	15 min


## MINUTES OF MEETING

### Meeting with ADEC Regarding Midstream Air Quality Impact Modeling


<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
3	<p>Modeling</p> <ul style="list-style-type: none"><li>• The modeling results were presented to ADEC staff along with the methodology used.</li><li>• ADEC comments were as follows:<ul style="list-style-type: none"><li>○ ADEC agreed that running AERMOD with screening meteorological data would be an acceptable approach.</li><li>○ Screening meteorological data sets should be generated using every degree of wind direction rather than every 10 degrees of wind direction, as currently used in the model.</li><li>○ ADEC indicated that scaling factors (to convert hourly results into other averaging periods) can be used if the maximum impact from <u>each</u> emission source is summed at each receptor.</li><li>○ Alternatively, ADEC indicated that it would be acceptable to use the maximum one-hour average without scaling to demonstrate compliance with longer term ambient air quality standards (e.g., PM-2.5 (24-hour)).</li><li>○ ADEC provided an unpublished guidance document that should be considered in the modeling for the compressor stations (see attached).</li><li>○ ADEC indicated that if Alaska LNG abandons the use of screening meteorological data for modeling, using actual meteorological data from Pump Station No. 3 would not be appropriate for Compressor Station Site 2.</li></ul></li><li>• Regarding background concentration data, ADEC indicated that no background is required if the modeled result is below the thresholds stated in 18 AAC 50.542(c)(2) (e.g., PM-2.5 modeled result is less than 50% of the standard).</li><li>• While not required, ADEC recommended that a modeling protocol be submitted for review and approval.</li></ul>	Bart Leininger and Mark Gruber	30 min

#### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1			
2			

	<b>MEETING NOTES - ADEC AIR QUALITY PERMITTING ENGAGEMENT</b>	USAL-PE-SAMOM-00-000006-000 08-JUNE-15 REVISION: 0
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MEETING DETAILS			
Sub-Project Name	LNG Facilities	Date of Meeting	5-May-15
Meeting Subject	MEETING NOTES - ADEC AIR QUALITY PERMITTING ENGAGEMENT		
ATTENDEES			
Attended By		Organization	
Al Trbovich		SLR	
Brian Hoefler		SLR	
Brad Broker		SLR	
Linsey DeBell		AECOM	
Tom Damiana		AECOM	
AGENDA ITEMS			
Item	Agenda Item(s)		Leader
The meeting lasted an hour and largely followed the presentation (5-5-15 ADEC Briefing) prepared and presented by Jim Pfeiffer. ADEC was interested to hear about the project, but did not have a great deal of questions.			
1	Introductions		Pfeiffer
2	SSHE – Trees and Air Pollution		Pfeiffer
3	Project Overview Used the slide presentation to present relevant project components to ADEC.		Pfeiffer
4	Air Quality Permitting Overview <ul style="list-style-type: none"><li>GTP = PSD Permit and Title V Permit</li><li>8 Pipeline Compressor Stations = Minor Construction Permit – may trigger Title V permit and there are no plans to avoid Title V Permitting</li><li>1 Heater Station = Minor Construction Permit– may trigger Title V permit and there are no plans to avoid Title V Permitting</li><li>LNG = PSD Permit and Title V Permit</li></ul>		Pfeiffer
4a	Ambient Data (Air Quality and Meteorology) to support GTP and LNG PSD Permits <ul style="list-style-type: none"><li>Slide 17, 20, 21, 23, and 24.</li><li>CCP will be used to satisfy preconstruction monitoring requirements for the GTP.</li><li>A new preconstruction monitoring program may be needed at the LNG plant.</li><li>60-meter tower meteorological data to support GTP:<ul style="list-style-type: none"><li>ADEC liked this idea and welcomed it.</li><li>ADEC to expect QAPP/discussions in May 2015.</li></ul></li><li>60-meter tower meteorological data to support LNG – the monitoring project is in progress and ADEC is familiar with it and supports it.</li><li>MM5 Alaska BART coalition data will be used to support AQRV prediction in Tuxedni.</li></ul>		Pfeiffer

	<b>MEETING NOTES - ADEC AIR QUALITY PERMITTING ENGAGEMENT</b>	USAL-PE-SAMOM-00-000006-000 08-JUNE-15 REVISION: 0
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4b	<b>Pipeline Compressor and Heater Station Minor Permit</b> <ul style="list-style-type: none"> <li>Slides 18, 19, and 22</li> <li>Umiat ambient proposed for compressor stations from Prudhoe to Fairbanks               <ul style="list-style-type: none"> <li>ADEC (Alan Schuler) comments that this data needs to be reviewed and that the ADEC monitoring group (Barbara Trost) needs to be consulted regarding data representativeness.</li> </ul> </li> <li>ADEC reiterated that if compressor station and heater station impacts fall below their fast-track screening thresholds that no ambient data collection would be required.               <ul style="list-style-type: none"> <li>ADEC indicated screening modeling thresholds: NO<sub>2</sub>, SO<sub>2</sub>- 80%; PM<sub>10</sub>- 67%; PM 2.5- 50%</li> </ul> </li> <li>Very little feedback on the plan for air quality data to support compressor/heater stations located south of Fairbanks.</li> <li>SCREENING meteorological approach will be used for compressor stations               <ul style="list-style-type: none"> <li>ADEC and AKLNG have previously discussed and have come to consensus on the approach – ADEC finds it acceptable with some small methodology adjustments discussed.</li> </ul> </li> </ul>	Pfeiffer	NA
4a and 4b discussion	<ul style="list-style-type: none"> <li>Overall, AKLNG is trying to use common data for both FERC and PSD filings.</li> <li>Separate QAPPs will be submitted for all new monitoring stations; however, all monitoring stations sanctioned by AKLNG will be considered part of a network.</li> <li>To satisfy GTP visibility analysis, ADEC recommends VISCREEN (Level I or II; whatever it takes) @ 50 km. They like to see reporting against Class II thresholds, but not the integral vista thresholds.</li> <li>ADEC is concerned about lack of monitoring data for supporting the midstream impacts assessment if Fast-Track screening approach does not work.</li> </ul>	ADEC and AKLNG	NA
5	<b>Schedule and Personnel Resourcing</b> <ul style="list-style-type: none"> <li>AKLNG is planning on 18 months for the PSD permits.</li> </ul>	Pfeiffer	NA
6	<b>Future Engagements</b> <ul style="list-style-type: none"> <li>At milestone submittals to the State:               <ul style="list-style-type: none"> <li>Modeling Protocol</li> <li>Control Technology Review</li> <li>Screening Level Modeling Results</li> </ul> </li> </ul>	Pfeiffer	NA
6 Discussion	<ul style="list-style-type: none"> <li>ADEC will be sitting in on FERC meetings to track the project, but active ADEC participation in the NEPA process will be minimal.</li> <li>ADEC does not desire to see the modeling protocol too early               <ul style="list-style-type: none"> <li>ADEC always happy to listen to avoid surprises.</li> <li>Guidance/Policy changes; therefore, no need to see protocol too early and just have to revisit.</li> <li>Appendix W rewrite 2015-2016 will potentially change protocol if submitted too early.</li> <li>12 months in advance of the application is good submittal target for good collaboration.</li> </ul> </li> </ul>	ADEC and AKLNG	NA
<b>ACTION ITEMS</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>
1	NONE		
2			
3			

Note: Delete utilization notes in blue font prior to using this form.



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 8, 2015
<b>Sub-Project Name</b>	LNG Plant, Kenai Spur Highway reroute	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Kenai Spur Highway Update with ADOT&PF		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carol Snead	HDR	Joel St. Aubin	Alaska Department of Transportation and Public Facilities (ADOTPF)
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)
David Post	Alaska Department of Transportation and Public Facilities (ADOTPF)	Mark Dalton	HDR
Jeff Raun	Alaska LNG Project	Scott Guttormson	Alaska LNG Project
Jennifer Witt	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Wharton	HDR

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Leader</b>
1	ADOT&PF (Jennifer W.) strongly recommended Alaska LNG Project team meet with Kenai Peninsula Borough in advance of May 27th preliminary findings review. Alaska LNG Project team met with KPB in advance of 27 May workshop.	
2	ADOT&PF (Jennifer W.) recommended engaging the public when appropriate with a preferred recommendation and show alternatives that were not selected along with how the alternatives were evaluated.	
3	ADOT&PF (Jennifer W.) requested the project team consider Maintenance and Operations differences between existing and future conditions; ADOT&PF indicated maintenance would be negotiated with the Borough for remaining portions of the existing KSH alignment.	
4	ADOT&PF (Ken M.) indicated a preference for limiting access points along the new KSH alignment.	
5	ADOT&PF (Ken M.) indicated that a multi-use path would bring goodwill with the community; ADOT&PF would look to the Borough to maintain a multi-use path if one is constructed.	
6	ADOT&PF (Ken M.) indicated that ADOT&PF would need to work towards a MOU with the Federal Highways Administration (FHWA) for acceptance and transfer protocols. And, ADOT&PF confirmed a need to document informal conversations and formalize them with FHWA regarding ROW acquisition.	
7	ADOT&PF (Jennifer W.) would not want to preclude future expansion into a four-lane highway and recommended the project team engage the KPB about potential future development in North Kenai.	
8	ADOT&PF (Ken M.) indicated it is not looking for a 300' ROW corridor. Jennifer W. commented that the TIA would provide the design basis information, likely leading to a two-lane highway. Ken indicated that 200' of ROW for a non-Miller Loop alignment would likely be sufficient and that a 100-foot ROW could be acceptable for alternatives including Miller Loop Road. ADOT&PF requested that the project carefully evaluate human environment effects of using existing ROW for a new KSH alignment.	

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 8, 2015
<b>Sub-Project Name</b>	Marine Terminal	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Review Waterway Suitability Assessment Workshop Slides		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Brad Fuller	AcuTech	LT. Eugene Chung	United States Coast Guard (USCG)
Claire Joseph	Alaska LNG Project	Steve Calabrese	AcuTech
Dennis Maguire	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS


<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Slide Review	Group reviewed the draft slides to be used for the upcoming WSA risk assessment workshop (May 12-14). The group noted updates to slides and reviewed the order of speakers as well as the agenda. USCG planned to add additional information regarding safety and security zones, and discussed adding examples from other Ports. Group discussed how the safety and security zones are risk-based with local factors influencing mitigation and management strategies (therefore there are not "best practices" but rather measures to address site-specific concerns).
2	Comment Period	Group discussed near-term schedule (after WSA workshop). USCG is planning for 90 day rather than 30 day public comment period, and plans to begin comment period soon after the WSA workshop is completed so that comments received from public can be incorporated into the WSA Report as it is developed by AcuTech and as the USCG prepares the Letter of Recommendation to FERC.
3	Scenario - Anchor Snagging Subsea Pipeline	USCG asked whether group had considered scenario (in preparation for WSA) which included LNG Carrier dropping anchor and snagging a subsea cable or pipeline, rupturing the pipeline.

## ACTION ITEMS


<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MOM MAY 12 2015 MULTI AGENCY PIPELINE ROUTING REVIEW	USAP-PE-SAMOM-00-000001-000 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	May 12, 2015
<b>Meeting Subject</b>	Pipeline Routing Workshop	<b>Location</b>	Embassy Suites Hotel, Anchorage Alaska
ATTENDEES			
	<b>Organization</b>		<b>Organization</b>
	FERC (represented by NRG)		SPCO
	USACE		Kenai Peninsula Borough
	DOT/PF		ADEC
	ADNR		Alaska LNG Project
	ADHSS	Hawk Consulting (contractor to AKLNG)	AECOM (contractor to Alaska LNG Project)
	NPS		EXP (contractor to Alaska LNG Project)
	ADF&G		OHA /SHPO
	USEPA		DGGS
	USFWS		Denali Borough
AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Welcome and Introductions	Karen Wuestenfeld / Sandra Barnett	9 am
2	Safety Moment – 2013 and 2014 Field Program SSHE Highlights	Wes Cornelison	
3	Route Development History and Criteria	Wes Watkins	
4	Point Thomson Transmission Line Route Review	Luke Marodi	
5	Mainline Route Review	Wes Watkins	
6	Offshore Route Review	Ryan Chladek	
7	Final Questions and Wrap-up	Sandra Barnett	Total Meeting Time: 7 hours 20 minutes
ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1	Meeting opened with a review of AK LNG's progress with respect to pre-FEED and followed with a review of the Projects 2013 & 2014 field activities focusing on safety. The Project's field supervisor was presented with a safety coin in recognition of excellent safety leadership.	No Action	Completed
2	The objective of the pipeline routing workshop was to share the process and the progress Alaska LNG is using to advance from a 2,000' corridor to a preliminary route that incorporates environmental, engineering, construction, land, visual impacts, geological considerations and socioeconomic constraints.	No Action	Completed

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	MULTI AGENCY PIPELINE ROUTING REVIEW	
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Item	Action Items/Topics	Assigned To	Due Date
3	Upcoming June multi agency workshops on pipeline construction and waterbody construction were highlighted as follow-on workshops to the pipeline routing workshop and attendance was encouraged.	Jack Everts-coordinated with Julio Daneri & PMT	Completed June 24 & 25
4	An overview of route development was provided including Pt Thomson and the mainline, inclusive of the offshore portion across Cook Inlet.	No Action	Completed
5	The general routing criteria for onshore and offshore (including shore crossings) pipelines was reviewed and the current summary of crossings was provided.	No Action	Completed
6	The pipeline team then commenced a detailed milepost by milepost review of the entire route starting from the Pt Thomson Plant and finishing at the LNG facility. The on-line GIS web mapper system was used for the entire route review. The agencies all have read-only access to the AK LNG system and had been encouraged, prior to the workshop, to be familiar with the available on line data so that maximum use could be made of the day.	No Action	Completed
7	Complementing web mapper was a second projection system that showed photographs or other detailed information of concurrent areas along the pipeline route for additional information and to promote further discussion. The web mapper system was driven by a technician specialized on that system, leaving the pipeline experts able to fully focus on route review information and addressing agency questions.	Ruben Medrano - Rev. B uploaded to Web Mapper	Completed June 15
8	Each mile of the route was reviewed. Some areas such as Glitter Gulch prompted more discussion than others given the particular terrain characteristics of that area. ASAP & AK LNG meeting in the field to review route on June 29.	No Action	Completed
9	Questions and answers were exchanged throughout the meeting.	No Action	Completed
10	Productive debris flow and sediment discussion with DGGs will result in follow up meetings.		
11	<p>Questions and discussions were related to</p> <ul style="list-style-type: none"> <li>• Visual impacts</li> <li>• Aboveground and belowground pipeline and driving factors</li> <li>• VSM height and caribou migration</li> <li>• Use of existing VSM's</li> <li>• Distance and/or relationship to TAPS or other utilities</li> <li>• Thermokarst lakes</li> <li>• Construction – HDD, wetlands, summer vs. winter construction areas</li> <li>• Offshore pipelines and sand waves</li> <li>• Chulitna and other crossings</li> <li>• Vegetation clearing</li> <li>• Alignment (Put 23 mine site, Dunbar trail, Minto Flats, NPS)</li> <li>• Point Thomson Project Pad and number of river crossings</li> <li>• Contaminated areas</li> <li>• Yanert and glacial outburst floods-awareness that it's not just normal fluvial processes occurring so for crossings take into account that high magnitude floods are occurring</li> </ul>	No Action	Completed
12	Meeting concluded at 4:20 pm	No Action	Completed

	MINUTES OF MEETING (MOM)	USAP-PE-SAMOM-00-000001-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 12, 2015
Sub-Project Name	Gas Pipeline, PTU Transmission Line, PBU Transmission Line	Location	Anchorage, AK
Meeting Subject	Multi-Agency Pipeline Routing Workshop		

ATTENDEES			
Name	Organization	Name	Organization
Karen Wuestenfeld	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Luke Marodi	Alaska LNG Project	Wes Cornelison	AECOM
Ryan Chladek	Alaska LNG Project	Wes Watkins	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Sub-Project Name</b>	Pipelines	<b>Date of Meeting</b>	May 13, 2015
<b>Meeting Subject</b>	Pipeline Waterbody Crossing Review with Alaska Department of Fish and Game		

## ATTENDEES

Attended By	Organization	Attended By	Organization
Caryn Rea	Alaska LNG Project	Ryan Clarke	Exp Energy Services
Jack Everts	Alaska LNG Project	Bryan Johnson	Alaska LNG Project
Wes Watkins	Alaska LNG Project	Julio Daneri	Alaska LNG Project
Elena Antonakos	Alaska LNG Project	Steve Ellsworth	Exp Energy Services
Mac Shoulders	AECOM	Mike Timpson	NRG LLC/FERC
Jeff Sherman	Hawk Consultants	Ron Benkert	ADF&G
Anthony Pennino	Alaska LNG Project	Jack Winters	ADF&G
Lee McKinley	ADF&G/SPCO		

## AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	<p>Purpose of Meeting</p> <p>The purpose of the meeting is to review the Pipeline Teams' proposed water body crossing plans with respect to timing (summer vs winter), methodology, and location with representatives of the Alaska Department of Fish and Game (ADF&amp;G)</p> <p>The Team started with the waterbody crossings on the North Slope and worked along the pipeline corridor to the south. Jack Winters provided the majority of feedback on behalf of ADF&amp;G until we reached Southcentral Alaska at which time, input was provided by Ron Benkert.</p> <p>o</p>	Jack Everts	
2	<p><b>Review of Waterbody Crossings of Interest to ADF&amp;G</b></p> <p>An attached spreadsheet prepared by Jeff Sherman highlights changes to construction methodology and timing as well as proposed data collection needs for the summer and/or winter of 2015. The intent is to review these scenarios with the ADF&amp;G prior to finalizing for discussions with FERC in early September.</p> <ul style="list-style-type: none"> <li>- ADF&amp;G provided feedback leading to changes in crossings and construction seasons. Additionally ADF&amp;G recommended areas where additional flow measurements and fisheries surveys would be needed to confirm construction methodology.</li> </ul>	All	

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

# ALASKA LNG

## MINUTES OF MEETING

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	Discussion on USACE Aquatic Site Assessment (ASA) Guidance
	<b>Date of Meeting:</b>	5/14/15
<input checked="" type="checkbox"/> Telephone	<b>Number:</b>	USAI-PE-SAMOM-00-000088-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Mary Romero	USACE	Estrella Campellone	USACE
Janet Post (phone)	USACE	Gayle Martin (phone)	USEPA
Jewel Bennett (phone)	USFWS	Louise Smith (phone)	USFWS
Bob Hensley (phone)	USFWS	Karen Wuestenfeld	Alaska LNG Project
Caryn Rea	Alaska LNG Project	Elena Antonakos	Alaska LNG Project
Michiel Holley	exp	Sandra Barnett	Alaska LNG Project
Dave Erikson (phone)	AECOM		

### DISCUSSION POINTS/ACTION ITEMS:

Item	Discussion Points/Action Items	Action Item(s) Assigned To:	Due Date
1	Dave provided an overview of the Alaska LNG Project's Wetland Protocols.	NA	NA
2	Question from Gayle on what the functional analysis forms look like. Alaska LNG Team noted that the forms are included in Appendix E of RR 2. Alaska LNG to forward a copy of the form to Gayle Martin.	C. Rea	Complete
3	Question from Estrella about the inclusion of pH on the data forms and whether the wetland field crews plan to take pH measurements at site. Dave indicated the crews have been and will continue to be doing this.	NA	NA
4	Estrella clarified that the document sent to the Alaska LNG team and other agency staff from the USACE was not guidance for completing an Aquatic Site Assessment (ASA), but guidelines based on observations made during review of ASAP's ASA.	NA	NA
5	USACE indicated that USACE Engineering Research & Development Center (ERDC) will take the lead on developing ASA guidance. Fieldwork is planned for this summer. Also plan to use EPA data collected from past few years. USACE indicated that time required for ERDC to complete their ASA guidance will likely be 2-3 years.	NA	NA
6	USACE indicated that ERDC is planning to consider use of a reference standard for mapping wetlands as part of ASA guidance. D. Erikson noted that mapping reference areas was included as part of the protocols for Alaska LNG Project.	NA	NA
7	USACE indicated that the McGee and Hollands' methodology doesn't apply to many areas of Alaska, such as the North Slope. USACE also indicated that the Hydrogeomorphic (HGM) classification used by McGee and Hollands is not a useful basis for wetlands functional assessment.	NA	NA
8	Neither the USFWS or USEPA had reviewed the guidelines recently provided by the USACE. USFWS believes their needs will be complimented by the ASA but will rely more on habitat maps.	NA	NA

## MINUTES OF MEETING

### USACE, USFWS, USEPA Meeting Discussion

9	USACE indicated at this time they would likely not require the Project to redo a functional analysis if further guidance is provided by the USACE later in the Project regulatory cycle.	NA	NA
10	Project will need to remain closely engaged with the USACE on the ASA guidance progress. Project requested that USACE share any major developments as updates become available.	NA	NA



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 18, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	144 North Binkley Street, Soldotna, AK 99669
<b>Meeting Subject</b>	Kenai Spur Highway Update		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Jeff Raun	Alaska LNG Project	Michele Aranguiz	Kenai Peninsula Borough (KPB)
Josselyn OConnor	Alaska LNG Project	Mike Navarre	Kenai Peninsula Borough (KPB)
Larry Persily	Kenai Peninsula Borough (KPB) via phone	Paul Ostrander	Kenai Peninsula Borough (KPB)
Mark Dalton	HDR	Scott Guttormson	Alaska LNG Project via phone

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Leader</b>
1	Mayor Navarre indicated beach access for commercial fishing is of interest in the southern portion of the study area.	
2	KPB indicated that a major road project could effect the dynamic of the local community, including effects to local businesses. KPB requested the project evaluate social and economic elements.	
3	KPB recommended including James Baisden in future discussions around local traffic accidents and asked if pre-read materials would be issued in advance of the review meeting with KPB and ADOT&PF on 5/27. KPB requested labeling of Nikiski fire stations on future maps; KPB initiated some speculative discussion around a potential new fire station near Tesoro.	
4	KPB stated the bluff is eroding at the South Miller Loop / Kenai Spur Highway intersection and that a property on the bluff had been condemned due to erosion impacting a residence.	

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Project Overview to Cook Inlet Subarea Committee
Meeting Type:	Meeting/Workshop
Meeting Subject:	Project Overview to Cook Inlet Subarea Committee
Date of Meeting:	05/19/2015
Document Control Number:	USAI-PE-SAMOM-00-000046-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Charlie Kominas	Alaska LNG Project
Claire Joseph	Alaska LNG Project
Eric Vogel	United States Coast Guard
Matt Mitchell	United States Coast Guard

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Project Overview Presentation	Charlie Kominas presented a Project overview at the request of the USCG. Meeting participants in attendance represented: US Coast Guard, CISPRI, Chadux, ADEC, NOAA, Nuka Research, Prince William Sound RCAC, Cook Inlet RCAC, ConocoPhillips, Crowley, Chickaloon, NRC Alaska, OneCall Alaska, EPA, Alaska Regional Hospital, National Weather Service, Kenai Fire Department, Alaska State Troopers, Port of Anchorage, Department of Interior, TAPS, Alaska LNG Project, and several others which did not participate in introductions.
2	Shelikof Strait	During the presentation when discussing the potential LNGC transit routes in Cook Inlet, the meeting co-chairs (from USCG, ADEC, and EPA) voiced their strong desire for avoidance of LNGC transit through Shelikof Strait. It was explained that the Shelikof Strait route was used for WSA risk assessment since it is the historic route of LNGCs from Kenai LNG to customers in Asia. The presentation continued, and there was not further discussion on the aspects of LNGC transit that are distinct from tank vessel traffic.
3	Pipeline Routing - Denali National Park	National Park Service employee asked about the routing of the pipeline through Denali National Park, and whether the Alaska LNG Project pipeline follows the same alignment as that of ASAP.
4	Vendor Database	<p>An individual from an Alaskan emergency response company asked whether the Project planned to distribute the names of businesses submitted to ak-lng.com website beyond prime contractors (i.e. by email or post on website) so that the businesses could have awareness of other interested businesses and potentially form JVs/ partnerships/etc.</p> <p>Kim Fox responded to the inquiry afterwards (by email). Kim will ask the contracting team (who is sending out a questionnaire to all vendors registered on our database as a follow-up to the business info sessions last month) to include on the bottom of the questionnaire a question whether the vendors are willing to be listed on our website.</p>

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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# ALASKA LNG

## MINUTES OF MEETING

<input checked="" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	Discussion of BA outline for documenting Project impacts
	<b>Date of Meeting:</b>	5/26/15
	<b>Number:</b>	USAI-PE-SAMOM-00-000092-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Jewel Bennett	USFWS Ecological Services	Caryn Rea	Alaska LNG Project
Ted Swem	USFWS Ecological Services	Elena Antonakos	Alaska LNG Project
Shannon Torrence	USFWS Ecological Services	Lynn Noel	Cardno
Katie Ott	USFWS Ecological Services		

### DISCUSSION POINTS/ACTION ITEMS:


Item	Discussion Points/Action Items	Action Item(s) Assigned To:	Due Date
1	There was a general explanation of the FERC NEPA Process, intent of the meeting, clarification that the BA outline was for potential overall Project impacts, a description of the general content in Introduction, Proposed Action, and Species Eliminated from Detailed Analysis; and that Alaska LNG was the non-federal representative for informal consultation.	NA	NA
2	Jewel indicated that the USFWS intends to be a cooperating agency for the Alaska LNG EIS review.	NA	NA
3	The USFWS indicated that ADF&G will take the lead on evaluating waterway crossings and that the USFWS will defer to them.	NA	NA
4	Shannon asked that critical habitat be evaluated separately and that a preliminary determination be completed for sea otter critical habitat – including shipping for construction & operations, ballast water management, and aquatic invasive species; which spurred discussion on the extent of the Project Action Area.	L. Noel/J. Schmidt	Late summer/early fall
5	For assessing Project impacts, Alaska LNG may need to look at the LNG carrier and barge transit routes depending on the defined action area; the Waterways Risk Assessment being undertaken by the Project was discussed as a source of information for future discussion of LNG carrier routes; it is likely that the routes will follow existing shipping lanes but there may be a discussion needed about the potential for grounding and the resultant impacts to marine mammals in the area, either in the water or hauled out.	L. Noel/J. Schmidt	Late summer/early fall
6	Alaska LNG will follow-up with the Marine team to understand whether LNG carrier and barge transit routes have been defined for the Project.	C. Rea/ J. Schmidt	Late summer/early fall
7	Ted recommended that critical habitat for polar bear be addressed in terms of preferred habitat (i.e. not necessarily using the terminology critical habitat but including an evaluation of habitat such as barrier islands, onshore denning habitat, etc.). This could be useful to the Project during the EIS phase if a final decision is made on critical habitat in the near future. There was a brief discussion about the current AOGA petition effort underway to renew the Beaufort Sea incidental take regulations.	L. Noel/J. Schmidt	Late summer/early fall
8	Caryn had a question about Steller's eider potential for occurrence within the northern footprint of the GTP and Pipeline. Ted indicated they are still considered to occur primarily west of Prudhoe Bay.	NA	NA

<p style="text-align: center;"><b>MINUTES OF MEETING</b></p> <p style="text-align: center;"><b>USFWS Meeting Discussion</b></p>
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9	Caryn discussed non-jurisdictional activities such as the Kenai Spur Highway relocation (ADOT&PF) and Point Thomson expansion – there are discussions underway to include these activities in the Alaska LNG EIS instead of producing separate NEPA documents. It was noted that the current decision for the pipeline from Point Thomson to the PBU is to be above ground.	L. Noel/J. Schmidt	10/5/15
10	Point Thomson issues – USFWS has concerns about the expansion of Central Pad with respect to storage locations that could block polar bear eastward movement. Their preference is to expand this pad south, away from the coast. Currently Point Thomson has installed cameras to monitor bears moving along coast but they have not heard anything about whether bears were sited or how the system ultimately worked. USFWS recommended that the Project coordinate with Point Thomson about their concerns regarding pad expansion.	C. Rea	NA
11	Caryn asked about potential issues with towers/flares with respect to migratory birds. Shannon suggested that one mitigation measure could be to locate towers next to other structures. Ted – consider primarily westward fall migration movements (birds) and potential for collisions. If there are guy wires they would like to see diverters installed. For flares they prefer a vertical flare over horizontal. Ted did not think a pilot light on a flare was a significant concern. Suggested that any height restrictions be dictated by FAA. They have seen bird collisions with towers at heights less than 150 feet. Jewel recommended that lighting be designed to be downward facing/shielded.	NA	NA
12	Avian Protection Plan –Caryn indicated that Alaska LNG would be preparing a plan and would send to USFWS for review; requested guidance/recommendations from USFWS on vegetation clearing, towers, lighting, other potential issues – any overhead transmission lines.	C. Rea	Late summer/early fall
13	Avian Protection Plan – USFWS to provide guidance and recommendations on vegetation clearing, towers, lighting, other potential issues – any overhead transmission lines.	J. Bennett	June
14	Migratory Bird Treaty Act – Incidental Take Regulations; discussed that process may be fast-tracked and could ultimately be in effect by the time the Project goes through the EIS process; habitat based take estimates may initially be difficult to determine.	L. Noel/J. Schmidt	Monitor
15	USFWS requested information on sequencing of activities, that is when in the process would their BO be required; better definition of the action area, timeline for consultation, and coordination with other agencies. USFWS indicated they would defer to FERC's determination of the action area for their assessment.	C. Rea	Late spring/early summer
16	Lynn asked about information on other potentially upcoming listing activities – little brown bat (unsure), bog lemming (maybe), wood frog (not likely)	L. Noel/J. Schmidt	Late spring/early summer
17	USFWS noted that the section on wood bison should be moved to the "Considered But Eliminated" section.	L. Noel/J. Schmidt	Late spring/early summer

**MINUTES OF MEETING**  
**USFWS Meeting Discussion**

18	Jewel/Shannon discussed that the spectacled eider evaluation would need to address footprint and nesting habitat lost, altered; normally USFWS would look at the type and amount of habitat – not just wetland classes; would need to look at alteration from buried line, ongoing impacts to hydrology, thermokarst that cause changes to migratory bird nesting habitat; suggested adaptive management for buried line and monitoring post construction.	L. Noel/J. Schmidt	Late spring/early summer
19	Shannon requested an annotated outline for the BA, especially for the sections about impacts that would be evaluated.	L. Noel/J. Schmidt	Late spring/early summer

	MOM – PROPOSED NRHP EVALUATION METHODS	USAP-PE-SAMOM-00-000007-000 28 MAY 2015 REVISION: 0
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MEETING DETAILS			
Sub-Project Name	Pipeline (Mainline)	Date of Meeting	May 27, 2015
Meeting Subject	Alaska LNG’s proposed methods for evaluating NRHP eligibility at specific sites within project corridor		
ATTENDEES			
Attended By	Organization	Attended By	Organization
Caryn Rea	Alaska LNG Project	Shina Duvall	OHA
Erika Herlugson (called in)	Alaska LNG Project		
Anthony Pennino	Alaska LNG Project		
Edmund Gaines	AECOM		
AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and Safety Moment	Ned G	5 min
2	Meeting objective: review Alaska LNG’s proposed methodology for National Register of Historic Places (NRHP) Determinations of Eligibility (DOE) at specific sites in Project corridor	Ned G	5 min
3	Review general DOE approach and NRHP criteria	Ned G	7 min
4	Review site-specific DOE methods	Ned G	5 min
5	OHA input on site-specific plans - general agreement on overall approach; indicated will continue review & provide feedback.	Shina D	25 min
6	Action items	Caryn R	5 min
7			
ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



MOM – KENAI SPUR HIGHWAY UPDATE,  
ADOT&PF AND KPB 27-MAY-15

USAL-HD-CAMOM-00-000002-000  
29-MAY-15  
REVISION: 0

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MEETING DETAILS

<b>Sub-Project Name</b>	Kenai Spur Highway Relocation	<b>Date of Meeting</b>	5/27/2015
<b>Meeting Subject</b>	MOM – Kenai Spur Highway Update, ADOT&PF and KPB		

ATTENDEES

Attended By	Organization	Attended By	Organization
Jeff Raun	Alaska LNG Project	James Baisden	Nikiski Fire Department
Mark Jennings	Alaska LNG Project	Max Best	KPB
Josselyn O'Connor	Alaska LNG Project	Larry Persily	KPB
Stephen McDaniel	Alaska LNG Project	Mike Navarre	KPB
David Bloom	ADOT&PF	Shannon Miller	ADNR/SPCO
Scott Thomas	ADOT&PF	Mark Dalton	HDR
Burrell Nickeson	ADOT&PF	Carol Snead	HDR
Ken Morton	ADOT&PF	Scott Wharton	HDR
Jennifer Witt	ADOT&PF	Leslie Robbins	HDR

AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Introductions	Jeff R.	
2	Safety moment	Carol S.	
3	Project update	Jeff R.	
3	Data collection and preliminary alternatives	Mark D.	
4	Issues identified for the decision matrix	Carol S. and Scott W.	
5	Narrowing and refinement of alternatives	Scott W.	
	Alternatives evaluation	Scott W.	
	Decision Matrix	Scott W.	
	Schedule	Scott W.	
6	Community engagement	Jeff R.	
7	Next steps	Jeff R.	

ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

# ALASKA LNG

## MINUTES OF MEETING

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	Discussion on FERC RR6 Design Requirements and Expectations
	<b>Date of Meeting:</b>	5/28/15
<input checked="" type="checkbox"/> Telephone	<b>Number:</b>	USAI-PE-SAMOM-00-000094-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Jim Glaze (phone)	FERC	Jeff Raun	Alaska LNG
Bob Bachman (phone)	Delta Consulting	Richard Raines (phone)	Alaska LNG
Kul Bushan (phone)	Delta Consulting	Billy Oliver	Alaska LNG
Adel Younan (phone)	Alaska LNG	Adrienne Rosecrans (phone)	Alaska LNG
Jeff Lipscomb (phone)	Alaska LNG	Raul Lopez (phone)	Alaska LNG
Julio Daneri (phone)	Alaska LNG	Bob Albrecht (phone)	Alaska LNG
Robert Rood (phone)	Alaska LNG	Dave Raff (phone)	Alaska LNG
Pranav Mehta (phone)	Alaska LNG	Karen Wuestenfeld	Alaska LNG
Arun Bhalaik (phone)	CH2M Hill	Elena Antonakos	Alaska LNG
Nason McCullough (phone)	CH2M Hill	Norm Scott	Alaska LNG
Robert Schulte (phone)	CH2M Hill	Jon Schmidt (phone)	exp

### DISCUSSION POINTS/ACTION ITEMS:

Item	Discussion Points/Action Items	Action Item(s) Assigned To:	Due Date
1	Introductions/Project Overview	All	
2	Discussion of Potential Site Visit	All	N/A
3	GTP Overview of Pre-FEED geotechnical plans <ul style="list-style-type: none"> <li>Most of the pre-FEED work will be focused on gravel source identification.</li> </ul>	Robert Rood	N/A
4	Discussion of level of detail expected to be in reports.	All	N/A
5	Overview of RR6 and RR13 Design Guidelines related to seismicity	Bob Bachman	N/A
6	LNG Plant Design Guidelines and use of Equivalency Methods	Dave Raaf	N/A
7	Potential Changes in Design Guidelines	All	N/A






## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Roundtable Discussion - Federal Processes for Permitting Alaska LNG Project	
Meeting Type:	Meeting/Workshop	
Meeting Subject:	Roundtable Discussion - Federal Processes for Permitting Alaska LNG Project	
Date of Meeting:	05/28/2015	
Document Control Number:	USAI-PE-SAMOM-00-000047-000	
ATTENDED BY:	ORGANIZATION:	
Ann Miles		
Claire Joseph	Alaska LNG Project	
Dr. Elizabeth Sherwood-Randall		
Dr. Paula Gant		
Kim Fox	Alaska LNG Project	
Ruben Medrano	Alaska LNG Project	
Senator Lisa Murkowski		
Tommy Beaudreau		
AGENDA ITEMS:		
Item	Agenda Item	Description
1	Introductions, Purpose	Senator Murkowski introduced the roundtable discussion and introduced the speakers on stage. Specific topics she covered included American energy policy (in particular an energy bill she is working to progress), US Arctic issues and strategies, and the Alaska Affordable Energy Strategy. She introduced the Alaska LNG Project and the importance of the Project not only for the State but also for the nation.
2	Department of Energy	<p>Deputy Secretary Elizabeth Sherwood-Randall provided an introduction to the Department of Energy and their role in assessing energy supply and demand and contributing to energy science and technology development through 17 national laboratories. She described the importance of the Arctic to the United States and committee(s) that are being put in place to guide progress on arctic issues.</p> <p>She then announced that the DOE had completed its review of the Alaska LNG Project's application to export LNG to non-free trade agreement (non-FTA) countries, and that she was pleased to announce the DOE's conditional approval of Alaska LNG export of LNG up to 2.55 BCF/day for 30 years to Non Free Trade Agreement countries. She described that the DOE considered Alaska LNG Project's application to be different than the numerous applications currently pending from the Lower 48 states, and that the DOE was committed to an efficient review in order to provide certainty and confidence to investment partners.</p> <p>Dr. Paula Gantt from DOE then described the process of evaluating the Project's DOE export license in greater detail, describing the analysis that was completed in order to ensure that the project is in the best interest of the US. Dr. Gantt emphasized the importance of the Alaska LNG Project in terms of commercializing an otherwise stranded resource, revitalizing the economy, supporting trading partners, and enhancing national security.</p>
3	Federal Energy Regulatory Commission	Ann Mullins, representing the FERC, explained the role of FERC in permitting the Alaska LNG Project. [See attached presentation presented by Ms. Mullins] She described the three-part FERC Pre-File process, which includes: company sponsored outreach, FERC-sponsored outreach, and draft resource reports. Ms. Mullins described that there are currently 7 LNG applications under review with FERC and 13 applications in the FERC Pre-File process (one of which is Alaska LNG's). Ms. Mullins highlighted the timeline of Alaska LNG

Item	Agenda Item	Description
		Project Pre-File milestones (consistent with those used by the Project) and also explained the role of FERC in coordinating other cooperating agencies in the NEPA review.
4	Department of Interior	Tommy Beaudreau described the role of the Federal Interagency Working Group for Permitting of Alaska Projects (established in 2011) which organized at highest level in Wash DC in late 2014. He emphasized coordination and cooperation among federal agencies required for efficient federal review, particularly given that the Alaska LNG Project will require more than twenty types of permits/approvals at federal level. Mr. Beaudreau also emphasized that the federal government recognizes the importance to be coordinated and responsive in engagements with Native communities.
5	Questions	Senator Murkowski and audience members then posed questions to the panel of speakers. One question from the audience asked what State revenue the Project would bring (to which the panel speakers said they could not quote exact figures). There was general discussion on the importance of interagency coordination and cooperation because of the complex nature of the permitting process.
6	Links to Articles - After the Fact	<a href="http://breakingenergy.com/2015/06/02/connecting-with-alaskas-people-and-power-resources/">http://breakingenergy.com/2015/06/02/connecting-with-alaskas-people-and-power-resources/</a>

	MOM –GAS TREATMENT PLANT REVIEW WITH FERC JUNE 3 <sup>RD</sup> 2015	REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	GTP	<b>Date of Meeting</b>	June 3 <sup>rd</sup> 2015
<b>Meeting Subject</b>	Gas Treatment Plant Review with FERC	<b>Location</b>	FERC Headquarters, Washington D.C.
ATTENDEES			
Attended By	Organization	Attended By	Organization
Raul Lopez	Alaska LNG Project	Maggie Suter	Deputy Project Manager, FERC
Robert Rood	Alaska LNG Project	Andrew Kohout	LNG Engineering Branch Manager, FERC
Ruben Medrano	Alaska LNG Project	Austin	Engineering Intern, FERC
Susan Carter	Alaska LNG Project	Heather Ferree	LNG Engineer, FERC
Nathan Butzlaff	State of Alaska, Office of the Governor	Hugh Thomas	LNG Engineer, FERC
Sandra Barnett	Alaska LNG Project		
AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions	Sandra Barnett	
2	Safety Moment	Robert Rood	
3	GTP Location	Robert Rood	
4	GTP Facility Description	Robert Rood	
5	Schedule	Raul Lopez	
6	HAZID Process and Plans	Raul Lopez	
7	Resource Report Inputs	Raul Lopez	
8	State Fire Marshal	Sandra Barnett	<b>Total Meeting Time 2 hours</b>

# Alaska LNG™

## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting  <input type="checkbox"/> Teleconference	<b>Project Name:</b>	Alaska LNG Project
	<b>Meeting Subject:</b>	Intro meeting with State Fire Marshal's Office
	<b>Date of Meeting:</b>	June 5, 2015; Anchorage, AK
	<b>Number:</b>	USAI-PE-SAMOM-00-000045-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Diana Parks	State Fire Marshal's Office	Adrienne Rosecrans	Alaska LNG Project
Lloyd Nakano	State Fire Marshal's Office	Scott Gillis	Alaska LNG Project
Jarrett Zuspan	State Fire Marshal's Office	Ruben Medrano	Alaska LNG Project
John Cawthon	State Fire Marshal's Office	Robert Rood	Alaska LNG Project
Don Perrin	SPCO	Jonathan Curniski	Alaska LNG Project
Jason Walsh	SPCO	Claire Joseph	Alaska LNG Project
Shannon Miller	SPCO	Luci Machado	Alaska LNG Project
-	-	Doug Yates	Alaska LNG Project

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Introductions, Safety Moment, AKLNG Project Overview	Scott Gillis	30 min
2	GTP, LNG / Marine and Pipeline sub-project overviews and early loss prevention philosophies	All	80 min

### DISCUSSION TOPICS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1	<b>Introductions</b> The group discussed that the purposes of the meeting were to provide the Alaska State Fire Marshal's Office (SFMO) with an early introduction to the Alaska LNG and to establish contacts for further communication.  The group discussed that it is important for the Project to engage with SFMO early in the design phases (i.e. Pre-FEED) so that requirements are properly verified and documented.	n/a	n/a

## MINUTES OF MEETING


### Intro meeting with State Fire Marshal's Office on Alaska LNG Project

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
2	<p><b>Project Overview</b>  Scott Gillis presented an overview of AKLNG Project and a technical overview of the GPT and LNG/Marine sub-projects. Jonathan Curniski presented a technical overview of the Pipeline sub-project. Adrienne Rosecrans and Ruben Medrano presented an overview of the NEPA / Regulatory process.</p> <p>Aspects of design that were discussed included: applicable codes and standards being used for design, Fire Service Guidance for Participating in LNG Terminal Evaluation, Siting and Operations (2007), and Early Loss Prevention Philosophies for each sub-project. And aspects of the NEPA / regulatory process included an overview of the different federal, state and local agencies involved in the AKLNG Project.</p> <p>It was clarified the LNG carriers were not part of the AKLNG Project.</p>	n/a	n/a
3	<p><b>Design Codes</b>  Scott Gillis explained that the Project is currently being designed according to both FERC requirements listed in the CFRs, in compliance with the Alaska Administrative Code (AAC), and additional lead party design codes and standards. The CFR and AAC required codes and standards may create discrepancies regarding which year version of the code applies. The SFMO was agreeable to working through those "pinch points" through the Alternate Means and Methods process (exceptions).</p> <p>The SFMO representatives explained that the IBC 2009 is the currently approved version. The SFMO is working on adopting IBC 2012 and eventually IBC 2015. It was stated the use of the 2012 IBC version for the AKLNG project would be acceptable. The AKLNG proposed version of the IBC can be officially documented so there are no issues when a version of the IBC is adopted by the State.</p> <p>The SFMO clarified that they do not issue a 'Certificate of Occupancy'. The SFMO issues a 'Certificate of Approval' for process and non-process type buildings. And the definition of a building is any structure with four (4) walls and a roof. All structures will require a "Plan Review".</p> <p>The SFMO informed they coordinate with the local Fire Chief to ensure the design and emergency response plans are in alignment with the fire department expectations and approval requirements before the SFMO approves our plans.</p> <p>The SFMO indicated that appointment of a new State Fire Marshal (position is currently vacant) might assist in helping provide guidance with respect to codes that should be used. The new State Fire Marshal will have the authority to make decisions and document them.</p>	n/a	n/a

## MINUTES OF MEETING

### Intro meeting with State Fire Marshal's Office on Alaska LNG Project

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
4	<b>Inspections</b> Diana Parks explained that construction phase inspections are handled by her group for buildings over \$5M. The inspections are typically performed at 60% & 90% completion.  John Canthon is the POC for operations and inspections and sits with the State Pipeline Coordinator's Office (SPCO). He commented that they believe the LNG plant may not be applicable to the Fire Marshal (FM) inspection because FERC will perform the same inspection each year. GTP and Pipeline facilities will be applicable to annual FM inspections.	n/a	n/a
5	<b>Emergency Response</b> The SFMO explained that the local fire departments must be involved in the emergency response planning. The SFMO will be checking to make sure the local departments review and approve the emergency response plans.  <u>Action:</u> Talk with Phil Suter regarding recommended timing to engage with the local fire departments to start discussing emergency response planning.	A. Rosecrans	6/30/2015
6	<b>Next Steps</b> The SFMO recommends a project review with the new State Fire Marshal, once he/she is nominated. From a technical standpoint, the AKLNG team can start engaging with Diana Parks regarding design code and discrepancy concerns.  <u>Action:</u> Loss Prevention Engineers for each sub-project team to develop a preliminary list of potential discrepancies between codes and standards, as well as potential issues related to compliance with code requirements.	Luci Machado Scott Gillis Jonathan Curniski Francisco Santos	TBD

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 5, 2015
Sub-Project Name	LNG Plant, Gas Pipeline, Gas Treatment Plant	Location	Anchorage, AK
Meeting Subject	Project Overview & Introductions		

ATTENDEES			
Name	Organization	Name	Organization
Adrienne Rosecrans	Alaska LNG Project	Luciane Machado	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Robert Rood	Alaska LNG Project
Diana Parks	Alaska State Fire Marshal’s Office	Ruben Medrano	Alaska LNG Project
Doug Yates	Alaska LNG Project	Scott Gillis	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAI-PE-SAMOM-00-000049-000 02-Nov-16
	CONFIDENTIAL	REVISION: FINAL Page 1 of 1

MEETING DETAILS			
Meeting Type	Phone Call	Date of Meeting	June 10, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Review the proposed protocols for Phase II Cultural Resource surveys with BLM archaeologists		

ATTENDEES			
Name	Organization	Name	Organization
Bill Hedman	Bureau of Land Management (BLM)	Erika Herlugson	Alaska LNG Project
Caryn Rea	Alaska LNG Project	Ned Gaines	AECOM
Earle Williams	BLM, Alaska State Office		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 11, 2015
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	Houston, TX
<b>Meeting Subject</b>	Technical Meeting Number 3		

## ATTENDEES

Name	Organization	Name	Organization
Amelia Samaras	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Sandra Barnett	Alaska LNG Project
Jeffery Gilliam	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Mario Macia	Alaska LNG Project	Josef Kopec	TransCanada
Rick Noecker	Alaska LNG Project		

## DISTRIBUTION

Name	Organization	Name	Organization


## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Objective	To continue the technical engagement with PHMSA by discussing: Confidentiality of Project Information, Independent Third Party reviewers, Alaska LNG project comments to SBD SP Conditions related to Operations, Maintenance and Integrity (12, 14, 16-23), and updates on work programs, to include strain-based design assessment with anomalies, and spacing studies for crack arrestors and main line block valves.
2	Confidential Business Information	SP's Conditions are not CBI and should be treated as an engineering standard.
3	Project Schedule and SP Filing Process	PHMSA working to standardize SBD SP conditions to a point where 90% of conditions would apply to all current projects pursuing a SBD SP (Donlin Gold, ASAP and Alaska LNG project). Donlin would like the project to review conditions 6,7, and 17 which are probably key conditions, and discuss with the project before going to draft EIS. PHMSA would like to see the SBD SP Conditions in the DEIS EIS Section/Special Permit Application describing SBD Special Permit Conditions should discuss or consider; • What is different about proposal and leads to increase risk, • How conditions mitigate potential risk, •How SBD differs from operating under code, • Explain not just what SBD is, but "why" this Pipeline differs from other pipelines, • How is SBD different than ASD; how might risk be increased, and mitigated by Conditions, •Written in plain language for generally educated public; use specific statements, avoid generic statements, •Increased risk accounted for in these ways; increased inspections, protection, design, •Communicate implications of release understood; Understand if there is a release, what is at stake, and •"We are taking this seriously" message to public PHMSA: Wrt timing, after FERC Order, PHMSA has a 30 day notice then 90 to 120 days to process. PHMSA issuance of permit contingent upon issuance of Record of Decision (ROD). Project schedule should account for 4 – 6 months after ROD to accommodate "30 day notice" period for PHMSA to complete process. There was some discussion with the conclusion that PHMSA is unsure about when SP can be issued wrt FERC and the NEPA process. Follow-up required. SP Application time is about 4 to 6 months. PHMSA: Wrt One vs. multiple SP's a "hybrid" approach could work due to complexity of the SBD SP and might lose some of the other Conditions for the other technical areas. SBD is more complicated to explain. Need to make sure PHMSA can answer public's questions. Grouping 3LPE and SBD may be an option as this is what you procure at the same time. For depth of cover, want to make sure this is included in the Agency meetings in AK. Also other agencies input is also important. For compliance, a good tracking system to enable PHMSA to readily identify pipe and welds will be important. BLM and the Corps could potentially have concerns regarding depth of cover and segment definition. Noted by PHMSA: Letter on crack arrestor spacing approved.

4	ITPR	Options discussed
5	SBD SP Conditions related to Operations, Maintenance and Integrity (12, 14, 16-23)	Reviewed
6	Main Line Block Valve Spacing Evaluation & Crack Arrestor Spacing	PHMSA definitely wants valve accessibility. PHMSA in the spotlight for leak detection, ability to isolate a section and shut it down. PHMSA has a draft rule on remote controlled valves. Any increase in spacing of a valve, would need to consider leak detection, and ability to shut system down. Look at NTSB recommendations from San Bruno (NTSB P-11-009 to NTSB P-11-020, with P-11-011 for ASVs and RSUs, and P-11-010 for leak detection). PHMSA preparing a notice of probable rule making based on NTSB recommendations. Alaska LNG project will have to incorporate these NOPR recommendations into MLBV SPA. PHMSA probably wouldn't consider increased spacing south of Coldfoot – concerns with future development. Fire impacts would be greater, south of Coldfoot. Alternate spacing between Adigan Pass and Coldfoot – maybe. Look at PIR and see how much this would impact. PHMSA also advised of concerns South of Coldfoot. P&ID of MLBV spacing would be good to see and if it exceeds 20 mile spacing, review for accessibility. Anything greater than 30 miles causes PHMSA concern. PHMSA flexible on crack arrestor spacing.
7	SBD SP segment lengths	Modification of SBD SP segment lengths after SPA submission, prior to Operations. PHMSA needs final SBD SP lengths before Nov-17 DRAFT FERC EIS to allow cooperating agencies to comment. Have about 10 months after filing to SBD SPA to modify SBD MPs. Alaska LNG Project should discuss with PHMSA before segments submitted.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MOM – TIMING OF AIR PERMITS	USAI-PE-SAMOM-00-000100-000 23-JUN-15 REVISION: 0
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MEETING DETAILS			
Sub-Project Name	Integrated	Date of Meeting	June 23 2015
Meeting Subject	Timing of air permits relative to FERC application and timing of the DEIS		
ATTENDEES			
Attended By	Organization	Attended By	Organization
Maggie Suter	FERC		
Norman Scott	Alaska LNG Project		
AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	<p>Timing of air permit applications relative to the FERC application.</p> <ul style="list-style-type: none"><li>Maggie advised that the actual air permit applications are not required for the FERC application to proceed.</li><li>Maggie advised that it was not uncommon for other similar projects to not include air permit applications in their FERC application due to timing considerations of when permit applications are submitted relative to start of construction.</li><li>Maggie did advise that an equivalent level of air quality impact modelling and mitigation analysis would be required for the FERC application or the draft EIS, in lieu of not receiving air permit applications. Maggie indicated that air permit related impact modelling analyses and NESHAP applicability evaluation were key to the information required by FERC.</li><li>Regardless of the timing of submittals, Maggie highlighted the importance of consistency of air quality impacts information and analysis between the air permit applications and the draft EIS ie. if during the EIS phase there are inconsistencies between the draft EIS and the air permit applications, updates are likely to be required for the draft EIS which would delay the EIS schedule.</li><li>Maggie also indicated that whilst it is acceptable to submit air quality information and analysis after the FERC application, the timing of the submittal may have implications for the EIS schedule (see agenda #2).</li></ul>	Maggie Suter	11:30am
2	<p>Timing of air quality data and implications for the EIS schedule.</p> <ul style="list-style-type: none"><li>Maggie advised of the following implications for timing of submittal of air quality data after the FERC application<ul style="list-style-type: none"><li>Submittal of air quality data 2-3 mths after the FERC application is unlikely to affect the draft EIS schedule.</li><li>Submittal of air quality data 6-7 mths after the FERC application is likely to delay the draft EIS schedule.</li></ul></li><li>Maggie emphasized that changes in project information are expected and can be managed, over the life of the project. This was caveated on the basis that increases in impacts and significant changes to project scope are more likely to cause delays to the EIS schedule due to requirements for re-work, as opposed to reduction in impacts and insignificant changes to project scope.</li></ul>	Maggie Suter	11:30am

3

Maggie provided general guidance as to the approach the project should take to generation of air quality content for the draft 2 and final RR 9, with consideration for the lack of engineering definition that may be available at different stages of the Draft 2 and /or final RR 9 development cycles.


- Use conservative bases for emissions estimates and impacts, to allow estimates to reduce as the project progresses. Significant increases in estimates and associated impacts are more likely to impact project schedule due to re-work, further consultation etc.
- Provide a range of emissions estimates if a definitive number is not yet available, or simply refer to the most conservative basis (as above). Maggie referred to the scenario where a range of vessel emissions could be generated based on a selection of different suitable vessel types, as a good example of how this principle could be applied.
- Provide generic equipment specifications if equipment selection is not yet finalized.
- Provide multiple options for mitigation measures under consideration, if the final recommendation is not yet available.

Maggie Suter

11:30am

### ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date
1	None arising For noting only.		
2			
3			

	STAKEHOLDER MOM – PIPELINE WATERBODY CROSSINGS WORKSHOP	USAP-PE-SAMOM-00-000002-000 25-JUN-15 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	June 25, 2015
<b>Meeting Subject</b>	Pipeline Waterbody Crossings Multi-Agency Workshop	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Attended By	Attended By	
DNR-DGGS	<b>Alaska LNG Project Contractors</b> <ul style="list-style-type: none"> <li>AECOM</li> <li>Exp</li> <li>Hawk</li> <li><b>WimVeldman (Presenter)</b></li> </ul> Worley Parsons	NRG (FERC)	KPB
DEC-Wastewater	USFWS	ADHHS (New Fields)	ADF&G
BLM	DNR-SPCO	ADHSS	USCG (Bridge Administration Program)
USEPA	NOAA Fisheries	DNR/SPCO	NPS
		ADHSS	AlaskaLNGProject


DISTRIBUTION			
Name	Organization	Name	Organization
PSC			
Stakeholder Data Base			

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and hotel safety	Anthony Pennino	9:05 am
2	Safety Moment-fatigued driving	Jack Everts	
3	Waterbody crossings	Wim Veldman	Start 9:15
4	Trenchless Crossings	Wim Veldman	Start 12:15
5			Finish 1:20 pm

DISCUSSION		
Item	Discussion / Notes	Comments
1	Introductions-approximately 15% of audience is new from June 24 <sup>th</sup> . Safety Moment	
	<b>Waterbody Crossings</b>	Wim Veldman Start
	Overview- Number of water body crossings and equipment bridges –total 446 waterbody crossings for the mainline only. Noted that method and timing of construction are under evaluation and will require consultation with FERC and cooperating agencies. PTTL has 4 main crossings.	

#### STAKEHOLDER MINUTES OF MEETING


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	STAKEHOLDER MOM – <b>PIPELINE WATERBODY CROSSINGS WORKSHOP</b>	USAP-PE-SAMOM-00-000002-000 25-JUN-15 REVISION: 0
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DISCUSSION		
Item	Discussion / Notes	Comments
	Open cut methodologies Best approach -practical plans developed with the agencies	
2	Several TAPs river crossings were reviewed (photos taken during TAPS 1975 and 1976 construction shown) with a voice over of issues encountered during construction at those rivers which are the same rivers that AKLNG will encounter.	
	Noted, not locking a contractor into a crossing technique because of changes that can occur at a site is	
	The principles and keys to success for open cut were reviewed: <ul style="list-style-type: none"> <li>• Know crossing conditions, Optimize schedule</li> <li>• Develop work plan</li> <li>• Up front planning</li> <li>• Be proactive</li> <li>• Know what you can and cannot commit to perform</li> </ul>	
	Noted, the USCG stated that jurisdiction for bridge permits extends from the beginning to end of the floodplain not just across the river per se....for example, a braided river.	
	Flow Isolation: Noted; 350 cfs is the practical upper limit that has even been flumed. Examples were shown of flow isolation techniques and requirements and considerations discussed. Principles and Keys to Success were reviewed: <ul style="list-style-type: none"> <li>• Reduce as much as practical the construction affected water to be treated via sediment pond.</li> <li>• Dewater only as necessary</li> <li>• Snow and natural depressions can be excellent natural settlement areas &amp; winder conditions can be an advantage</li> <li>• Material &amp; equipment need to be on-site before commencing in-stream work</li> <li>• Upsets may occur, be prepared</li> </ul>	Start 10:25
	A table was presented showing best techniques for flow isolation structures given a river/streambed condition	
	Four examples were shown of AKLNG crossing using flow isolation: M.F. Koyukuk River Slate Creek S. F. Koyukuk River Jim River (~MP 273)	
	HDD for small crossing-impracticality briefly reviewed.	
	Site specific plans can be necessary but flexibility wrt specifications for crossings provides optimum results and schedule	

#### STAKEHOLDER MINUTES OF MEETING


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DISCUSSION		
Item	Discussion / Notes	Comments
	Specific crossing methodologies. Principles and keys to success: <ul style="list-style-type: none"> <li>• Similar to open cut and flow isolation</li> <li>• Know local conditions over multiple years</li> <li>• Up front planning</li> <li>• Tool box of equipment on suite or readily available</li> <li>• Assign dedicated and experienced river crossing personnel</li> </ul>	
	Typical bank and bed reinstatement was reviewed with examples provided with photos	
	<b>Trenchless Crossings (HDD)</b>	
	5 HDD crossing under consideration- unknown if these are feasible alternatives at this time. <ul style="list-style-type: none"> <li>• M.F. Koyukuk River</li> <li>• Yukon</li> <li>• Chulitna</li> <li>• Deshka</li> </ul> Questions were related to HDD included mud release, construction mechanics, heavy wall pipe geometry, preferred soil and geologic conditions.	
	Aerial Crossings proposed: consideration of in stream work is important <ul style="list-style-type: none"> <li>• Nenana River at Moody (MP532.6)</li> <li>• Fox creek (MP534.4)</li> <li>• Lynx creek (MP538.4)</li> <li>• Nenana At Windy (MP561.3)</li> </ul> Visibility for each of these areas from Denali National Park as well as the Railway Bridge was discussed by the group.	
	Questions and discussion during the workshop covered: <ul style="list-style-type: none"> <li>• Pipeline coating and depth of cover-how is coating protected during pipe lay and how is depth of cover assured and monitored</li> <li>• General questions related to in-stream construction</li> <li>• Permafrost at river crossings</li> <li>• Floodplains and USCG jurisdiction</li> <li>• Construction ROW width</li> <li>• BLM-minimization of impacts to overwintering areas</li> <li>• Installation of thick wall pipe</li> <li>• HDD</li> <li>• Viewshed impacts</li> <li>• Invasive species</li> <li>• Operational ROW maintenance</li> </ul>	

# STAKEHOLDER MINUTES OF MEETING

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	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 24, 2015
Sub-Project Name	Integrated (All Segments)	Location	1849 C Street Northwest, Washington, DC 20240
Meeting Subject	Alaska LNG Project Update Meeting with Chief of Staff - USDOl		


ATTENDEES			
Name	Organization	Name	Organization
Elizabeth Reicherts	BP DC Office	Susan Carter	ExxonMobil
Kevin Avery	ConocoPhillips	Tom Roberts	BP DC Office
Randy Bowman		Tommy Beaudreau	United States Department of the Interior (USDOl)
Steve Butt	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



	STAKEHOLDER MOM – PIPELINE WATERBODY CROSSINGS WORKSHOP	USAP-PE-SAMOM-00-000002-000 25-JUN-15 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	June 25, 2015
<b>Meeting Subject</b>	Pipeline Waterbody Crossings Multi-Agency Workshop	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Attended By	Attended By	
DNR-DGGS	<b>Alaska LNG Project Contractors</b> <ul style="list-style-type: none"> <li>AECOM</li> <li>Exp</li> <li>Hawk</li> <li><b>WimVeldman (Presenter)</b></li> </ul> Worley Parsons	NRG (FERC)	KPB
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BLM	DNR-SPCO	ADHSS	USCG (Bridge Administration Program)
USEPA	NOAA Fisheries	DNR/SPCO	NPS
		ADHSS	AlaskaLNGProject

DISTRIBUTION			
Name	Organization	Name	Organization
PSC			
Stakeholder Data Base			

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
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	<b>Waterbody Crossings</b>	Wim Veldman Start
	Overview- Number of water body crossings and equipment bridges –total 446 waterbody crossings for the mainline only. Noted that method and timing of construction are under evaluation and will require consultation with FERC and cooperating agencies. PTTL has 4 main crossings.	


#### STAKEHOLDER MINUTES OF MEETING

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DISCUSSION		
Item	Discussion / Notes	Comments
	Open cut methodologies Best approach -practical plans developed with the agencies	
2	Several TAPs river crossings were reviewed (photos taken during TAPS 1975 and 1976 construction shown) with a voice over of issues encountered during construction at those rivers which are the same rivers that AKLNG will encounter.	
	<p>The principles and keys to success for open cut were reviewed:</p> <ul style="list-style-type: none"> <li>• Know crossing conditions, Optimize schedule</li> <li>• Develop work plan</li> <li>• Up front planning</li> <li>• Be proactive</li> <li>• Know what you can and cannot commit to perform</li> </ul>	
	Noted, the USCG stated that jurisdiction for bridge permits extends from the beginning to end of the floodplain not just across the river per se....for example, a braided river.	
	<p>Flow Isolation: Noted; 350 cfs is the practical upper limit that has even been flumed. Examples were shown of flow isolation techniques and requirements and considerations discussed.</p> <p>Principles and Keys to Success were reviewed:</p> <ul style="list-style-type: none"> <li>• Reduce as much as practical the construction affected water to be treated via sediment pond.</li> <li>• Dewater only as necessary</li> <li>• Snow and natural depressions can be excellent natural settlement areas &amp; winter conditions can be an advantage</li> <li>• Material &amp; equipment need to be on-site before commencing in-stream work</li> <li>• Upsets may occur, be prepared</li> </ul>	Start 10:25
	A table was presented showing best techniques for flow isolation structures given a river/streambed condition	
	<p>Four examples were shown of AKLNG crossing using flow isolation:</p> <p>M.F. Koyukuk River</p> <p>Slate Creek</p> <p>S. F. Koyukuk River</p> <p>Jim River (~MP 273)</p>	
	HDD for small crossing-impracticality briefly reviewed.	
	Site specific plans can be necessary but flexibility wrt specifications for crossings provides optimum results and schedule	

# STAKEHOLDER MINUTES OF MEETING

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	STAKEHOLDER MOM – <b>PIPELINE WATERBODY CROSSINGS WORKSHOP</b>	USAP-PE-SAMOM-00-000002-000 25-JUN-15 REVISION: 0
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DISCUSSION		
Item	Discussion / Notes	Comments
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	Typical bank and bed reinstatement was reviewed with examples provided with photos	
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	Questions and discussion during the workshop covered: <ul style="list-style-type: none"> <li>• Pipeline coating and depth of cover-how is coating protected during pipe lay and how is depth of cover assured and monitored</li> <li>• General questions related to in-stream construction</li> <li>• Permafrost at river crossings</li> <li>• Floodplains and USCG jurisdiction</li> <li>• Construction ROW width</li> <li>• BLM-minimization of impacts to overwintering areas</li> <li>• Installation of thick wall pipe</li> <li>• HDD</li> <li>• Viewshed impacts</li> <li>• Invasive species</li> <li>• Operational ROW maintenance</li> </ul>	

# STAKEHOLDER MINUTES OF MEETING

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MOM – INDUSTRY SUPPORT FOR BELUGA WHALE  
RESEARCH

USAL-PE-SAMOM-00-000023-000  
01-JUL-15  
REVISION: 0  
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MEETING DETAILS

<b>Sub-Project Name</b>	LNG / Marine	<b>Date of Meeting</b>	July 1, 2015
<b>Meeting Subject</b>	Collaborative Research Opportunities		


ATTENDEES

Attended By	Organization	Attended By	Organization
Caryn Rea	Alaska LNG Project		
Mandy Migura	NMFS		
Barbara Mahoney	NMFS		

**AGENDA ITEMS**

Item	Agenda Item(s)	Leader	Time
1	<p>Opportunities for Collaborative Research</p> <p>Reviewed the Draft Recovery Plan's Implementation Schedule in Section VII. Suggestions by NMFS for data collection efforts that could also help the Alaska LNG project with construction planning (need for mitigation and/or monitoring):</p> <ul style="list-style-type: none"> <li>• Participate as a collaborator on the photo-identification project being managed by LGL for the last 7 or 8 years. A large catalogue of data has been gathered on individual animals, indicating that the same animals are returning to the upper Cook Inlet each year. The study is also useful in assessing the presence of a calf since the researchers can get closer to the animals (versus aircraft), an indication of reproductive success. ConocoPhillips has supported this study since its inception, however is not supporting it in 2015 due to cost cutting measures. We could focus LGL's efforts between the Susitna and Beluga Rivers to help provide information for our project – NMFS could leverage their monies to gather data on the east of Fire Island and into Knik Arm.</li> <li>• Conduct aerial surveys west of Fire Island to the Beluga River, as well as around the Kenai River (in spring and fall). This would provide information on presence/absence of the belugas in specific areas at specific times; information that would be valuable to the Alaska LNG as we plan our mitigation measures. This morphed into a discussion about the use of Unmanned Aerial Systems (UAS) for monitoring, likely at a lesser cost for a larger data set. Mandy referred me to Ro Bailey at UAF for further discussion about UAS'. NOAA has its own UAS division in Colorado and I discussed an upcoming UAS program in the Beaufort Sea this August by NMML.</li> <li>• Combining the photoidentification work with aerial would provide actual 'ground truthing' of the aerial surveys as well, a component that has been missing for the NMML program.</li> <li>• Item #8 on pg 154 – Organize an annual review and coordination workshop with beluga whale researchers. This would be a forum to exchange information and plan for collaborative science, thus leveraging costs among various user groups.</li> <li>• Item 22b on pg 162. Long term habitat monitoring. This would feed into a larger ecosystem level program for Cook Inlet which is another discussion to have with the various operators/users of Cook Inlet. This may be something to look toward in the future but not at this juncture in the program.</li> <li>• Item 19c on pg 160. Long term monitoring of sound levels in Cook Inlet. My suggestion would be to identify what acoustic monitoring has been done in Cook Inlet to date, the results and location of the data.</li> </ul>		

2	<p>Data Sharing</p> <ul style="list-style-type: none"> <li>NMFS would like to see industry work together to share data amongst themselves but also with NMFS scientists. NMFS has hired Axiom to build a database for them where data can be housed and accessed by scientists. It will be called the Cook Inlet Beluga Whale Sightings Mapper and will be a sub layer to the larger data portal being developed by Alaska Ocean Observing System (AOOS). Item 31e makes reference to such a collaboration, which I agree should be pursued. NMFS has already developed a template for data submittal and future IHAs will have a requirement to upload monitoring data to this site.</li> </ul> <p>In my discussions with other industry companies, I will cite the</p>		
3	<p>NMFS' Species in the Spotlight Program</p> <p>According to Mandy, NMFS has launched a "Species in the Spotlight: Survive to Thrive" initiative. The Cook Inlet Beluga Whale is one of 8 NMFS' species nationwide to be highlighted in 2015 through a national campaign. The goal is to raise public awareness about the beluga whales.</p> <p>More information on this program can be found at the following link: <a href="http://www.nmfs.noaa.gov/stories/2015/05/05_14_15species_in_the_spotlight.html">http://www.nmfs.noaa.gov/stories/2015/05/05_14_15species_in_the_spotlight.html</a></p>		
ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 13-May-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 10, 2015
Sub-Project Name		Location	CRC Evans Pipe Testing Facility Highline Drive, Montgomery, TX 77316
Meeting Subject	Pipeline Special Permits		

ATTENDEES			
Name	Organization	Name	Organization
Mario Macia	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Nathan Nissley	ExxonMobil Development Corp	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Rick Noecker	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	PHMSA Technical Discussion and Tour of CRC Evans Pipe Test Facility in Houston TX	1. Review laska LNG project full scale test specimen fabrication and inspection activities 2. Discusproject comments to DGLLC SP conditions

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	PHMSA SP Timing		
Meeting Type:	Face to face		
Meeting Subject:	PHMSA Update on SP Timing in Relation to FERC EIS		
Date of Meeting:	07/14/2015		
Document Control Number:	USAP-PE-SAMOM-00-000009-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Amelia Samaras	Pipeline and Hazardous Materials Safety Administration		
Rick Noecker	Alaska LNG Project		
Sandra Barnett	Alaska LNG Project		
Steve Nanney	United States Department of Transportation (USDOT)		
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Special Permit Timing	PHMSA has discussed timing of SP issuance with FERC (Jim Martin). PHMSA can initiate their public comment period when the DRAFT FERC EIS is issued. The timeline that AKLNG showed PHMSA accurately portrayed actions that PHMSA can take prior to the FEIS. PHMSA is flexible with the SBD SP language to a time that works for the Project's schedule. Conclusion: PHMSA is at this time uncertain if they can issue a SP based on the FEIS or if the FERC ROD is required before a PHMSA SP can be issued.	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



### MEETING DETAILS

<b>Sub-Project Name</b>	Alaska Office of History and Archaeology—Alaska LNG Section 106 meeting	<b>Date of Meeting</b>	July 29, 2015
<b>Meeting Subject</b>	Overview, strategies, and approach to Alaska LNG's Section 106 obligations		

### ATTENDEES

Attended By	Organization	Attended By	Organization
Caryn Rea	Alaska LNG Project	Shina Duvall	OHA
Erika Herlugson	Alaska LNG Project	Dr. Richard Vanderhoek	OHA
Edmund Gaines	AECOM		

### AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Introductions and Safety Moment	Caryn R./Erika H.	3 min
2	Meeting objective: review Alaska LNG's strategy, schedule and approach to Section 106 compliance: PA, NRHP DOEs, strategies for mitigating adverse effects, consulting parties, consultation and compliance timeline.	Ned G	2 min
3	Programmatic Agreement (PA) process: consulting parties, timeframe, schedule	Shina Duval	5 min
4	PA notes: start early—major schedule risk is due to large # of consulting parties; correspondence, consultation and negotiations with rural villages can be time-consuming; need to ask FERC about their timeline for starting the PA process. FERC will ask the Applicant to draft the initial PA.	Shina D	3 min
5	PA will include, but not be limited to: survey protocols for re-routes, unanticipated discoveries protocols, avoidance, minimization, monitoring, and potential/proposed? mitigation strategies, and other procedures and commitments for satisfying Section 106 obligations.	Shina D	2 min
6	PA timeframe = 6 to 18 mos total for preparation and completion.	Shina D	2 min
7	PA: can provide preliminary draft to rural communities for input early in the process, but important to note when doing so that Alaska LNG is not predetermining the outcome of the PA process.	Caryn R	3 min
8	PA will include addendums and appendices with protocols, treatment plans & data recovery and other mitigation plans. Make sure the PA is flexible enough to allow for the addition of additional eligible sites.	Rich V	3 min
9	Mitigation is always possible when a project will adversely affect a historic property; Section 106 will never stop a project.	Rich/Shina/Ned	2 min
10	Mitigation: standard mitigation is data-recovery excavation. SHPO can provide examples of standard stipulation language.	Shina/Rich	5 min

### MEETING DETAILS

<b>Sub-Project Name</b>	Alaska Office of History and Archaeology—Alaska LNG Section 106 meeting	<b>Date of Meeting</b>	July 29, 2015
<b>Meeting Subject</b>	Overview, strategies, and approach to Alaska LNG's Section 106 obligations		

### ATTENDEES

Attended By	Organization	Attended By	Organization
Caryn Rea	Alaska LNG Project	Shina Duvall	OHA
Erika Herlugson	Alaska LNG Project	Dr. Richard Vanderhoek	OHA
Edmund Gaines	AECOM		


### AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Introductions and Safety Moment	Caryn R./Erika H.	3 min
2	Meeting objective: review Alaska LNG's strategy, schedule and approach to Section 106 compliance: PA, NRHP DOEs, strategies for mitigating adverse effects, consulting parties, consultation and compliance timeline.	Ned G	2 min
3	Programmatic Agreement (PA) process: consulting parties, timeframe, schedule	Shina Duval	5 min
4	PA notes: start early—major schedule risk is due to large # of consulting parties; correspondence, consultation and negotiations with rural villages can be time-consuming; need to ask FERC about their timeline for starting the PA process. FERC will ask the Applicant to draft the initial PA.	Shina D	3 min
5	PA will include, but not be limited to: survey protocols for re-routes, unanticipated discoveries protocols, avoidance, minimization, monitoring, and potential/proposed? mitigation strategies, and other procedures and commitments for satisfying Section 106 obligations.	Shina D	2 min
6	PA timeframe = 6 to 18 mos total for preparation and completion.	Shina D	2 min
7	PA: can provide preliminary draft to rural communities for input early in the process, but important to note when doing so that Alaska LNG is not predetermining the outcome of the PA process.	Caryn R	3 min
8	PA will include addendums and appendices with protocols, treatment plans & data recovery and other mitigation plans. Make sure the PA is flexible enough to allow for the addition of additional eligible sites.	Rich V	3 min
9	Mitigation is always possible when a project will adversely affect a historic property; Section 106 will never stop a project.	Rich/Shina/Ned	2 min
10	Mitigation: standard mitigation is data-recovery excavation. SHPO can provide examples of standard stipulation language.	Shina/Rich	5 min

11	A variety of creative non-standard mitigation approaches are possible, if all consulting parties agree: education, outreach, technology (e.g. app with interpretive historical info; "next stop" history); mitigation "bank" (akin to wetlands); helping museums...etc. Rich noted a potential project that SHPO is working toward with the Ahtna Corporation in Copper River Valley and the school district; documenting their history in this area. Need to be able to show a "demonstrable benefit" to the community.	Shina/Rich/Caryn/Erika	10 min
12	Determinations of National Register eligibility (DOE)/Phase II	Shina/Ned	10 min
13	DOEs typically require fieldwork, although there are some sites on alignment obviously eligible or ineligible. Shina reiterated that sites must be determined to be eligible for the National Register of Historic Places before we need to consider avoidance or mitigation measures.	Ned/Shina	3 min
14	OHA recommends sending in DOE's in "batches" of sites for review by DOE committee. Caryn confirmed with Ned that the Alaska LNG project currently has about 40 sites that could be submitted for review as the Project progresses the current Phase II sites.	Shina/Caryn	2 min
15	Quick overview of Traditional Cultural Landscapes and Traditional Cultural Properties	Shina/Rich/Ned	10 min
16	TCLs and TCPs will not stop projects; if Tribes want to stop projects, Section 106 will not be the avenue.	Shina	2 min
17	Proposed Chuitna TCL: OHA recommends approaching Tyonek early; the USACE is working on the request for Chuitna TCL. Confirmed that the Chuitna Archaeological District is within the TCL.	Shina	1 min
18	OHA highly recommends a FERC scoping meeting in Tyonek	Shina	1 min
19	Possibility of forensic canine team to identify gravesites near Tyonek; discuss with Dave McMahan	Ned/Rich	1 min

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAP-PP-SAMOM-10-000008-000 13-May-16
	CONFIDENTIAL	REVISION: FINAL Page 1 of 1

MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 29, 2015
Sub-Project Name	Gas Pipeline	Location	8701 North Gessner Road, Houston, TX 77064
Meeting Subject	Strain Base Design ITP Review Kick Off Meeting with DNVGL		

ATTENDEES			
Name	Organization	Name	Organization
Bill Bruce	Det Norske Veritas (U.S.A.), Inc	Rick Noecker	Alaska LNG Project
Burke Delanty	Det Norske Veritas (U.S.A.), Inc	Sandra Barnett	Alaska LNG Project
Erling Ostby	Det Norske Veritas (U.S.A.), Inc	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Mario Macia	Alaska LNG Project	Thomas Bubenik	Det Norske Veritas (U.S.A.), Inc
Michael Zhang	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Summary of Meeting	<p>The following are key takeaways • Significant clarification in DNV GL's understanding of the purpose of the SBD SP conditions related to mechanical testing, particularly FSTing. The purposes are to not only to evaluate the materials, but to verify the strain capacity models. This is particularly the case with the full scale test program. • SBD ITPR Extranet will be used for communicating key inputs and deliverables amongst the three parties (DNV GL, PHMSA and Alaska LNG Project), with documents labeled "confidential business information" as appropriate. • Comments to SBD SP conditions will occur using a multi-staged approached with DNV GL providing comments and questions by the end of August, which PHMSA and the project will respond to. Final DNV GL comments will be by end of December / January •</p>

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	PHMSA SP Filing Process and Schedule
Meeting Type:	Face to face
Meeting Subject:	PHMSA SP Filing Process and Schedule
Date of Meeting:	07/30/2015
Document Control Number:	USAP-PP-YAMOM-10-000009-000
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Mario Macia	EMDC
Michael Zhang	Alaska LNG Project
Rick Noecker	Alaska LNG Project
Sandra Barnett	Alaska LNG Project
Steve Nanney	United States Department of Transportation (USDOT)
Amelia Samaras	Pipeline and Hazardous Materials Safety Administration (PHMSA)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Summary of Meeting	<p>PHMSA's issuance of SPs is tied to the FERC Final EIS (May-18), not the FERC Record of Decision (ROD). PHMSA will be able to issue their own ROD 30-60 days after the FEIS. This keeps the issuance of PHMSA SPs off critical path and is the best timing we could expect given the legal/regulatory framework of FERC/NEPA.</p> <ul style="list-style-type: none"><li>- PHMSA took no objection to changing the requirement to provide SBD Plan 1 from six months prior to rolling plate for pipe to one month, so long as an ITPR is reviewing key AKLNG SBD Plan elements as they are being developed. This agreement, combined with the above bullet point, decreases the PHMSA SP schedule pressure.</li><li>- PHMSA is receptive to considering AKLNG's case for use of 3LPE in lieu of FBE via the "request for interpretation" process, with supporting information. This is a significant step since applying for a 3LPE Special Permit was no longer viable given the constraints of the FERC/NEPA schedule. On 20 Aug AKNLG will present a plan and schedule of delivery of supporting information for use of 3LPE to PHMSA.</li><li>- PHMSA reconfirmed that a switch from 42" to 48" diameter would have no significant PHMSA related impact. PHMSA saw benefit in AKLNG continuing with its 42" test program as the data would be used for verifying the strain capacity models.</li></ul>

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## ATTENDEES OF MEETING

<b>Locations:</b> Seattle, WA Call-in from other locations	<b>Meeting Name:</b>	Alaska LNG - EPA Region 10 Air Quality Meeting
	<b>Meeting Subject:</b>	Alaska LNG Project Air Quality Discussion
	<b>Date of Meeting:</b>	8/5/2015

## ATTENDEES BY LOCATION

SEATTLE, WA			
ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Jim Pfeiffer	Alaska LNG Project	Herman Wong	EPA
Norm Scott	Alaska LNG Project	Hanh Shaw	EPA
Brian Hoefler	SLR for Alaska LNG	Zach Hedgpeth	EPA
CALL-IN			
ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Maggie Suter	FERC	Kevin Wright	NRG – FERC Contractor
Harry Jeudy	FERC	Ashley Rosia	NRG – FERC Contractor
John Notar	NPS – Denver	Alan Schuler	Alaska DEC
Mark Jen	EPA – Anchorage	Bruce Macdonald	SLR for Alaska LNG
Andrea Stacy	NPS – Denver	Al Trbovich	SLR for Alaska LNG
Catherine Collins	USFWS – Denver	Tom Damiana	AECOM for Alaska LNG
Deyna Kuntzsch	USFS – Anchorage	Bart Leininger	ALG for Alaska LNG
Jennifer Lee	NRG – FERC Contractor	Jon Schmidt	exp for Alaska LNG
Alan Peck	BLM - Anchorage		

## ATTENDEES BY ORGANIZATION

ALASKA LNG PROJECT			
Jim Pfeiffer	Brian Hoefler (SLR)	Al Trbovich (SLR)	Bart Leininger (ALG)
Norm Scott	Bruce Macdonald (SLR)	Tom Damiana (AECOM)	Jon Schmidt (exp)
ENVIRONMENTAL PROTECTION AGENCY (EPA)			
Herman Wong	Hanh Shaw	Zach Hedgpeth	Mark Jen
FEDERAL ENERGY REGULATORY COMMISSION (FERC)			
Maggie Suter	Jennifer Lee (NRG)	Ashley Rosia (NRG)	
Harry Jeudy	Kevin Wright (NRG)		
NATIONAL PARK SERVICE (NPS)			
John Notar	Andrea Stacy		
U.S. FISH AND WILDLIFE SERVICE (USFWS)			
Catherine Collins			
U.S. FOREST SERVICE (USFS)			
Deyna Kuntzsch			
ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC)			
Alan Schuler			



## MEETING SUMMARY AND ACTION ITEMS

<b>Locations:</b> Seattle, WA Call-in from other locations	<b>Meeting Name:</b>	Alaska LNG – EPA Region 10 Air Quality Meeting
	<b>Meeting Subject:</b>	Alaska LNG Project Air Quality Discussion
	<b>Date of Meeting:</b>	8/5/2015
	<b>Doc. No:</b>	USAI-PE-SAMOM-00-000108-000
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>
See attached attendee list		

### Summary

#### Meeting Objectives:

1. Familiarize the federal agency staff with the Alaska LNG project.
2. Obtain feedback about the proposed data sources for air quality and meteorology.
3. Obtain feedback about a general approach to modeling impacts from sources (under NEPA).
4. Identify other air quality related issues, under NEPA, that are not captured in the current plan.

The presentation by Alaska LNG closely followed the materials in the Power Point presentation, which was distributed to meeting participants. The focus of these notes is to identify questions and issues that were raised, and any key points of discussion.

1. FERC indicated that its pre-filing process requires a minimum of 6 months. This time period ensures that applicants have sufficient time to address issues raised by stakeholders.
2. John Notar (NPS) requested that the PM<sub>2.5</sub> analysis include elemental carbon in the modeled emissions as a separate species to reflect diesel exhaust emissions during construction. He also requested that VISCREEN modeling include this parameter as “soot.”
3. The status of proposed meteorological monitoring at Deadhorse is that a QAPP has been submitted to ADEC for review. Approval is pending. Alaska LNG expects to have this station operational in 4Q15. This station will include 2-meter temperature for delta T.
4. EPA suggested that Alaska LNG account for ozone and secondary PM<sub>2.5</sub>.
5. Alaska LNG suggested SO<sub>2</sub> modeling may not be needed at compressor stations due to low potential SO<sub>2</sub> emissions from combustion of pipeline-quality gas.
6. NPS requested that AERMOD be used for modeling deposition for nitrogen and sulfur, although sulfur emissions will be very low. Nitrogen deposition modeling may suffice if sulfur emissions are confirmed to be insignificant.
7. Alaska LNG expects to install new combustion turbines with dry low NO<sub>x</sub> combustion technology only. SCR and ammonia are not expected to be used.
8. Alaska LNG expects NO<sub>x</sub> concentration in turbine emissions to be about 15 ppm at 15% O<sub>2</sub>. NO<sub>x</sub> concentration will definitely be below the applicable NSPS limit.
9. A question was raised about background SO<sub>2</sub> data. Denali SO<sub>2</sub> data is somewhat dated (late 1990s) so datasets from farther away may be used to characterize background concentrations.
10. John Notar noted that the Bettles site has an IMPROVE monitoring system, which includes ammonia and an NADP (National Atmospheric Deposition Program) dataset.

## MINUTES OF MEETING

Alaska LNG EPA Meeting – Seattle, WA – 8/5/2015

### Summary

11. Kenai Airport National Weather Service meteorological data is a possible backup data source for modeling the LNG site. Alan Schuler (ADEC) indicated that the Kenai Airport data have been used in previous modeling for the same area, and would be representative of the LNG Plant location.
12. ADEC pointed out that the 10-m wind data at the new LNG monitoring site may not meet the PSD quality criteria because the anemometer is impacted by nearby trees. Modeling will be conducted using the 30-m and 60-m data.
13. Herman Wong (EPA) indicated that modeling of GMT1 in the recent SEIS used a North Slope WRF dataset for 2009-12. This dataset is available to AK LNG from Bret Anderson (USFS) or Tim Allen (USFWS).
14. Herman Wong will check if the University of Alaska has a newer WRF dataset for Southcentral Alaska and Cook Inlet.
15. After further research into the availability and quality of ambient air quality datasets identified in the modeling approach for the pipeline route, several adjustments were suggested by Alaska LNG. These included for NO<sub>2</sub> using either Donlin Gold ambient AQ data or the ADEC default background concentration for minor source fast track permitting, and, rather than using Denali NPS data for SO<sub>2</sub>, using either Umiat or Donlin Gold SO<sub>2</sub> data. No objections were raised to these suggestions.
16. Conformity was mentioned, but no comments were provided.
17. EPA suggested that Alaska LNG include a review of Environmental Justice including air quality impacts on low income or indigenous peoples. Alaska LNG indicated that this topic will be covered in RR8.
18. EPA indicated that this meeting is the earliest the agency has ever been contacted about a project this size for inclusion in NEPA. Specific EPA comments included:
  - a. For calculating emissions, document data sources and assumptions. EPA may have concerns if some calculations are not well based.
  - b. Do not use optimistic calculations or assumptions.
  - c. Provide a basis and citation for emission factors, and include a copy of a referenced report if the data are not readily available on the web.
  - d. For fugitive dust, do not make optimistic assumptions about emission control (such as 90 percent emission control for watering). Be realistic rather than optimistic and use real data to support assumptions if possible.
19. NPS requested that the cumulative air impact analysis review existing stationary sources within 300 km of the site to determine if those sources should be included in the modeling.
20. Several requests were made by agencies for a formal modeling protocol with complete details for the GTP, pipeline, and LNG Plant. The high level modeling approach provided by Alaska LNG in June did not have sufficient detail to ensure that modeling would meet agency expectations. Alaska LNG indicated that it intends to provide a modeling protocol once sufficient project details are available. However, a timeline for this action has not yet been established.
21. Participants inquired about the use of the latest AERMOD model version, which was just released in late July 2015 (version 15181). Alaska LNG indicated that it would likely use the former AERMOD version for Draft 2 RR9, but would likely switch to the new version for the final FERC application. Alan Schuler indicated that ADEC expected use of the latest version for air permitting.
22. NPS expects construction emissions to be modeled to determine impacts. As an example of a typical project in close proximity to an environmentally sensitive area, John Notar cited a highway construction project adjacent to a Lower 48 National Park where NPS requested modeling of construction emissions.
23. Alaska LNG stated that RR9 Draft 2 will not include visibility modeling, but the final application will.



## MINUTES OF MEETING

Alaska LNG EPA Meeting – Seattle, WA – 8/5/2015

### Summary

24. Andrea Stacy (NPS) requested further details to understand how the cumulative modeling will be conducted. In addition, she sought more details to confirm the Q in Q/D, including an opportunity to review the Q data before moving ahead with the modeling. Need critical assumptions for emissions.
25. John Notar asked if Alaska LNG could make a proposal for cumulative analysis with CALPUFF, for several sources and major construction activities to NPS, USFWS, and EPA Region 10.
26. The agencies encouraged conference calls to discuss progress and resolve details as the project goes forward. Conference calls are a more efficient use of time than written correspondence.

### **ACTION ITEMS:**

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>



## MEETING AGENDA

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	Overview of Visual/Aesthetics Study Plan
	<b>Date of Meeting:</b>	August 7, 2015 @ SPCO Offices
<input checked="" type="checkbox"/> Telephone	<b>Number:</b>	USAI-PE-SAMOM-00-000051-000


ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Caryn Rea	Alaska LNG Project	David Griffin	ADNR/Parks
Cory Larson (phone)	BLM	BILL RICHARDS	E&E
Chris Humphrey (phone)	Exp	James Sowerwine	ADNR/ML&W
Mark Morones	ADNR/OPMP	Brooke Merrell (phone)	NPS
Shannon Miller	ADNR/SPCO	_____	_____
_____	_____	Jewel Bennett (phone)	USFWS
Randy Goodwin (phone)	BLM	Jennifer Lee (phone)	NRG
Earle Williams (phone)	BLM	Jennifer Flathman	EXP
Brandon McCutcheon (phone)	ADNR/ML&W	_____	_____
Anthony Pennino	Alaska LNG Project	Shina Duvall (phone)	ADNR/SHPO
Dan Flo (phone)	NRG	Ryan Thomas	ADNR/Parks
Richard Williams (phone)	E&E	Joseph Donaldson (phone)	E&E
Amy Karn	ADNR/ML&W	Tyler Fanning	ADNR/ML&W
_____	_____	Mark Henspeter	ADNR/ML&W
Erika Herlugson (phone)	Alaska LNG Project	Brittany Smith (phone)	ADNR/ML&W
Cory Larson (phone)	BLM	Monica Alvarez (phone)	ADNR/ML&W

### AGENDA ITEMS:


<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Introductions	All	03:00
2	Safety Moment	Shannon Miller	02:00
3	Meeting Objectives	Caryn Rea	05:00
4	Overview of Study Plan	Jennifer Flathman	45:00
5	Wrap Up & Action Items	Mark Morones	05:00

### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>

	MINUTES OF MEETING (MOM)	USAI-EX-SAMOM-00-000024-000 11-AUG-15 REVISION: 0
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MEETING DETAILS			
Project Name	Alaska LNG Project	Date of Meeting	11-Aug-15
Meeting Subject	BLM ROW Grant/Plan of Development (POD) Preliminary Discussion		
ATTENDEES			
Attended By		Organization	
Sandra Barnett		Alaska LNG Project	
Steve McDaniel		Alaska LNG Project	
Doug Muschevic		BLM	
Earle Williams		BLM	
Jon Schmidt		exp	
HIGHLIGHTS			
Item	Highlights		Leader
1	A work plan is required to determine the resources (including contract or temporary) required by BLM to work on the Alaska LNG ROW Grant		N/A
	The Federal lands footprint on CD is required when filing the Draft Plan of Development (POD) with the FERC application. The POD will remain as draft until after the FERC FEIS is complete. Workshops before and after the Draft POD is filed to address issues and topics to are acceptable to BLM . The first workshop would include a review and discussion of a Table of Contents for the POD.		
	Ahtna land that is BLM selected should be included with the Draft POD. BLM will transfer title of the land to Ahtna prior to the ROW Grant issuance.		
	The POD needs to address any 17b easements crossed by the Project. The crossing needs to ensure access on that easement during construction. If the easement cannot be accommodated, the Project will need to show an acceptable alternative access.		
	The Central/Yukon RMP was discussed. BLM advised that any space for snow removal should be included in the construction ROW.		
ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	STAKEHOLDER MOM – MULTIAGENCY MEETING GTP FOOTPRINT	USAG-PE-SAMOM-00-000005-000 12-AUG-15 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	GTP	<b>Date of Meeting</b>	August 12, 2015
<b>Meeting Subject</b>	Multi Agency Meeting- GTP Footprint	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Attended By	Attended By	Attended By
DNR-SPCO	NRG	Alaska LNG Contractors: • Exp	Alaska LNG Project
DNR Water	DNR-OPMP	USFWS	USCG
USACE	DEC	ADNR	ADF&G
NSB	ADEC	EPA	ADHSS

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and Hotel Safety	Anthony Pennino	Start 9:00am
2	Safety Moment – Back to School, Objectives, Disclaimer	Adrienne Rosecrans	Start 9:10am
3	AKLNG Overview	Raul Lopez	Start 9:20am
4	GTP Design Overview, GTP Site Selection and Facility Layout	Jeff Lipscomb	Start 9:30am
5	Construction and Execution Plans	Keith White	Start 10:30am
6	Resource Needs: Gravel, Water, Roads	Jeff Lipscomb	Start 11:00am
7	LUNCH		12:00-1:00pm
8	Q&A / Discussion		1:30 (End)

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

DISCUSSION		
Item	Discussion/ Notes	Comments



**AGENDA ITEMS:**

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## Meeting Notes – Mike Andrews – 8/19

Participants: Mike Andrews, Director Employment & Training Services (ADOLWD)  
Marcia Olson, Training Coordinator, ADOLWD  
Kevin Pederson, Alaska LNG, Labor study lead  
Kim Fox, Alaska LNG, External affairs  
Richard Walmsley, Bechtel

Overview of discussion:

Job Bank

- data available to us – widely used by union, non-union, employers; in order to access UI, must register

AVTEC

- State
- Pre-trade training
- Kenai welding facility

Alaska Works Partnership

- Mission – AK ...
- Helmets to Hardhats
- Women in Trades

Pipeline Training Center

- Industry partnership
- Underutilized

Construction Academies

- 400 people / yr
- Need ~ 1000 people / yr to replace losses
- Kenai – focused primarily on oil & gas skills
- Fairbanks – focus on building skills

WIIA? – Workforce Innovation Investment Act

State Training Employment Program

- Funding includes \$5.2M in gov't grants to reduce UI numbers
- Private sector & public funding
- Oil & gas and construction – 75% of funding

Federal grants - \$4M/yr to support

- Displaced workers (e.g. company closures)
- Veterans

ATVEP – Alaska Technical Vocational Program – UI diversion funding - \$12 M annually

Regional Training Centers – operational grant annually through TEVA

- Includes all rural campuses of University of Alaska
- Some include dormitories
- King Salmon – Southwest Alaska Vocational Center
- YUUT – Bethel
- North West Arctic Career & Technology Center (Nome)
- Kotzebue – Alaska Technology Center
- Barrow – Illusavik College
- Delta Junction – Delta Career Advancement Center
- Galena - ?


Fairbanks Training Center – underutilized – significant opportunity

Workforce brokers – APICC (Alaska Process Industry...)

McDowell – study for APICC on workforce

State update:

- Under federal Workforce Innovation Opportunity Act – Alaska identifying priorities and building strategy – will be out in communities in Alaska this fall to consult with public (report to be submitted to feds March 2<sup>nd</sup>)
- Supporting Alaska LNG Project – key question is around state ability to scale up
- Legacy jobs should be a focus as well as training transferable skills during construction that will apply to operations
- State also looking at indirect impacts of project on existing workforce (ie. police leave to become security guards)
- Looking forward to continuing the discussion.
- Marcia Olson (State training coordinator) to provide Project with additional information.

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 19, 2015
Sub-Project Name	Integrated (All Segments)	Location	1016 West 6th Avenue, Anchorage, AK 99501
Meeting Subject	Provide update of labor study progress/status to Alaska Commissioner of Labor and Workforce Development		


ATTENDEES			
Name	Organization	Name	Organization
Fritz Krusen	AGDC	Lydia Johnson	Alaska LNG Project
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Mike Andrews	Alaska Department of Labor and Workforce Development (ADLWD)
Kevin Pederson	Alaska LNG Project	Paul Quesnel	BP Exploration Alaska
Kim Fox	Alaska LNG Project	Portia Babcock	ConocoPhillips

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Labor Study update to Commissioner of Labor and Workforce Development	Discuss initial findings and next steps

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



	STAKEHOLDER MOM – MULTIAGENCY MEETING COOK INLET ROUTING	USAG-PE-SAMOM-00-000006-000 19-AUG-15 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	August 19, 2015
<b>Meeting Subject</b>	Multi Agency Meeting-Cook Inlet	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Attended By	Attended By	Attended By
DNR-SPCO, DMLW, SCRO, Water	NRG	Alaska LNG Project Contractors • Exp, IntecSea	Alaska LNG Project
KPB	DNR-OPMP	USFWS	USFWS
USACE	ADEC	ADNR	ADF&G
DGGS	FERC	EPA	ADHSS

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and Fire Safety	Anthony Pennino	Start 9:30am
2	Safety Moment – Labor Day Safety, Objectives, Disclaimer	Ryan Chladek	Start 9:45am
3	AKLNG Overview	Ryan Chladek	Start 10:00am
4	Cook Inlet Overview	Ryan Chladek	Start 10:15am
5	Cook Inlet Pipeline Route	Ryan Chladek	Start 10:30am
6	BREAK		10:45-11:00am
7	Pipeline Design	Ryan Chladek	Start 11:00am
8	Construction, Execution and Logistics Plan	David Niehus	Start 11:20am
9	LUNCH		12:00-1:00pm
10	Construction, Execution and Logistics Plan con't	David Niehus	Start 1:00pm
11	Q&A / Discussion		Start 1:45pm
			2:30pm (End)

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	PHMSA Technical Engagement
Meeting Type:	Face to face
Meeting Subject:	Review of Ongoing Technical Issues
Date of Meeting:	08/20/2015
Document Control Number:	USAP-PP-YAMOM-10-000010-000
<b>ATTENDED BY:</b>	
<b>ORGANIZATION:</b>	
Alyssa Samson	Alaska LNG Project
Mario Macia	Alaska LNG Project
Rick Noecker	Alaska LNG Project
Sandra Barnett	Alaska LNG Project
Steve Nanney	United States Department of Transportation (USDOT)

### AGENDA ITEMS:

Item	Agenda Item	Description
1	LinePipe Dimensional Test Results	Third party dimensional inspection program conducted on 42" od pipe. Both manufacturer's produced pipe to excellent dimensional tolerances. Observed values were reviewed by the team.
2	SBD SP Appendix A High Strain Line Pipe Manufacturing Requirements	Several line pipe manufacturers reviewed PHMSA's Appendix A line pipe manufacturing requirements. Comments were from six mills and four plate manufacturers (identities not revealed) were reviewed. AKLNG also proposed several changes to the Donlin Gold Appendix A conditions.
3	High Integrity Coating Systems	Pipeline coating options were reviewed along with AKLNG's coating selection process. 3PLE and HPPC are the most suitable coating systems for AKLNG onshore Mainline. Pipe in bored crossing is proposed as FBO with ARO. Safety and Integrity advantages were reviewed along with coating specifications.
4	Shielding	Shielding is a phenomenon and not an inherent property of the material. Coatings with superior adhesion to the pipe and between layers (for multilayer systems) will demonstrate a very low risk of shielding CP current. Coating can fail either through mechanical damage or by coating disbondment. 3-Layer coating repair, cold temperature performance and company experience were discussed by the team. AKLNG had also, at PHMSA's suggestion, contacted, Williams Transco to discuss their favorable experience with multi-layer coating systems.
5	Updated Project / Regulatory Schedule	Provided

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 24, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	2525 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Kenai Spur Highway Relocation Next Steps		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carol Snead	HDR	Kjell Knutsen	Alaska LNG Project
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Larry Persily	Kenai Peninsula Borough (KPB)
Jeff McDonald	Alaska LNG Project	Lisa Gray	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Mark Dalton	HDR
Jennifer Witt	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Guttormson	Alaska LNG Project
John Linnell	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Thomas	Alaska Department of Transportation and Public Facilities (ADOTPF)
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)	Shannon Miller	ADNR State Pipeline Coordinator's Section

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Kenai Spur Highway Relocation Next Steps	Schedule meetings to discuss comments on Feasibility Report and address outstanding questions. Discussion of project phases, review, and timing, MOUs or Enabling Agreements needed to progress work, FERC and NEPA involvement for KSH relocation project portion, conversations needed with FHWA and NHS changes, utilities work and public engagement.

## ACTION ITEMS


<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MOM - KSH ROW ACQUISITION PROCESS AND ADOT&PF AND FHWA ENGAGEMENT	USAL-HD-CAMOM-00-000005-000 26-AUG-15 REV 0
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MEETING DETAILS			
Sub-Project Name	LNG Facilities	Date of Meeting	26-Aug-15 / 1:00 – 3:00PM
Meeting Subject	Discuss KSH ROW Acquisition Process and ADOT&PF and FHWA Engagement		
ATTENDEES			
Attended By	Organization	Attended By	Organization
John Linnell	ADOT&PF	Tom Kretzschmar	HDR
Jeff McDonald	ExxonMobil	Mike Noonan (via phone)	HDR
		Mark Dalton	HDR
AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	See attached list of questions to prompt discussion.		
ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

Notes		
Item	Topics	Discussion
1	Requisite Milestones ADOT&PF will need in order to vacate existing Highway Right of Way with FHWA approval. A. Bond duration for new ROW and construction period. B. Need for warranty period for new highway. C. Timing of vacation of old ROW relative to warranty period?	In Municipality of Anchorage the warranty period is generally 2 years. 1 year plant materials warranty is typical. One DOT inspector can be expected during construction. Vacation of old road is not expected to link directly to new road warranty.
2	New Highway ROW – determination as to whether all or a portion of this new ROW is to be access controlled along with FHWA concurrence is required.	Complete access control is not anticipated, largely because the new section would be different than existing KSH.
3	Disposal/Excess ROW - MOU needs to be clear about the methods of disposal of excess lands acquired for this project, outside of the new ROW. Is the developer required to follow the methods of the ADOT&PF ROW Manual 9.9.4 “Methods of Disposal?” Will FHWA concur?	DOT would not take title to excess lands. Continued Developer ownership, Borough donation, or transfer to adjoining land owner, are possible outcomes. ROW mapping and subsequent replatting consistent with KPB requirements is expected.
4	Will FHWA view this process as an “exchange” or as an excess land approach, which will require a FMV assessment for both the vacated ROW and the new ROW? Reference ADOT&PF ROW Manual 6.8.2.	FHWA should be consulted on the determination of exchange versus donation, and whether exchange triggers URA. If donation, the DOT may require fair market value for vacation of old road. Without federal involvement, vacation of old road should not trigger NEPA.
5	Under URA, appraisals are required for all acquisitions unless acquisition is under \$10K at which time a Waiver Valuation can be completed. Through the MOU between client and ADOT&PF it is recommended that ADOT&PF request from FHWA a higher limit for Waiver Valuations.	Useful when \$10k or less. From \$10k to \$25k, owner can request appraisal. Higher Waiver Valuation limits would likely be approved but may be of limited value as majority of land values likely exceed \$50,000 threshold.

Notes		
Item	Topics	Discussion
6	What are the options for who will hold title during ROW/Design/Construction?	DOT may be open to holding title once the project is under construction. During the ROW acquisition and design phase.
7	What will be the role of Kenai Peninsula Borough (KPB)?	The Borough is the platting authority which may be required for any partial acquisitions or resale of remnant properties. KPB is also the likely recipient of the remaining usable section of the old highway.
8	<p>1) Is ADOT&amp;PF aware of any time that URA 24.7 has been requested by ADOT&amp;PF and granted by FHWA? This involves relocation of a portion of a federally-funded highway. Can FHWA work with developer through the various ROW processes while making sure there is no reduction in any assistance or protection afforded relocatees under 24.7?</p> <p>§24.7 Federal Agency waiver of regulations.</p> <p>The Federal Agency funding the project may waive any requirement in this part not required by law if it determines that the waiver does not reduce any assistance or protection provided to an owner or displaced person under this part. Any request for a waiver shall be justified on a case-by-case basis.</p>	The waiver of regulations for an entire project is unlikely but can be addressed with FHWA. Section 24.7 has typically been used for single relocation payments outside the regulations.
9	There needs to be agreement between FHWA and ADOT&PF about which agency is on point for approvals, concurrences or related actions under this project (KSH relocation).	Based on conversation, DOT appears ready to facilitate agreements with FHWA. AKLNG / HDR should develop a position paper to give DOT some options to discuss with FHWA on a preferred course of action toward exchange without URA.


	STAKEHOLDER MOM – <b>MULTIAGENCY MEETING LIQUEFACTION FACILITY            WORKSHOP</b>	USAL-PE-SAMOM-00-000048-000 2-SEP-15 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	LNG	<b>Date of Meeting</b>	September 2, 2015
<b>Meeting Subject</b>	Multi Agency Meeting- Liquefaction Facility Workshop	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Attended By	Attended By	Attended By
DNR-SPCO	NRG	Alaska LNG Project Contractors: • Exp	Alaska LNG Project
DNR Water	DNR-OPMP	USFWS	
USACE	DEC	ADNR	
KPB	ADEC	EPA	ADHSS

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and Building Safety	Anthony Pennino	Start 9:05am
2	Safety Moment – Back to School, Objectives, Disclaimer	Jeff Raun/Mike Britton	Start 9:10am
3	AKLNG Overview	Mike Britton	Start 9:25am
4	Site Selection	Mike Britton	Start 9:30am
5	Nikiski Setting	Scott Guttormson	Start 9:45:am
6	Plant Overview and Liquefaction Process	Dave Bergeron/Pranav Mehta	Start 10:00am
7	BREAK		10:15-10:30am
8	Plant Overview and Liquefaction Process Cont.	Dave Bergeron/Pranav Mehta	Start 10:30am
9	LUNCH		11:45-12:45pm
10	Environment	Jeff Raun	12:45pm
11	Data Gathering	Claire Joseph	1:00pm
12	Execution and Construction	Scott Guttormson	1:05pm
13	Q&A / Discussion		2:00pm (End)

ACTION ITEMS		
Item	Action Items/Topics	Assigned To

	STAKEHOLDER MOM – <b>MULTIAGENCY MEETING DREDGING WORKSHOP</b>	XXXX 3-SEP-15 REVISION: A
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MEETING DETAILS			
<b>Sub-Project Name</b>	LNG, Marine and GTP	<b>Date of Meeting</b>	September 3, 2015
<b>Meeting Subject</b>	Multi Agency Meeting- Dredging Workshop	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Attended By	Attended By	Attended By
DNR-SPCO	NRG	AKLNG Contractors: • Exp	Alaska LNG Project
DNR Water	DNR-OPMP	USFWS	NSB
USACE	DEC	ADNR	NMFS
KPB	ADEC	EPA	ADHSS

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and Building Safety	Anthony Pennino	Start 9:05am
2	Safety Moment – Denali Naming , Objectives, Disclaimer	Ruben Medrano	Start 9:10am
3	AKLNG Overview	Ruben Medrano	Start 9:25am
4	Dredging- Nikiski Cook Inlet	Ed Stokes	Start 9:30am
5	BREAK		10:30- 10:45am
6	Dredging- Cook Inlet Pipeline	Ryan Chladek	Start 10:45am
7	Dredging- GTP Overview and Dock Selection	Keith White	Start 11:00am
8	LUNCH		11:30-12:30pm
9	Dredging- GTP Channel Alignment and Dredging Methods	Keith White	Start 12:45pm
10	Dredging- Material Placement and Dredging Schedule	Keith White	Start 1:15pm
11	Q&A / Discussion		2:00pm (End)

DISCUSSION		
Item	Discussion/ Notes	Presenter
1	<b>AKLNG Overview:</b> <ul style="list-style-type: none"> <li>Brief overview of entire AKLNG project</li> <li>Most agencies already familiar with the project</li> <li>Noted that entire project will be under the same FERC application</li> <li>Question from NRG (FERC) about what decisions are made by Project during pre-FEED versus FEED</li> </ul>	Ruben Medrano

DISCUSSION		
Item	Discussion/ Notes	Presenter
2	<b>Dredging- Nikiski Cook Inlet:</b> <ul style="list-style-type: none"> <li>EPA asked about the estimated dredging volumes and if they could be provided in the copy of the slide deck submitted to the agencies.</li> <li>EPA had some clarifying questions on the determination of dredging depths.</li> <li>EPA asked if any biological or chemical sampling of the dredged materials have been conducted.</li> <li>DNR asked if the impacts (as well as mitigations) from the shoreline placement of dredged materials will be assessed.</li> </ul>	Ed Stokes
3	<b>Dredging- Cook Inlet Pipeline:</b> <ul style="list-style-type: none"> <li>Little to no comments concerning the dredging for the Cook Inlet Pipeline.</li> <li>SPCO asked if the pipeline would be completely trenched or partially buried.</li> <li>SPCO suggested looking at the designs at past pipelines installed in that area of Cook Inlet.</li> </ul>	Ryan Chladek
4	<b>Dredging- GTP Overview and Dock Selection:</b> <ul style="list-style-type: none"> <li>Little to no comments concerning the GTP overview and Dock Selection.</li> <li>EPA asked if the alternatives analysis will include the other Dock heads at West Dock.</li> </ul>	Keith White
5	<b>Dredging- GTP Channel Alignment and Dredging Methods:</b> <ul style="list-style-type: none"> <li>DNR inquired about fresh water sources and volume of water needed.</li> <li>NRG asked about the possibility of filling in the breach between DH2 and DH 3.</li> <li>SPCO asked about the composition of the test trench material.</li> </ul>	Keith White
6	<b>Dredging- Material Placement and Dredging Schedule:</b> <ul style="list-style-type: none"> <li>Little to no comments concerning the Material Placement and Dredging Schedule</li> </ul>	Keith White



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 9, 2015
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	888 First St NE, Washington, DC 20426
<b>Meeting Subject</b>	Align on modifications to FERC's Plans & Procedures for Pipeline Construction September 9 & 10, 2015		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Caryn Rea	Alaska LNG Project	Jim Oswell	
Cory Wilder		Jon Schmidt	exp Energy Services
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Julio Daneri	Alaska LNG Project
Elizabeth Dolezal	Natural Resources Group (NRG)	Karen Wuestenfeld	Alaska LNG Project
Jack Everts	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
James Martin	Federal Energy Regulatory Commission (FERC)	Mike Boyle	Ecology & Environment
Jennifer Lee	Natural Resources Group (NRG)	Mike Timpson	Natural Resources Group (NRG)

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 10, 2015
Sub-Project Name	Gas Pipeline	Location	Washington, DC
Meeting Subject	Upland Erosion and Sedimentation Control Plan (Plan) with FERC		

ATTENDEES			
Name	Organization	Name	Organization
Karen Wuestenfeld	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input type="checkbox"/> Meeting  <input checked="" type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	GTP Exclusion Zone
	<b>Date of Meeting:</b>	Sept. 16, 2015
	<b>Number:</b>	USAG-PE-SAMOM-00-000007-000


ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Adrienne Rosecrans	Alaska LNG Project	Shannon Miller	SPCO
		Kim Kruse	ADNR/DOG

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Review the concept of a potential GTP exclusion zone based on CO2 dispersion modeling done during Pre-FEED.	Adrienne	15 min
2			
3			

### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1	Kim explained that because the GTP area is going to be included in the pipeline ROW lease application, a modification to the PBU Plan of Operations would not be needed.	NA	
2	Shannon also clarified that a GTP Plan of Operations will be a requirement for the state ROW lease and that the safety exclusion zone would be specified in that Plan.	NA	
3	Questions asked requiring follow up: <ul style="list-style-type: none"><li>How does a potential exclusion zone affect other potential users in the area?</li><li>How do we plan to control access to the exclusion zone?</li><li>What about effects to wildlife and what would we do during an event to keep wildlife out of the area?</li></ul>	Adrienne	TBD
4	Next step is to expand discussion of a potential exclusion zone to a broader SPCO audience and talk further about design for the exclusion zone and effects on other area users.	Adrienne	TBD

	MINUTES OF MEETING (MOM) KENAI SPUR HIGHWAY INITIAL MOU	USAL-HD-CAMOM-00-000017-000 17-SEP-15 REVISION: 0
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MEETING DETAILS			
Sub-Project Name	LNG Facilities	Date of Meeting	17 September 2015
Meeting Subject	MOM – Kenai Spur Highway Initial MOU	Location	Anchorage

ATTENDEES			
Attended By	Organization	Attended By	Organization
Ken Morton	ADOT&PF	Mark Dalton	HDR Alaska
David Bloom	ADOT&PF	Kjell Knutsen	Alaska LNG Project
Jeff Raun	Alaska LNG Project		

DISTRIBUTION (Attendees plus the following individuals)			
Name	Organization	Name	Organization
Scott Guttormson	Alaska LNG Project	Jennifer Adelman	HDR Alaska
Jeff McDonald	Alaska LNG Project	Carol Snead	HDR Alaska

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Feasibility report review comments	Mark D.	
2	Initial MOU Elements: <ul style="list-style-type: none"> <li>Stakeholder engagement</li> <li>Next phase scope of services for final design effort</li> <li>FHWA outreach for scope of Uniform Relocation Act (URA) and National Environmental Policy Act (NEPA) compliance</li> <li>Land title – who owns and when</li> </ul>	Mark D.	
3	Establishment of regular communications	Mark D.	

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

**DISCUSSION**

Item	Agenda Item(s) / Notes	Comments
1	ADOT concurs that MOU should capture Agency commitment to review final design effort scope.	
2	ADOT is amenable to regular project meetings (monthly or bi-weekly) and agrees that existing Reimbursable Services Agreement (RSA) is appropriate funding mechanism.	
3	ADOT concurs that AKLNG will develop proposed methodology and approach to URA and NEPA for meeting with FHWA in Juneau in early October; FHWA/ADOT discussions to-date have been informal and not focused on NEPA compliance.	
4	ADOT expressed interest in the Kenai Peninsula Borough accepting maintenance of northern section of existing KSH alignment.	
5	ADOT indicated clear understanding and documentation with DNR is needed for vacation of existing ROW and dedication of new ROW. ADOT to determine role of ADOT Commissioner in approval process.	
6	ADOT acknowledged ideal scenario of ROW vacation at the time of acceptance for relocated KSH.	
7	ADOT indicated John Linnell is the subject matter expert on ROW and that ADOT holding title after options are exercised and before construction starts does not seem unreasonable given the standard process of certifying ROW before starting construction.	
8	ADOT acknowledged its role in public involvement would be to represent public interests and not act as an advocate for or opponent against the project, confirming that stakeholder engagement roles should be defined in the MOU.	

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	September 21, 2015
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	10613 West Sam Houston Pkwy N, Houston, TX 77064
<b>Meeting Subject</b>	SBD Line Pipe Requirements		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alyssa Samson	Alaska LNG Project	Rick Noecker	Alaska LNG Project
Jennifer Owens	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Mario Macia	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS


<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Det Nortis Vertas Comments to Alaska LNG Project's Proposed SBD SP Conditions	Reviewed in detail with PHMSA including plans to finalize SBD SP conditions.
2	Other Miscellaneous Items	Crack Arrestor Spacing SP discussion as it might relate to TAPS Toughness of pipe - needs to be considered wrt crack arrestor spacing
3	Summary	This was a teleconference in which several documents were reviewed with PHMSA: 1. Alaska LNG project edits to Line Pipe (App. A) requirements in the SBD SP Conditions 2. Reviewed DNV GL's comments to the project's proposed SBD SP Conditions 3. Discussed plans to finalize the SBD SP Conditions

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>


	<b>MEETING NOTES - ADEC AIR QUALITY PERMITTING ENGAGEMENT</b>	27-OCT-15 REVISION: 0
		PAGE 1 OF 2

MEETING DETAILS			
Sub-Project Name	GTP Facilities	Date of Meeting	25-SEP-15
Meeting Subject	MEETING NOTES - ADEC AIR QUALITY PERMITTING ENGAGEMENT		
ATTENDEES			
Attended By		Organization	
Jim Pfeiffer		Alaska LNG Project	
Tom Damiana		AECOM	
Tiffany Samuelson		AECOM	
Attended By		Organization	
Alan Schuler		ADEC	
James Renovatio		ADEC	
Greg Arthur		BPXA	
AGENDA ITEMS			
Item	Agenda Item(s)		Leader
1	Introductions/Background		All
2	SSHE Moment- What to do if your car breaks down on the highway?		Damiana
3	<p><b>Presentation of the Proposed Approach (follows the attached slides).</b></p> <ul style="list-style-type: none"><li><b>Impacts in A-Pad Data Limit its Usefulness</b><ul style="list-style-type: none"><li>The highest impacts are caused by near-field sources.</li><li>The refined first tier background is 70 µg/m³.</li></ul></li><li><b>Review of USEPA Guidance on Second Tier Approaches</b><ul style="list-style-type: none"><li>USEPA does not limit the possibilities to temporal pairing of background concentrations, but they do imply that causality should exist to explore other approaches to refining background concentrations.</li></ul></li><li><b>Appropriateness of a Second Tier Approach</b><ul style="list-style-type: none"><li>The highest 1-hour average NO₂ concentrations decrease with wind speed due to better dispersion; therefore, a background by wind speed approach is appropriate and causality can be shown.</li><li>There is additional conservatism in the A-Pad dataset because no near-field well work occurs at GTP and those near-field impacts will remain in the dataset.</li></ul></li></ul>		Damiana
4	<p><b>General Discussion on Second Tier Background Approach</b></p> <ul style="list-style-type: none"><li>Alan Schuler (ADEC) – presentation was a good summary of EPA guidance. ADEC approved this approach for the Drill Rig Policy Working Group.</li><li><b>Alan - Is there a relationship between wind direction and wind speed that makes the A-Pad dataset unrepresentative for GTP?</b><ul style="list-style-type: none"><li>Tom Damiana (AECOM) – displayed figures relating wind direction to wind speed and NO₂ impacts to wind direction. Highest wind speeds are associated with the predominant wind directions (SW/NE).</li><li>It is clear that the A-Pad data capture a good cross-section of the greater Prudhoe Bay Unit (PBU) sources and near-field sources, such as well servicing equipment, drill rigs, and mobile sources. Because of the large spread of the data, we would expect this approach to introduce bias to the GTP modeling.</li></ul></li><li><b>James Renovatio (ADEC) - Can selection of the bounds of the wind speed categories bias results?</b></li></ul>		Damiana/ Renovatio/ Schuler/ Samuelson

	<b>MEETING NOTES - ADEC AIR QUALITY PERMITTING ENGAGEMENT</b>	27-OCT-15 REVISION: 0
		PAGE 2 OF 2

	<p>ADEC believes that the Second Tier background approached by the project would be acceptable given approval for the approach for the Drill Rig Working Group, and the considerations addressed above in the notes. However, ADEC would like to see the approach articulated in a protocol for formal review.</p>		
5	<p><b>General Discussion on Ozone</b></p> <p>ADEC brought up the possibility of using a tier II approach to the ozone concentrations used for calculating NO2 concentrations. There were discussions about ozone variations around the State.</p>	Damiana/ Schuler	
6	<p><b>Other Approaches to Developing Background Concentrations</b></p> <ul style="list-style-type: none"> <li>Alan – ASAP submitted a modeling protocol for a nearby gas treatment plant that proposed to use CCP monitoring data to develop background concentrations for modeling, in lieu of explicitly modeling CCP and CGF. ADEC approved the protocol in May 2015. Given this approval, ADEC wanted to offer this as a suggestion to AKLNG in case they were considering something similar.</li> <li>Tom - could a second tier approach be used to develop a background with the CCP monitoring data? In other words, could a background by wind speed approach based on A-Pad data be applied for certain wind sectors (winds blowing from west), but background concentrations by wind speed based on the CCP monitoring data be applied for other wind sectors (winds blowing from the east)? The 2014 USEPA guidance suggests use of upwind and downwind monitoring data to appropriately represent background concentrations.</li> <li>Alan – ADEC is willing to entertain other approaches to background development; the project should submit a proposal to ADEC for consideration.</li> <li><b>Agency Engagement</b> <ul style="list-style-type: none"> <li>Jim Pfeiffer (AK LNG) – we could try to work the proposal to address potential NEPA and PSD issues.</li> <li>Alan – likely can't develop one modeling protocol for both NEPA and PSD. For NEPA, AK LNG will need concurrence from USEPA Region 10 (Herman Wong). ADEC does not see any issues with using the background by wind speed approach. Considering a background approach dependent on both wind direction and wind speed (CCP and A-Pad data) may require additional scrutiny as well.</li> </ul> </li> </ul>	Damiana/ Schuler	
<b>ACTION ITEMS</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



	MOM - DISCUSS DOT&PF COMMENTS ON THE KSH RELOCATION FEASIBILITY REPORT	USAL-HD-CAMOM-00-000011-000 28-SEP-2015 REVISION: 0
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MEETING DETAILS				
Sub-Project Name	LNG Facilities	Date of Meeting	September 28, 2015 / 12:00-2:00PM	
Meeting Subject	Discuss DOT&PF comments on the KSH Relocation Feasibility Report			
ATTENDEES				
Attended By		Organization		
Attended By		Organization		
Scott Guttormson (via phone)	Alaska LNG Project	Mark Dalton	HDR	
Jeff Raun	Alaska LNG Project	Leslie Robbins	HDR	
Scott Thomas	DOT&PF	Carol Snead	HDR	
Jennifer Witt	DOT&PF	Scott Wharton	HDR	
Ken Morton	DOT&PF	Nate Larson (via phone)	HDR	
AGENDA ITEMS				
Item	Agenda Item(s)		Leader	Time
1	Introductions and meeting objectives		Scott G.	
2	SSH&E moment		Jeff R.	
3	Discussion of comments DOT&PF provided on the KSH Relocation feasibility study and the corresponding responses		Mark D./Scott W.	
ACTION ITEMS FOR UPDATING THE FEASIBILITY REPORT				
Item	Action Items/ Discussion Topics		Assigned To	Due Date
1	Continue to revise the feasibility report, based on discussion with DOT&PF, as detailed below in the other action items		HDR	
2	Clarify NHS northern terminus for KSH as it relates to intermodal connectivity of the system (e.g., connection to OSK) and the KSH Relocation segment.		Leslie	
3	Revise TIA to focus on 10-year forecast and meet requirements of 17 AAC 10.070. Don't rely on historical traffic growth rates. Specifically address: <ul style="list-style-type: none"><li>Permanent jobs and related household trips in 10-year forecast</li><li>Construction jobs and transportation to the project site during the construction period (i.e., busing from the airport, walkable distance between camp and jobsite, etc.)</li><li>Crash risk and severity, whether the options are equal to or better than the existing condition.</li></ul>		Nate	
4	Consider induced growth for 20-year planning horizon per FERC Resource Report #5 (Socioeconomics); Jeff to forward relevant information to Jennifer.		Jeff	
5	MOU development is ongoing: discussion of regulatory framework requires FHWA input. DOT&PF is interested in seeing the framing document for the proposed MOU prior to initiating conversation with FHWA, requests access management be included in MOU.		AKLNG/HDR	
6	Open House in Nikiski scheduled for October 19. DOT&PF attendance to be confirmed.		Jeff to coordinate DOT&PF participation	
7	Feasibility Report revisions will consider input from October 19 Open House		HDR team	

# ALASKA LNG

## MINUTES OF MEETING

<input checked="" type="checkbox"/> Meeting  <input checked="" type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG		
	<b>Meeting Subject:</b>	LNG/Marine Team Civil/Structural/Geotechnical Design Criteria		
	<b>Date of Meeting:</b>	9/30/15		
	<b>Number:</b>	USAL-PE-SAMOM-00-000056-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Jim Glaze		FERC	Karen Wuestenfeld	Alaska LNG
Bob Bachman		RE Bachman, Consulting Structural Engineers	Sandra Barnett	Alaska LNG
Kul Bushan		Delta Consulting	Dave Raaf	Alaska LNG
Hugh Thomas		FERC	David Bergeron	Alaska LNG
Andrew Kohout		FERC	Elena Antonakos	Alaska LNG
Thach Nguyen		FERC	Adel Younan	Alaska LNG
Heather Ferree		FERC	Pranav Mehta	Alaska LNG
Mike Timpson (phone)		NRG	Richard Raines (phone)	Alaska LNG
Shelley O'Brien (phone)		Alaska LNG	Billy Oliver (phone)	Alaska LNG
Michael Ahart (phone)		Alaska LNG		
<b>DISCUSSION POINTS/ACTION ITEMS:</b>				
<b>Item</b>	<b><u>Discussion Points/Action Items</u></b>			<b><u>Lead</u></b>
1	Alaska LNG Project and schedule overview			K. Wuestenfeld
2	Overview of Offshore/Onshore Geophysical and Geotechnical (G&G) Surveys			D. Raaf/ P. Mehta
4	Plan for Future G&G Investigations			D. Raaf
5	LNG Plant Codes & Standards			D. Raaf
14	LNG Plant Wind Design Basis			D. Raaf
19	LNG Plant Civil Design Criteria			D. Raaf
20	LNG Plant Seismic Design Basis			A. Younan
21	LNG Plant Structural Design Basis			D. Raaf
22	LNG Plant Tank Design Basis			D. Raaf
23	Marine Facility Layout/Design Codes and Standards			P. Mehta
24	Marine Facility Design Basis (e.g., Water level, marine waves, tsunامي, etc.)			P. Mehta
25	Future Engagement Interfaces			All



## MINUTES OF MEETING (MOM)

Project Name:	Gas Treatment Plant RR13 Scope of Work		
Meeting Type:	Face to face		
Meeting Subject:	Gas Treatment Plant RR13 Scope of Work		
Date of Meeting:	10/01/2015		
Document Control Number:	USAG-PE-SAMOM-00-000009-001		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Andrew Kohout	FERC		
Hugh Thomas	FERC		
Robert Rood	Alaska LNG Project		
Sandra Barnett	Alaska LNG Project		
heather ferree	FERC		
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Summary of Meeting	The focus of the meeting was to confirm that the proposed engineering scope of work for the GTP that was previously submitted to FERC's LNG Engineering Branch met FERC's requirements. Given that the GTP does not handle LNG and is not jurisdictional to 49CFR193 there are aspects of RR13 requirements that do not comport with GTP design requirements. As well, timing for certain engineering deliverables was inconsistent with AKLNG schedule needs. The proposed engineering scope of work was reviewed, several changes were requested by FERC and a path forward was agreed to verbally by both parties. The pre-FEED P&ID's proposed are acceptable with a clear notation from FERC that there may be some additional time required for final P&ID review and approval at the back end of the approval process.	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

# Alaska LNG™

## MINUTES OF MEETING

<input checked="" type="checkbox"/> Meeting  <input checked="" type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Subject:</b>	Pipeline Team Civil/Structural/Geotechnical Design Criteria
	<b>Date of Meeting:</b>	10/01/15
	<b>Number:</b>	


ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Jim Glaze	FERC	Karen Wuestenfeld	Alaska LNG Project
Bob Bachman	RE Bachman, Consulting Structural Engineers	Sandra Barnett	Alaska LNG Project
Kul Bushan	Delta Consulting	Michael Zhang	Alaska LNG Project
Gertrude Johnson	FERC	Noel White	Alaska LNG Project
Maggie Suter	FERC	Elena Antonakos	Alaska LNG Project
Anthony Rana	FERC	Doug Nyman (phone)	Alaska LNG Project
Harry Getty (phone)	FERC	Alana Smith (phone)	Alaska LNG Project
Ken Lee (phone)	PHMSA	Mike Timpson (phone)	NRG
Steve Nanney (phone)	PHMSA	Kay McIver (phone)	PHMSA
Jennifer Owens (phone)	PHMSA		

DISCUSSION POINTS/ACTION ITEMS:			
Item	Discussion Points/Action Items	Lead	
1	Alaska LNG Project and schedule overview	K. Wuestenfeld	
2	Overview of Geophysical and Geotechnical (G&G) Surveys	M. Zhang	
4	Pipeline Design Codes and Standards	M. Zhang	
5	Pipeline Seismic Design Concept & Process	M. Zhang	
14	Pipeline Facility Design Considerations and Conditions	N. White	
19	PTTL Design	M. Zhang	
20	Schedule	M. Zhang/N. White	
21	Arctic Pipeline Design Process	M. Zhang	
22	Aerial Geophysics	M. Zhang	
23	2016 Planned Work Programs	M. Zhang	
24	Climate Change Design Considerations	M. Zhang N. White	
25	Future Engagement Interfaces for Design Criteria	M. Zhang N. White	

<p style="text-align: center;"><b>MINUTES OF MEETING</b></p> <p style="text-align: center;"><b>FERC Meeting Discussion</b></p>
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**Table 1. Future Engagement Interfaces**

Topic	AKLNG	FERC	PHMSA
Arctic Pipeline and Strain-Based Design	Michael Zhang/ Karen Wuestenfeld	Jim Glaze	Steve Nanney/ Jennifer Owens
Pipeline Seismic Design	Michael Zhang/ Karen Wuestenfeld	Jim Glaze	Steve Nanney/ Jennifer Owens
Pipeline Facilities Design	Noel White/ Karen Wuestenfeld	Jim Glaze	Steve Nanney/ Jennifer Owens
Pipeline Climate Change Design Basis	Michael Zhang/ Karen Wuestenfeld	Jim Glaze	Steve Nanney/ Jennifer Owens
Geotechnical and Geological Geohazards	Robert Albrecht/ Karen Wuestenfeld	Jim Glaze	Steve Nanney/ Jennifer Owens

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 6, 2015
Sub-Project Name		Location	Anchorage, AK
Meeting Subject	Introduction to pipe in pipe technology for USCG		

ATTENDEES			
Name	Organization	Name	Organization
Dave Raaf	Alaska LNG Project	Hector Cintron	United States Coast Guard (USCG)
Dennis Maguire	Alaska LNG Project	Pranav Mehta	Alaska LNG Project
LT. Eugene Chung	United States Coast Guard (USCG)	Sandra Barnett	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	October 7, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	2525 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Update on KSH relocation project and plan a prep meeting ahead of open house		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Mark Dalton	HDR
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Update on KSH relocation project	1) DOT&PF discussed the review of the feasibility report and adjudication of DOT&PF comments. Response: Comments discussed during the 09-28-15 DOT&PF review meeting have largely been resolved in the revised report. Feedback from Alaska LNG project on construction and operations phase employment has been received and is being incorporated into the TIA. Schedule for completion of internal review draft is three weeks out. 2) DOT&PF asked about the URA framing document that will support discussion with FHWA on the applicability of the URA to the KSH relocation project. They are concerned about the project schedule and the need to advance discussions with FHWA prior to the onset of a land acquisition process for the KSH relocation. Ken requested that the document provide information about where the project has looked for similar situations. Response: An internal draft of the framing document is in the works. After review and approval by Alaska LNG Project, the document will be provided by the project to DOT&PF. 3) Ken M. mentioned attending the AASHTO sub-committee on design meeting recently. He asked the 18 states in attendance if they had experience with a similar project where a private project proposed to acquire ROW, construct and transfer ownership of a new NHS facility to the state transportation agency. No parallels were offered by the participants. With respect to the URA, 23 CFR presumes federal funding. As that is not the case, the URA would not apply.
2	Plan prep meeting ahead of KSH relocation open house	Discussed the October 19th open house in Nikiski. DOT&PF asked about meeting format and how the information would be delivered to those attending. Response: Project open house is a three-hour session that will not have a separate presentation. DOT&PF and KPB staff will be there to answer questions relative to their involvement in the project. Mark D. requested an opportunity to brief Dave about the meeting content on the 15th or 16th. Dave stated that he would be available on either day. Intent is to hold a briefing via teleconference to review the open house posters. Jenn Adleman to set up a briefing with Alaska LNG Project and Dave Bloom on 10-15-15.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Phone Call	Date of Meeting	October 9, 2015
Sub-Project Name	Kenai Spur Highway reroute	Location	2525 C St, Anchorage, AK 99503
Meeting Subject	Provided DOT&PF with an update on the KSH relocation project scedule		

ATTENDEES			
Name	Organization	Name	Organization
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Mark Dalton	HDR
Jeff Raun	Alaska LNG Project	Scott Guttormson	Alaska LNG Project
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 14, 2015
Sub-Project Name	Gas Pipeline	Location	8701 S Gessner Rd, Houston, TX 77074
Meeting Subject	PHMSA Technical Engagement		

ATTENDEES			
Name	Organization	Name	Organization
Alyssa Samson	Alaska LNG Project	Rick Noecker	Alaska LNG Project
Jennifer Owens	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Ryan Chladek	Alaska LNG Project
Mario Macia	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Mark Rendle	Alaska LNG Project	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Prasad Anumolu	IntecSea	Vijaykumar Panga	IntecSea

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Meeting Purpose: Continued Technical Engagement including a discussion on offshore Design	
2	Meeting Summary	SBD Special Permit Condition Language, follow-up from FERC Geotechnical Meeting of end of September, overview of TAP's Lessons Learned-Management of Change (MOC) process for SBD Segment Mile Posts, offshore pipeline design, a continuation of multi-layer coatings for pipelines.
3	Offshore Pipeline Design	A presentation on offshore pipeline design was provided. The results of the analysis for the assessment of pipeline damage (to a pipeline laid on top of the seabed) from interference with various factors due to shipping (dropped and dragged anchors, dropped containers, ship grounding and sinking), fishing, boulders and ice keels was reviewed.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 15, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	2525 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Discuss general project issues and FHWA and the URA		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)	Mark Dalton	HDR

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	KSH General project issues, FHWA and the URA	- Briefly discussed scheduling regular status meetings. - Expressed desire to keep abreast of the schedule to help ensure that DOT has the resources in place to be responsive. - The State is in the process of updating the ROW Manual now with completion anticipated before year's end. This schedule is important to maintain for both the DOT and FHWA o Developing a new chapter to the manual that can be added by addenda. (Concern with delivery impacts to linking KSH-related content to current effort).

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 19, 2015
Sub-Project Name	LNG Plant, Marine Terminal	Location	Anchorage, AK
Meeting Subject	Review of Draft Follow-on Waterway Suitability Assessment Report		

ATTENDEES			
Name	Organization	Name	Organization
Brad Fuller	AcuTech	LT. Eugene Chung	United States Coast Guard (USCG)
Claire Joseph	Alaska LNG Project	Hector Cintron	United States Coast Guard (USCG)
Dennis Maguire	Alaska LNG Project	John Farthing	United States Coast Guard (USCG)

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 20, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Review of Integrated Logistics Plan with ADOT&PF Commissioner		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Marc Luiken	Alaska Department of Transportation and Public Facilities (ADOTPF)
Jeff Raun	Alaska LNG Project	Rob Campbell	ADT&PF, Regional Director's Office
Kathleen O'Connell	PRL	Roger Healy	Alaska Department of Transportation and Public Facilities (ADOTPF)
Lydia Johnson	Alaska LNG Project	Steve Hatter	Alaska Department of Transportation and Public Facilities (ADOTPF)

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Project Overview	During the project overview, ADOT&PF expressed interest in the following: where the test pipe originated, if 48" pipe would change the wall thickness, welding and Cook Inlet pipe lay procedures, fabrication locations (domestic/in-state versus foreign/out-of-state), concern over construction demand drawing down ADOT&PF maintenance resources. ADOT&PF expressed interest in receiving the project newsletter.
2	Integrated Logistics	During the Integrated Logistics overview, ADOT&PF expressed interest in: evaluation of dirigibles; including ADNR in future in-depth discussions about specific infrastructure improvements; potential mitigation for weigh stations (e.g. portable stations); a recommendation to review the Statewide Transportation Improvement Plan (STIP) to evaluate potential conflict between highway construction projects during Alaska LNG project construction; better understanding of Fairbanks rail yard logistics and integration with the Fairbanks Metropolitan Area Transportation System (FMATS). ADOT&PF confirmed the two-year STIP update would occur near early 2017. The project Team committed to re-engage with ADOT&PF in 1Q2016 in advance of second draft resource report submittal to FERC to avoid surprises around resource report public infrastructure content.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

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## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 22, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Project Update to USCG Captain of the Port (ERVA, marine activities, fishery education program)		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
CDR Stacey Mersel	United States Coast Guard (USCG)	Hector Cintron	United States Coast Guard (USCG)
Captain Paul Albertson	United States Coast Guard (USCG)	Jerry Kichner	KSeas
Chief James Berna	United States Coast Guard (USCG)	John Taylor	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Robert Davis	United States Coast Guard (USCG)
Dennis Maguire	Alaska LNG Project	Ryan Chladek	Alaska LNG Project
Frank Whipple	Amergent Techs		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>


## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Introductions	After meeting participant introductions and a safety moment on winter driving, Project representatives presented an overview of the Project including purpose, general design components, and staged development process.
2	Cook Inlet pipeline routing overview	Project representatives presented an overview of the Cook Inlet pipeline routing, design, and construction methodology. Topics of discussion included the benefits and drawbacks of having the pipeline laid on the seafloor or buried under the seafloor, particularly as it relates to an anchor from a large vessel impacting the pipeline. A USCG representative asked about the potential size of the safety zone for the pipe lay operation during construction phase.
3	Construction-phase marine operations plans	Project representatives provided an overview of the Project's planning of construction-phase emergency response and vessel assurance activities.
4	Other topics of engagements - WSA, pipe-in-pipe, GPS tower, etc.	The group discussed other topics of engagement between the Project and the USCG, including the waterway suitability assessment, pipe-in-pipe design and use in the marine transfer area of the trestle, and firefighting capability in the marine transfer area. A USCG representative also notified the Project about another point of coordination related to a differential GPS tower located in Nikiski which is used to provide marine communications in Cook Inlet.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 28, 2015
Sub-Project Name	Integrated (All Segments)	Location	3605 Cartwright Ct, Fairbanks, AK 99709
Meeting Subject	Framing an Alaska Gas Pipeline Workforce Plan		

ATTENDEES			
Name	Organization	Name	Organization
Bill Hurley	ConocoPhillips	Kathy Leary	Ilisagvik College
Dan Robinson	Alaska Department of Labor and Workforce Development (ADLWD)	Kevin Pederson	Alaska LNG Project
Greg Cashen	Alaska Dept of Labor & Workforce Development	Kim Fox	Alaska LNG Project
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Mike Andrews	Alaska Department of Labor and Workforce Development (ADLWD)
Joe Thomas	Alaska Department of Labor and Workforce Development (ADLWD)	Phil Cochrane	BP Exploration Alaska
John Plutt	Fairbanks Plumbers and Pipefitters Training School	Randy Barnes	NORCON
Jon Lovedahl	Alaska Teamsters Training Trust	Wade Blasingame	Arctic Slope Regional Corporation (ASRC)
Jon Medaris	Alaska Joint Electrical Apprenticeship & Training Trust	Warren Christian	Doyon Associated, LLC

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	October 29, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Seattle, WA
<b>Meeting Subject</b>	Determine Course of Action for NEPA Air Modeling Protocol Considering Retirement and Succession for EPA Resource		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Herman Wong	United States Environmental Protection Agency (EPA)	Tom Damiana	AECOM
Jim Pfeiffer	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	EPA Region X NEPA Air Modeling Resources will be limited starting December 2015	EPA R10 Modeling contact (Herman Wong) retiring in mid-December, available to assist with protocol issues until end of November. No planning for backfill until after Herman retires, likely mid-2016 before replacement will be on board, interim support likely through R10 Office of Environmental Assessment (OEA), with some involvement by the R10 Office of Air Waste and Toxics (OAWT). OEA's Zach Hedgpeth will remain the contact for emissions inventory. Pending changes to EPA's "Appendix W" Guideline on Air Quality Models will create a certain ambiguity in modeling requirements- NEPA modeling likely to be conducted under current Appendix W, PSD modeling likely to be subject to updated Appendix W. Potential removal of CALPUFF as a guideline model of concern to Federal Land Managers (FLMs) in limiting tools available for "Air Quality Related Values" (AQRV) analyses. No MOU between EPA/FLMs and FERC as with other NEPA Lead Agencies regarding how AQRV analyses are to proceed. No FLM meeting currently planned, may need to reconvene to discuss AQRV protocol.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	November 4, 2015
<b>Sub-Project Name</b>	Gas Treatment Plant	<b>Location</b>	Juneau, AK
<b>Meeting Subject</b>	Provide rationale to ADEC for how sharp gradients approach would be applied to PSD air modeling at GTP, and receive initial feedback useful for strengthening approach in anticipation of discussions for application of approach to NEPA modeling		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alan Schuler	Alaska Department of Environmental Conservation (ADEC)	Linsey DeBell	AECOM
James Renovatio	Alaska Department of Environmental Conservation (ADEC)	Tiffany Samuelson	AECOM
Jim Pfeiffer	Alaska LNG Project	Tom Damiana	AECOM

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1		EPA's Appendix W modeling guideline uses "significant concentration gradients" to determine what offsite sources must be explicitly modeled, vs. those represented by background monitoring. Alaska LNG (Project) presented their analysis of significant concentration gradients relevant for an alternate site that is approximately 3 miles north of the proposed site of GTP. The Project demonstrated that the alternate GTP site was beyond the significant concentration gradients of all other offsite sources, so no offsite sources need be explicitly modeled and PBU A-Pad background data is appropriate to complete cumulative modeling. Consistent with recent past practice for similar projects in Alaska, the Project proposes to use a qualitative approach to determining impacts of ozone and secondary PM2.5 rather than photochemical grid modeling. The loading and atmospheric chemistry in Alaska is such that impacts can be appropriately represented through qualitative analysis. ADEC was in general concurrence with these approaches, and willing to participate in further discussions with EPA Region 10 and the Project.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 17-May-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	November 5, 2015
Sub-Project Name	Gas Pipeline	Location	8701 S Gessner Rd, Houston, TX 77074
Meeting Subject	Ongoing Technical Engagement - Tensile Strain Capacity Prediction Technology Development		

ATTENDEES			
Name	Organization	Name	Organization
Amelia Samaras	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Michele Panico	Alaska LNG Project
Amy Herhold	ExxonMobil URC	Mike Cook	ExxonMobil Development Corp
Doug Fairchild	ExxonMobil URC	Rick Noecker	Alaska LNG Project
Erling Ostby	Det Norske Veritas (U.S.A.), Inc	Rob Guisinger	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Huang Tang	ExxonMobil URC	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jeffery Gilliam	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Thomas Bubenik	Det Norske Veritas (U.S.A.), Inc
Justin Crapps	ExxonMobil URC	Wan Kan	ExxonMobil Development Corp
Ken Lee	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Wentao Cheng	ExxonMobil URC
Mario Macia	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Meeting Purpose: To Discuss ExxonMobil proprietary Tensile Strain Capacity Model & carry out independent third party review	
2	Meeting Summary	An introduction to Strain-Based Design (SBD) pipelines and ExxonMobil (EM) SBD technology portfolio was provided and an overview of tensile strain capacity prediction research was provided. The development of the GTN model-based tensile strain capacity prediction tool was discussed by the group. Full-scale pipe testing to measure tensile strain capacity was reviewed and discussed. The two day meeting concluded with a review of EM SBD pipeline integrity management technology.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM) TEMPLATE	<b>NEEDS DCN</b> 9-Nov-15 REVISION: 1A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Integrated	<b>Date of Meeting</b>	November 9 2015
<b>Meeting Subject</b>	Alaska LNG Air Quality	<b>Location</b>	Multiple (Teleconference hosted in Anchorage)

ATTENDEES			
Attended By	Organization	Attended By	Organization
Maggie Suter	FERC	Norman Scott	Alaska LNG Project
Gertrude Johnson	FERC	Brian Hoefler	SLR for Alaska LNG Project
Harry Jeudy	FERC	Bruce Macdonald	SLR for Alaska LNG Project
Jennifer Lee	NRG	Al Trbovich	SLR for Alaska LNG Project
Ashley Rosia-Tremonti	NRG	Bart Leininger	ALG for Alaska LNG Project
Miriam Hacker	ERM	Tom Damiana	AECOM for Alaska LNG Project
Jim Pfeiffer	Alaska LNG Project	Jon Schmidt	exp for Alaska LNG Project

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and SSHE moment	Alaska LNG	5 mins
2	Meeting purpose and objectives	Alaska LNG	5 mins
3	Alaska LNG early information request response issued on Oct 1 2015 – FERC feedback/questions	FERC/NRG	30 mins
4	Alaska LNG Project team proposed responses to Agency Comments on the Project's proposed air quality approach – refer to 'Alaska LNG Project Proposed Responses to Agency Comments Draft 10-12-15' . Items for discussion highlighted by Alaska LNG.	Alaska LNG	90 mins
5	Project modeling protocol Table of Contents – refer to 'Alaska LNG Project Modeling Protocol TOC Draft 11-1-15'. Items for discussion highlighted by Alaska LNG.	Alaska LNG	30 mins
6	Wrap up and next steps	All	20 mins


MEETING OBJECTIVES	
1	Obtain feedback from FERC on early information request response from the Alaska LNG Project team.
2	Alaska LNG Project team to present proposed responses to agency comments, seeking general alignment with FERC prior to further agency engagement.
3	Alaska LNG Project team to share early concept of Project air modeling protocol, seeking general alignment with FERC prior to further agency engagement.

## DISCUSSION

Item	Agenda Item(s) & Notes
1	<p>Alaska LNG early information request response issued on Oct 1 2015 – FERC feedback/questions</p> <ul style="list-style-type: none"> <li>• FERC requested clarification on when the Alaska LNG Project plans further engagement with Federal and State agencies. The Project team indicated the next round of agency consultation is planned for Jan 2016.</li> <li>• FERC indicated their expectation that an air modeling protocol be developed during pre-filing. In particular, the protocol should address issues that are unique to NEPA e.g. marine vessel emissions, Sensitive Class II AQRVs.</li> <li>• FERC's expectation is that the Alaska LNG Project team will continue to engage and work with agencies on approaches to air quality modeling impact analyses and mitigation, and seek to resolve issues with agencies directly. The Project team confirmed intentions that align with this expectation.</li> </ul>
2	<p>Alaska LNG Project team proposed responses to Agency Comments on the Project's proposed air quality approach – refer to 'Alaska LNG Project Proposed Responses to Agency Comments Draft 10-12-15'. Items for discussion highlighted by Alaska LNG.</p> <ul style="list-style-type: none"> <li>• NPS requests that the Alaska LNG Project model air quality impacts from construction emissions. However, FERC noted that while there may be grounds to model impacts for environmentally sensitive areas (e.g. Class 1 areas) they have never required an applicant to model construction emissions. FERC noted that modeling construction emissions is very difficult and distinctly different from modeling operations emissions.</li> <li>• Whilst FERC is generally supportive of the Project team's rationale for not modeling construction emissions, they did clarify that resolution of this issue should first be sought with NPS directly. FERC recommended follow up with NPS by the Project team to ensure an understanding of the basis of NPS' request e.g. relevant precedents etc., The Project should provide a full explanation of its position, including a qualitative assessment of the effectiveness of construction BMPs, as part of the dialogue with NPS. FERC also recommended that if NPS persists with their position, the Project team should seek NPS guidance on how to model construction emissions.</li> <li>• FERC was in general agreement with the Project team's proposed approach to provide documented justification for non-PSD quality ambient air quality data sources. There are many valid reasons to use data other than the closest data source.</li> <li>• FERC was in general agreement with the Project team's rationale for using the MM5 simulation rather than WRF for Cook Inlet analyses. However, FERC suggested further dialogue with EPA to explain the Project's rationale for use of MM5, and to understand EPA's reasoning for suggesting WRF. FERC offered to participate in a follow-up phone call with EPA, ADEC and the Alaska LNG Project team if agreement cannot be reached.</li> <li>• FERC indicated that analysis against NAAQS criteria for Heater Station #1 would be sufficient (not necessary to address AQRV). FERC indicated that this would be an example where the Project should clarify that it performed analysis beyond minimum requirements.</li> </ul>

## DISCUSSION

Item	Agenda Item(s) & Notes
3	<p>Project modeling protocol Table of Contents – refer to 'Alaska LNG Project Modeling Protocol TOC Draft 11-1-15'. Items for discussion highlighted by Alaska LNG.</p> <ul style="list-style-type: none"> <li>• FERC indicated that they have not often historically required air quality modeling or even emission calculations for different project alternatives. FERC noted that it evaluates each alternative, progressively obtaining more refined information as an alternative remains feasible and potentially preferable, until it is clear an alternative is not feasible or preferable, at which time, no further analysis of that alternative is necessary. Emission estimates and modeling of emissions impacts from alternatives would only be required when emissions may be a significant point of difference between alternatives. Modeling may only be required for feasible and potentially environmentally preferable alternatives. Therefore it was agreed that Project Alternatives are not applicable to the Modeling Protocol at this time, and that emissions for alternatives are most appropriately addressed in RR 10 (Alternatives), not RR 9.</li> <li>• FERC is supportive of comparing Project impacts to standard FLAG AQRV evaluation criteria. Acceptable impacts should be determined on a case-by-case negotiated basis with Federal Land Management agencies. The expectation is that Class I areas will have a higher level of protection than sensitive Class II areas. FERC can help facilitate AQRV discussions with FLMs if needed.</li> <li>• Normal Operations scope should align as closely as possible with the air permitting process. A key area where FERC requires additional modeling analysis is for marine vessel operations within the moored safety/security zone around the Marine Terminal (typically 500 yards or as set by the US Coast Guard) and for LNGC operations whilst at dock/loading. Be sure to capture all of the marine operating scenarios (transit, hoteling, loading, etc) and vessels (LNG carriers, tugs, coast guard escort vessels, etc).</li> <li>• For modeling, short-term standards should be evaluated based on the maximum equipment emission rates. Long-term standards can be evaluated using average emission rates.</li> <li>• The NEPA cumulative modeling analysis should be similar to the air permitting cumulative analysis. One difference in the cumulative analysis is that offsite sources evaluated in the NEPA process should include non-jurisdictional sources (i.e., connected actions), and other reasonably foreseeable sources in the public domain, qualitatively at a minimum. If more complete information is available prior to filing the FERC application, the Project team should consider including a quantitative assessment.</li> <li>• FERC was in general agreement with the Project team's approach to perform a qualitative secondary PM<sub>2.5</sub> and Ozone assessment. FERC has not previously required a quantitative photochemical modeling analysis unless there is an ozone nonattainment area in the project vicinity or it was requested by the state air permitting agency as part of a PSD review. Alaska does not have an ozone nonattainment area so modeling is not required for the Alaska LNG Project at this time.</li> <li>• FERC identified that an air-permit type PSD increment analysis is only required for facilities that trigger PSD review and exceed the SILs. LNGC and other marine vessels are to be included as increment consuming sources for the LNG Terminal modeling.</li> <li>• For general Project precedent guidance from an analogous greenfield project, FERC recommended the Corpus Christi EIS and FERC application documents.</li> </ul>
4	<p>Other items - Conformity Analysis</p> <ul style="list-style-type: none"> <li>• If Project-related direct and indirect emissions within a nonattainment or maintenance area are not in the SIP, they need to be accounted for by FERC in a conformity analysis.</li> <li>• Given the project complexity, FERC recommended that Alaska LNG Project legal staff review of the 2010 rulemaking updating the General Conformity Regulations, along with past EPA issued guidance documents, to establish a Project position about which direct and indirect sources are considered direct and indirect for the purposes of conformity analyses and determination.</li> <li>• Considerations were construction emissions, commuter sources, freight sources, work camps – wherever emission may be generated within the Fairbanks non-attainment zone.</li> <li>• FERC indicated their preparedness for further dialogue with the Alaska LNG Project team, at recurring intervals if needed, to review and discuss the Project team's considered position on the scope of the Alaska LNG Project's conformity analysis.</li> </ul>

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DISCUSSION	
Item	Agenda Item(s) & Notes
5	<p>Next Steps/Way Forward</p> <ul style="list-style-type: none"> <li>• FERC was supportive of the Alaska LNG project sharing the next iteration of the modeling framework with agencies, without further consultation with FERC.</li> <li>• The Project team offered to provide notice to FERC of upcoming agency engagements, and to provide FERC the option of participating at their discretion.</li> <li>• The Project team reiterated their intention to move forward with further agency engagement in Jan 2016.</li> </ul>

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	November 12, 2015
<b>Sub-Project Name</b>	Integrated (All Segments), Gas Treatment Plant	<b>Location</b>	Seattle, WA
<b>Meeting Subject</b>	Review application of sharp gradients approach to GTP and project-wide approach to Ozone and Secondary PM 2.5 analysis, in advance of a request letter to USEPA for approval of approaches		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alan Schuler	Alaska Department of Environmental Conservation (ADEC)	Jim Pfeiffer	Alaska LNG Project
Herman Wong	United States Environmental Protection Agency (EPA)	Tiffany Samuelson	AECOM
James Renovatio	Alaska Department of Environmental Conservation (ADEC)	Tom Damiana	AECOM

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	USEPA conceptual concurrence received on application of significant concentration gradients at GTP alternate site and qualitative impact analyses for Ozone and PM2.5 for Project	EPA's Appendix W modeling guideline uses "significant concentration gradients" to determine what offsite sources must be explicitly modeled, vs. those represented by background monitoring. Alaska LNG (Project) presented their analysis of significant concentration gradients relevant for an alternate site that is approximately 3 miles north of the proposed site of GTP. The Project demonstrated that the alternate GTP site was beyond the significant concentration gradients of all other offsite sources, so no offsite sources need be explicitly modeled and PBU A-Pad background data is appropriate to complete cumulative modeling. Consistent with recent past practice for similar projects in Alaska, the Project proposes to use a qualitative approach to determining impacts of ozone and secondary PM2.5 rather than photochemical grid modeling. The loading and atmospheric chemistry in Alaska is such that impacts can be appropriately represented through qualitative analysis. EPA was in general concurrence, and willing to provide that concurrence in written response to a request letter from project.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	November 16, 2015
<b>Sub-Project Name</b>	Gas Treatment Plant	<b>Location</b>	10613 West Sam Houston Pkwy N, Houston, TX 77064
<b>Meeting Subject</b>	To seek clarification on technical questions associated with thermal radiation and vapor dispersion analysis		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Adrienne Rosecrans	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Andrew Kohout	FERC, Division of Gas - Environment and Engineering Office of Energy Projects	Heather Ferree	Federal Energy Regulatory Commission (FERC)
Hugh Thomas	FERC, Division of Gas - Environment and Engineering Office of Energy Projects	Paul McKenny	Alaska LNG Project
Phil Suter	CH-IV LNG Specialists		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Summary of Call	Questions from the project team to FERC were related to the hazard analysis associated with Appendix Q of RR13. Hole size for hazard analysis was reviewed with FERC's preference to be consistent with DOT's upcoming determination. Alaska LNG project can, however, go forward with current proposed hole size and FERC will advise if there are any issues. WRT overpressure analysis, project needs to document why analysis to be used is conservative.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## Meeting Notes

<b>Title:</b>	<b>AKLNG Project: DNR Water Pre-application Meeting</b>		
<b>Location:</b>	<b>Atwood Conference Room 1420</b>		
<b>Date:</b>	<b>Monday, Nov 16, 2015</b>	<b>Time: 10:30-12:30</b>	<b>Duration: 2 hours</b>
<b>Attendees:</b>	<b>AKLNG:</b> Claire Joseph, Adrienne Rosecrans, Alana Smith, Jeff Raun, Julie McKim, Sandra Barnett <b>DNR Water:</b> Mike Walton, Henry Brooks <b>SPCS:</b> Shannon Miller (NSGCRP), Jennifer Murrell		
<b>Purpose:</b>	AKLNG Permit Project: DNR Water team to outline anticipated applications and water use approvals necessary for AKLNG project planning (scientific studies), project construction, and ongoing operation.		
<b>Meeting Notes:</b> <ul style="list-style-type: none"> <li> <b>Water Right</b> – Water use of a permanent nature (Annual /Seasonal); right to use of water from/in a source (water body, lake, stream, aquifer, or ice), but subject to earlier priority date water rights on the same source and possible changes in the condition of water occurrence; applies to divert, impound, withdraw, or use of a “significant amount of water” as defined in 11 AAC 93.035. Also see AS 46.15.180(a)(1) for the statutory application requirement; and 11 AAC 93.970(33) definition of “non-consumptive water use”, (37) definition of “water source”, and (22) definition of “water body”. <ul style="list-style-type: none"> <li>First in time, first in right concept = First application accepted for filing generally takes priority over other water right applications accepted later. Application must be substantially complete to be accepted. See below <b>DNR Water Checklist of Core Information</b> that outlines the minimum items necessary for acceptance of application. However, additional documentation/information may be requested as described below.</li> <li>Granting water right is a disposal of interest, thus requiring prior public/agency notice unless specifically exempted in regulations.</li> <li>Review Process = <ul style="list-style-type: none"> <li>Application reviewed (adjudicator / hydrologist) – timeline varies</li> <li>15 days Public/Agency Notice Comment Period</li> <li>Decision within 30 days of last objection (180 days if a hearing is held) or close of public comment</li> <li>Application to issuance time can take one or more years depending on workload, etc.</li> </ul> </li> <li>Required for application adjudication –outlined in application instructions and required fields of information including water source (one source per application but multiple take points from same source allowed), take point(s), water transport route, use area, water discharge area and general project description. A general rough estimate of water needs (e.g. for man camps – 50 gals/day per person). Applicant should estimate high for anticipated water use as this can always be scaled back later but will not have option to increase amount later on the same application.</li> <li>Obtaining a water right (certificate of appropriation) is a two-step process (permit</li> </ul> </li> </ul>			

- issuance followed by certificate issuance after beneficial use is established)
  - Will require AKLNG to apply for water right and not their contractor
  
- **Temporary Water Use Authorization (TWUA)** – Temporary in nature (typically construction related); five years maximum per authorization, including one-time extension allowed. Can be reapplied for if temporary use needed beyond five years. Authorization is required to divert, impound, withdraw, or use a “significant amount of water.” Up to five separate sources per application/authorization. No priority date associated with a TWUA.
  - Review Process =
    - Application reviewed (adjudicator) – timeline varies but applicant required to apply minimum of 60-days prior to start of use or construction of works for water use
    - Agency notice (ADEC & ADF&G required to be notified
    - Drafting of review/determination document and TWUA
    - Issuance
  - Hydrologic Unit Map-1987 – TWUA authorization needed for each Cataloging Unit, approximately 16, to dewater (near surface groundwater from the unconfined water table aquifer) newly trenched/excavation areas during construction (separate TWUA authorization required for dewatering standing surface water in material sites and for crossings of water bodies or streams involving a diversion, withdrawal, impoundment or use of a “significant amount of water”).
  - Surface Water or Confined Aquifer – TWUA required for any other water needs (divert, impound, withdraw, or use) from water bodies, ponds, lakes, streams, rivers, confined aquifers, or ice above the “significant amount of water” threshold for field studies, construction or maintenance activities of a temporary nature. TWUA is needed to impound, withdraw or divert a “significant amount of water” even if not for a specific water use purpose.
  - Water stored to sample water quality prior to discharging may require a TWUA depending on volumes and contact with potential contaminant sources.
  - Submit application at least 60 days prior to construction.
  
- **Changes of Use:**
  - Obtain prior approval from DNR Water Section before change acquired (via land purchase) water rights to AKLNG uses (see 11 AAC 93.930)
  - May relinquish acquired water rights at the same time submit new AKLNG use application, which will increase unappropriated water Available for appropriation.
  
- **General Info:**
  - Metering data is generally public information. AKLNG may request information from DNR Water.
  - Metering or tracking water use may be a requirement of water rights/authorizations and the Project may be required to submit monthly/quarterly/annual report(s).

**DNR Water Checklist of Core Information:**

The minimum items currently required for an Application for Water Right to be deemed substantially complete for acceptance of said application are as follows:

- Application fee.
- Type of water source identified – ground or surface water.
- Location of water source identified.
- Location of water use area identified.
- Total amount of water request identified.
- Type of water use identified.
- Months of water use identified.
- Original signature of applicant on the application form required.
- Evidence that the applicant has a present possessory interest in the property where the water is to be beneficially used (copy of deed, patent, license, lease, mining location certificate, or other instrument) or a copy of a completed application that has been filed with the appropriate agency to acquire permission for the use of federal, state, or municipal property.
- Legible map that includes MTRS (meridian, township, range, section) information, such as a subdivision plat, USGS Topo or borough tax parcel map, or Alaska Mapper map printout.

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	November 20, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	2525 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Uniform Relocation Act applicability; Nikiski growth rate projections to be used in the TIA and Feasibility Report		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Mark Dalton	HDR
Jeff Raun	Alaska LNG Project	Matthew Homeman	Alaska LNG Project
John Linnell	Alaska Department of Transportation and Public Facilities (ADOTPF)	Mike Noonan	HDR
Katherine Hill	HDR	Nate Larson	HDR
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Guttormson	Alaska LNG Project
Kjell Knutsen	Alaska LNG Project	Scott Thomas	Alaska Department of Transportation and Public Facilities (ADOTPF)
Leslie Robbins	HDR	Scott Wharton	HDR

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	KSH URA and Nikiski Growth Projections	John Linnell explained a meeting with FHWA needs to happen because they are a funding partner and may need to bring in other national resources. Mark will call Elizabeth Hoffman once John Linnell has reached out to her to initiate the discussion and to set up a meeting with FHWA, DOT&PF and project staff. HDR will revise the growth rate and re-circulate the numbers for input. Jennifer said she would reach out again to Max Best (at the KPB) regarding possibly updating the numbers.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	November 23, 2015
<b>Sub-Project Name</b>	Gas Treatment Plant	<b>Location</b>	Juneau, AK
<b>Meeting Subject</b>	Describe how rooftop intercoolers at PBU CCP/CGF impact turbine exhaust plumes, the specific exhaust plumes impacted and an approach to account for these impacts in modeled stack parameters		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alan Schuler	Alaska Department of Environmental Conservation (ADEC)	Jim Pfeiffer	Alaska LNG Project
Greg Arthur	BP Exploration Alaska	Tom Damiana	AECOM
James Renovatio	Alaska Department of Environmental Conservation (ADEC)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Alaska LNG (Project) will not further pursue modeling refinements to combine roof top intercooler and turbine exhaust plumes for GTP cumulative modeling approach at this time.	At the proposed location, GTP must explicitly model two nearby facilities. These facilities have roof top intercoolers which are nearby and believed to increase the dispersion of turbine exhausts. There are several approaches to modeling the nearby facilities that could allow the intercooler effect to be incorporated. Before applying these approaches, the nature of the intercooler impacts on the turbine exhausts would need further technical delineation. That technical delineation would likely require more time to accomplish and gain agency acceptance than the Project's schedule would allow. The Project concluded that the intercooler refinements should not be further pursued at this time.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



MOM  
BI-WEEKLY MEETING WITH DOT&PF

USAL-HD-CAMOM-00-000012-003  
24-Nov-2015  
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MEETING DETAILS

<b>Sub-Project Name</b>	LNG Facilities	<b>Date of Meeting</b>	24 November 2015
<b>Meeting Subject</b>	MOM-Bi-Weekly Meeting with DOT&PF		

ATTENDEES


Attended By	Organization	Attended By	Organization
Jeff Raun	Alaska LNG Project	Scott Wharton	HDR
		Mark Dalton	HDR
Ken Morton	ADOT&PF	Carol Snead	HDR
David Bloom	ADOT&PF		

AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Meeting review/follow-up from 20 November meeting with DOT&PF	Mark D	
2	Growth rates	Scott W	
3	MOU between AKLNG, DOT&PF, and KPB	Scott G	

ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date


	MINUTES OF MEETING (MOM)	DCN tbd 30-Aug-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	December 2, 2015
Sub-Project Name	Gas Pipeline	Location	8701 S Gessner Rd, Houston, TX 77074
Meeting Subject	Pipeline coatings update, ILI capabilities for strain monitoring and SBD SP Condition Language and Conidtion Review, MLB SP, Geotechnical Program, preparation for December 16 meeting in D.C.		

ATTENDEES			
Name	Organization	Name	Organization
Alyssa Samson	Alaska LNG Project	Rob Guisinger	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Andrew Collard	Alaska LNG Project	Robert Albrecht	Alaska LNG Project
Bill Lowry		Sandra Barnett	Alaska LNG Project
Bryce Brown		Stefanie Asher	ExxonMobil
Christopher De Leon	Rosen	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jim Harrison		Thomas Walther	
Mario Macia	Alaska LNG Project	Tracy Barnes	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Michael Chard	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Yong Yi Wang	
Rick Noecker	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Three Layer Coating Update	
2	Three Layer Coating Update	
3	ILI Capabilities for Strain Monitoring	
4	MLBV Study	
5	Geotechnical Program Overview	
6	SBD SP and other topics	

	MINUTES OF MEETING (MOM)	DCN tbd 17-May-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Phone Call	Date of Meeting	December 8, 2015
Sub-Project Name	Kenai Spur Highway reroute	Location	2525 C St, Anchorage, AK 99503
Meeting Subject	Bi-Weekly Meeting with DOT&PF (KSH relocation)		

ATTENDEES			
Name	Organization	Name	Organization
Carol Snead	HDR	Mark Dalton	HDR
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Guttormson	Alaska LNG Project
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Wharton	HDR

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Bi-Weekly Meeting with DOT&PF (KSH relocation)	Discussed preparations needed for a meeting with FHWA. Determined that alignment on the agenda and meeting objectives is needed between Alaska LNG Project and DOT&PF before scheduling the meeting. DOT&PF would like to understand the project's position on URA and NEPA applicability before the meeting with FHWA. Give DOT&PF and opportunity to view URA and NEPA whitepapers. Provide DOT&PF with recently obtained growth scenarios from environmental team working on the FERC EIS for Alaska LNG project, make recommendation for a scenario to use in the TIA
2	Revised look at traffic projections for KSH Relocation	HDR provided more information on the traffic projections for the feasibility report.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

Meeting Type	Phone Call	Date of Meeting	December 11, 2015
Sub-Project Name		Location	Calais I, 3201 C St, Anchorage, AK 99503
Meeting Subject	Telephone call to discuss HIA and Subsistence issues, Resource Report schedules, etc.		

## ATTENDEES

Name	Organization	Name	Organization
Mark Jennings	Alaska LNG Project	Mark Morones	Alaska Department of Natural Resources (ADNR)

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	HIA status update for 2nd Draft RR5, Subsistence issues, and Resource Report schedule	Mark Morones, Large Project Coordinator - State of Alaska Department of Natural Resources, called to speak about the Health Impact Assessment being conducted for the Alaska LNG Project and how DHSS and their contractor NewFields can assist in providing an update on the status of the HIA for the 2nd Draft RR5. Alaska LNG would like to include an update on the status of the HIA, including a summary of the work conducted in 2015 and what will be conducted in 2016. Project would also like a brief summary (like a table of contents) of what the final HIA will contain when completed later in 2016. Mr. Morones appreciated the clarification. We also discussed possibly accessing Traditional Knowledge information that was collected for the Susitna-Watana Hydro Project. TK collected from several communities for the Susitna-Watana Project would be useful for the Alaska LNG Project. I explained that we would like to understand the process for obtaining the necessary information so we can make a determination as to whether or not it is reasonable to do so. Mr. Morones said he would make some inquiries and get back to me. Finally, Mr. Morones indicated that DHSS and NewFields would like to participate in Alaska LNG meetings that pertain to subsistence. Subsistence is a major issue with regard to health and nutrition, particularly in rural communities. DHSS would appreciate being briefed on the ongoing subsistence activities and findings for Alaska LNG.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	December 14, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	2525 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	DOT&PF and HDR discussion of high-level review and approval process		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Wharton	HDR

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Plan review and approval process on high level	Explained that overall approach was to follow the DOT&PF guidance documents and follow their standards as much as feasible. Ken agreed with this approach

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	December 15, 2015
<b>Sub-Project Name</b>	Gas Treatment Plant	<b>Location</b>	Seattle, WA
<b>Meeting Subject</b>	Introduce Agencies to Effective Building Dimensions (EBD) Wind Tunnel Study		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alan Schuler	Alaska Department of Environmental Conservation (ADEC)	Mahbubul Islam	United States Environmental Protection Agency (EPA)
Dave Bray	United States Environmental Protection Agency (EPA)	Mark Jen	United States Environmental Protection Agency (EPA)
James Renovatio	Alaska Department of Environmental Conservation (ADEC)	Rob Elleman	USEPA, Region 10 (Federal & Delegated Air Programs Unit)
Jim Pfeiffer	Alaska LNG Project	Tom Damiana	AECOM
Linsey DeBell	AECOM		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Rosecrans		Scott	
Rood		Becerra	
Lopez			

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	EPA Region 10 Concurrence Support Requested for EBD Analysis and Other Elements of the Alaska LNG NEPA Air Modeling Protocol	Meeting was prompted by retirement of Region 10 resource working NEPA air modeling protocol issues for the Alaska LNG Project. EPA R10 staff working on the project were provided an overview of the project relevant for air impacts, and the Project's November 2015 request for concurrence on several modeling issues was discussed. EPA representatives indicated that concurrence/approval of the November request was not necessary for the Project to move forward with modeling, robust justification of approach is needed in the modeling protocol. Agency participants were provided background on how the AERMOD Building Profile Input Program (BPIP) fails to adequately represent complex industrial facilities such as the existing Prudhoe Bay gas plants, and how the BPIP shortcomings can be empirically demonstrated and corrected through use of wind tunnel studies that determine a more appropriate Effective Building Dimensions (EBD) for these gas plants.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 19-May-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	December 16, 2015
Sub-Project Name	Gas Pipeline	Location	Washington, DC
Meeting Subject	2015 Alaska LNG Project End of Year Review - Pipeline		

ATTENDEES			
Name	Organization	Name	Organization
Alan Mayberry	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Melanie Stevens	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Forrest Pittman	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Michael Zhang	Alaska LNG Project
Jack Beattie	Alaska LNG Project	Rick Noecker	Alaska LNG Project
Jeffery Gilliam	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Robert Guisinger	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jeffrey Wiese	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Ruben Medrano	Alaska LNG Project
Jennifer Owens	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Sandra Barnett	Alaska LNG Project
Ken Lee	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Kevin Avery	ConocoPhillips	Susan Carter	ExxonMobil
Marcello Panelo	BP DC Office		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Project Update	The southern 400 miles of the pipeline route was the focus in 2015 and AGDC conducted the borehole program. No big surprises were encountered. A projection of regional warming will be done to account for permafrost impacts. Importing pipe into the United States was briefly discussed. The 48 inch diameter pipeline case continues to be studied. Full scale pipe testing is 80% complete and weld procedures for SBD pipe are underway. ASAP and AKLNG routes are quite coincident.
2	Summary of 2015 PHMSA Engagement including schedule review	Highlights of the 2015 engagements between Alaska LNG and PHMSA were reviewed by Alaska LNG. Alaska LNG noted that PHMSA has been helpful in providing other contacts to help Alaska LNG gather further information and data. Double joint fabrication has been identified as start of construction. The Project mentioned the need to stay on schedule, including keeping permitting on schedule in order to manage costs.
3	Special Permit Filing	The number of potential special permits was discussed: one for SBD and the others potentially grouped together. PHMSA will take under advisement. SBD conditions were discussed with PHMSA identifying that global or regional warming is an important topic that requires further discussion in other meetings. Other SP's under consideration are: Crack Arrestor Spacing MLBV Spacing
4	Other Technical Discussion	Offshore Cover in Cook Inlet: Alaska LNG had previously requested through an RFI to PHMSA that Cook Inlet is classified as offshore. Due to the current in Cook Inlet, Alaska LNG proposes not to bury the pipeline across CI. PHMSA has not yet responded. Multi-layer coating: 3LPO and industry experience was discussed. There will be more discussion on coating options in 2016.

ACTION ITEMS
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	MINUTES OF MEETING	USAI-PS-BPDCC-00-000002-005 20-JAN-16
		PAGE 1 OF 2

MEETING DETAILS			
<b>Sub-Project Name</b>	All / Integrated	<b>Date of Meeting</b>	20-Jan-16
<b>Meeting Subject</b>	State Regulatory Coordination	<b>Location</b>	Anchorage

ATTENDEES			
Attended By	Organization	Attended By	Organization
Ed Fogels	Alaska DNR	Steve Butt	Alaska LNG Project
Don Perrin	Alaska DNR	Charlie Kominas	Alaska LNG Project
Jason Walsh	Alaska DNR	Ruben Medrano	Alaska LNG Project
Mark Morones	Alaska DNR	Karen Wuestenfeld	Alaska LNG Project
Shannon Miller	Alaska DNR	Claire Joseph	Alaska LNG Project

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions & objective		
2	Review list of potential opportunities for State support		


ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1	Provide schedule update regarding Resource Report submittals	K. Wuestenfeld / M. Morones	02/05/2016
2	Schedule meeting to discuss Project mitigation approach and opportunities	K. Wuestenfeld / D. Perrin	01/25/2016
3	Organize periodic leadership update meetings with S. Butt & E. Fogels	R. Medrano / D. Perrin	01/22/2016

DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
1	Participant introductions and safety moment	R. Medrano
2	Steve Butt thanked North Slope Gas Commercialization Permitting Coordination Team for their regulatory & permitting support for the Project to date. E. Fogels explained that the DNR Team is in place to support Projects in State agency coordination as well as working strategic issues.	S. Butt & E. Fogels

## DISCUSSION

Item	Agenda Item(s) / Notes	Comments
3	<p>Reviewed list of potential opportunities for State support for Alaska LNG regulatory process, including the following discussed among meeting participants:</p> <ul style="list-style-type: none"> <li>• Consultation during permitting pre-application to ensure submitted applications are complete</li> <li>• Verifying &amp; supporting alignment between regional &amp; headquarters federal agency offices on strategic issues</li> <li>• ANILCA Title XI authorizations for Denali National Park pipeline routing</li> <li>• Supporting federal regulatory agency support and continuity through 2016 election and federal administration transition</li> <li>• Opportunity for State to provide subject matter expertise as Applicant (Project sponsor)</li> <li>• State participation in framing opportunity for mitigation approaches which address federal initiatives and at same time provide greater benefit at a given cost</li> <li>• Inter-agency (state and federal) coordination of permit/approval requirements, particularly for pipeline with multiple regulatory jurisdictions (e.g. ROW requirements, implementation plans, notices to proceed)</li> <li>• Leveraging / use of existing inter-agency working groups to work Project-related issues</li> <li>• Supporting regulatory changes where inefficiencies exist (e.g. TWUP)</li> </ul>	All

Attachments:

	MINUTES OF MEETING (MOM)	USAKE-PT-SGPER-00-0180-017
		22-JAN-2016 REVISION: 0 PAGE 1 OF 2

MEETING DETAILS			
<b>Sub-Project Name</b>	Mainline (Pipeline)	<b>Date of Meeting</b>	1/22/16
<b>Meeting Subject</b>	MOM – Winter 2015-16 Pipeline G&G Discussion with SHPO regarding Cultural Resources Inventory, Assessment, and Monitoring Plan	<b>Location</b>	Teleconference & SHPO Office

ATTENDEES			
Attended By	Organization	Attended By	Organization
Shina Duvall	ADNR-SHPO	Steve Ellsworth	exp for Alaska LNG
McKenzie Johnson	ADNR-SHPO	Mike Kelly	AECOM for Alaska LNG
Shannon Miller	ADNR-SPCS	Nick Simmons	ASRC Energy Services for Alaska LNG
Norm Scott	Alaska LNG	Julie McKim	Alaska LNG

DISTRIBUTION (Attendees plus the following individuals)			
Name	Organization	Name	Organization
Caryn Rea	Alaska LNG		

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	SSHE Moment	Norm Scott	5 min
2	Overview of Alaska LNG Winter 2015-16 Pipeline Geotechnical and Geophysical Program	Norm Scott	5 min
3	Overview of Alaska LNG Cultural Resources Inventory, Assessment, and Monitoring Plan for the Winter 2015-16 Pipeline Geotechnical and Geophysical Program (Plan)	Norm Scott	5 min
4	Discuss SHPO Concurrence with finding of "No Historic Properties Affected"	Norm Scott	5 min

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1	Send Word version of Plan to Shina Duvall and McKenzie Johnson	J. McKim	1/22/16
2	SHPO to mark up the Plan in Track Changes and send back to Alaska LNG for review	S. Duvall & M. Johnson	1/25/16
3	Alaska LNG to revise Plan and re-submit to SHPO with revised cover letter requesting concurrence of a conditional No Adverse Effect on Historic Properties	J. McKim & N. Simmons	1/29/16

DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
1	Overview of Alaska LNG Winter 2015-16 Pipeline Geotechnical and Geophysical Program	SHPO requested clarification on the number of boreholes to be drilled and what is the diameter of the boreholes. Alaska LNG indicated that the drill site icons on the Area of Interest figures in the submitted report each equal a single borehole.

DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
2	Overview of Alaska LNG Cultural Resources Inventory, Assessment, and Monitoring Plan for the Winter 2015-16 Pipeline Geotechnical and Geophysical Program	<p>SHPO noted the following items that need to be revised in the Plan:</p> <ol style="list-style-type: none"> <li>1. Need to be clear that if a potential resource is found in the field, work will stop and SHPO and other responsible parties will be consulted via phone and/or email regarding the significance of the site. Work would only resume upon an affirmative statement from SHPO. Email communications would be preferred so photos, etc. could be transmitted, but it is understood that communications may be limited at some remote sites and mutually acceptable workarounds will be managed as appropriate.</li> <li>2. Plan needs to include a description of the challenges faced by the archaeologist doing inventory surveys in the winter and potential limitations.</li> <li>3. SHPO contact information needs to be updated if resources are found.</li> </ol>
3	Overview of Alaska LNG Cultural Resources Inventory, Assessment, and Monitoring Plan for the Winter 2015-16 Pipeline Geotechnical and Geophysical Program	SHPO requested clarification regarding the identification of access routes. Access routes are identified on the figures in the Plan and will be ground-truthed, but are subject to modification in the field. Access routes as shown avoid existing cultural sites.
4	Overview of Alaska LNG Cultural Resources Inventory, Assessment, and Monitoring Plan for the Winter 2015-16 Pipeline Geotechnical and Geophysical Program	SHPO asked about land ownership and Alaska LNG provided a list of the land owners across all the Areas of Interest.
5	Overview of Alaska LNG Cultural Resources Inventory, Assessment, and Monitoring Plan for the Winter 2015-16 Pipeline Geotechnical and Geophysical Program	SHPO asked if snow cover requirements will be factored into travel activities – suggesting that the on State properties overland travel restricted to periods with >12 inches of snow. Alaska LNG said they expected the above mentioned snow travel restrictions to apply, and to be able to fully comply with such conditions. However the Project has yet to receive relevant permits to confirm related conditions.
6	Discuss SHPO Concurrence with finding of “No Historic Properties Affected”	SHPO recommended that a conditional finding of No Adverse Effect on Historic Properties would be more appropriate under the requirements of the National Historic Preservation Act. Once the Plan is revised, Alaska LNG can request concurrence of this finding. In response to Alaska LNG questions, SPCS indicated that finding should be sufficient for permitting / consultation requirements but will verify.



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	January 25, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	8701 S Gessner Rd, Houston, TX 77074
<b>Meeting Subject</b>	Strain Demand Methodology, 2016 PHMSA Engagement, FERC Filing Schedule and Special Permit administrative and technical filing considerations		

## ATTENDEES

Name	Organization	Name	Organization
Amelia Samaras	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Patrick McAlister	Alaska LNG Project
Andrew Collard	Alaska LNG Project	Rick Noecker	Alaska LNG Project
Jennifer Owens	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Rob Guisinger	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Julio Daneri	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Kay McIver	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Michael Zhang	Alaska LNG Project	Thomas Jurca	Alaska LNG Project
Norm Scott	Alaska LNG Project		

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	PHMSA Engagement and FERC Filing Process	PHMSA inquired regarding FERC's awareness of PHMSA's RR requirements regarding SP's
2	Strain Demand Methodology and potential SP makeup	PHMSA requires that the environmental information for the Special Permit be in the FERC RR's. MLVB and CA spacing requirements were discussed wrt CFR 192 requirements and risk mitigation. CA spacing adjustment near existing infrastructure to be included. Conditions and environmental information for pipeline coating should be handled separately from MLVB and CA spacing information. PHMSA can provide examples of SPA (special permit applications). PHMSA indicated the EI's would be stand alone documents. The PHMSA Environmental Assessment (EA) needs to state pro's and con's and what are the risks. The EA needs to convey the four key components for an EA: Purpose and Need, background and site description, alternatives and environmental impacts of the proposed actions and alternatives. Information must be available to the public.
3	Strain Demand Methodology - Arctic Pipeline Design Considerations	PHMSA inquired about more background on terrain mapping-how vegetation can provide information on underlying soils. Frost heave was discussed with PHMSA requesting a meeting with key agencies to review Strain Based (SBD) once the SBD MP's have been established. The Project identified that pipe in regions near the NS will not be SBD because that pipe will be operated in permafrost regions below freezing. Continuous permafrost ends around MP 180. Most important factors are construction clearing and pipe temperature with the later impacting 10's of feet while the former can extend over 100 feet in width.
4	Additonal Items	Offshore cover requirements - request for interpretation. Still awaiting signature. PHMSA confirmed they do not have a defined process for reviewing 'new and novel' technology but would be open to hear industry best practice

# ALASKA LNG

## MINUTES OF MEETING

<input type="checkbox"/> Meeting  <input checked="" type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG		
	<b>Meeting Subject:</b>	PHMSA Technical Engagement Meeting		
	<b>Date of Meeting:</b>	02/03/2016		
	<b>Number:</b>	USAP-PP-SAMOM-10-000020-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Steve Nanney		PHMSA	Steve Waters	DNV GL
Rob Guisinger		PHMSA	Angel Kowalski	DNV GL
Jennifer Owens		PHMSA	Mario Macia	AKLNG Project
Amelia Samaras		PHMSA	Alyssa Samson	AKLNG Project
Tom Bubenik		DNV GL	Rick Noecker	AKLNG Project
<b>DISCUSSION POINTS/ACTION ITEMS:</b>				
<b><u>Item</u></b>	<b><u>Discussion Points/Action Items</u></b>			<b><u>Lead</u></b>
1	Meeting Purpose: DVN GL report-out on multi-layer coatings review			All
2	Introductions and Overview			All
4	Coating History, Types and Properties			DNV GL
5	Coating System selection considerations			DNV GL
6	Feasibility of coating types			DNV GL
7	Overview of FBE and 3LPE/HPCC			DNV GL
8	Coating requirements and quality control			DNV GL
9	Review of past performance			DNV GL
10	Long-term feasibility <ul style="list-style-type: none"> <li>• Risk identification and mitigation actions</li> <li>• CP System design</li> <li>• Inspection and monitoring</li> </ul>			DNV GL
11	Summary <ul style="list-style-type: none"> <li>• General agreement that this method is a suitable selection so long as proper QA/QC is in place</li> </ul>			DNV GL

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	February 9, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Robert B. Atwood Building, 550 W 7th Ave, Anchorage, AK 99501
<b>Meeting Subject</b>	Identify a process for the Alaska LNG Project to acquire relevant traditional knowledge information from the Alaska Energy Authority's Susitna-Watana Hydroelectric Project		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Betsy McGregor	AEA	Mark Jennings	Alaska LNG Project
Lisa Gray	Alaska LNG Project	Mark Morones	Alaska Department of Natural Resources (ADNR)
Marie Steele	ADNR-Office of Project Mgmt/Permit		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Meeting with Alaska Energy Authority to Discuss Acquisition of TK Data	<p>On Tuesday February 9, 2016, Mark Jennings and Lisa Gray of the Alaska LNG project met with Betsy McGregor of the Alaska Energy Authority (AEA) and Marie Steele and Mark Morones of the Department of Natural Resources (DNR) to discuss a process for obtaining traditional knowledge (TK) information recently collected for the Susitna-Watana Hydroelectric Project. The meeting was arranged at Mark Jennings request by Mark Morones and was held at the DNR offices in Anchorage. The AEA is currently engaged in environmental studies for the Susitna-Watana Hydroelectric Project in interior Alaska. FERC is the lead federal agency for that project. The Alaska LNG Project has identified three communities for TK data collection that overlap with communities previously surveyed by the Susitna-Watana Hydroelectric Project. The communities are Cantwell, Eklutna and Tyonek. The TK data collected by the Susitna-Watana Hydroelectric Project is directly applicable to the Alaska LNG Project. In order to help minimize duplication of effort in those communities, the Alaska LNG Project wishes to acquire/share the TK data previously collected for those three communities. After describing the Alaska LNG Project needs for the TK data, Ms. McGregor outlined a process to solicit the information from the AEA. She directed the Alaska LNG Project to submit a letter to herself describing the information needed and the purpose. She said to be as descriptive as possible in describing the data needed. Ms. McGregor indicated that the process is fairly simple and straightforward. She asked that we copy Shannon Miller (SPCO) and Marie Steele on the request.</p>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MOM – MARINE ACTIVITY UPDATE FOR USCG SECTOR ANCHORAGE	USAL-PM-JAMOM-90-000009-000 11-FEB-16 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Marine	<b>Date of Meeting</b>	Feb. 11, 2016
<b>Meeting Subject</b>	Update USCG regarding Marine activity for USCG Sector Anchorage		

ATTENDEES			
Attended By	Organization	Attended By	Organization
Ed Stokes	AKLNG Project	CAPT Paul Albertson	USCG
Dennis Maguire	AKLNG Project	CDR Mersel	USCG
John Taylor	AKLNG Project	LCDR Franklin	USCG
		LT Chung	USCG
		MST1 Davis	USCG
		BMC Howard	USCG

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions	Dennis Maguire	5 min
2	Safety moment	John Taylor	10 min
3	Project overview	Ed Stokes	30 min
4	2016 On water activity	John Taylor	15 min
5	Cook Inlet pipeline crossing	Dennis Maguire	20 min
6	Marine Simulation	John Taylor	15 min
7	Emergency Response- Vessel Assurance (ERVA)	Dennis Maguire	15 min
8	Pipe-In-Pipe and fire main on trestle letters	Dennis Maguire	10 min

MEETING NOTES			
Item	Notes	Follow on work	Due Date
1	Project Overview: discussed <ul style="list-style-type: none"> <li>Layout</li> <li>AKLNG Marine design</li> <li>Construction methodology</li> <li>G&amp;G program</li> </ul>		
2	2016 On water activity: <ul style="list-style-type: none"> <li>Scope</li> <li>Geographic area</li> </ul>		
3	Cook Inlet Pipeline Crossing <ul style="list-style-type: none"> <li>Route Selection</li> <li>Pipe Characteristics</li> <li>Analysis</li> </ul>		

### MEETING NOTES

Item	Notes	Follow on work	Due Date
4	Marine simulations <ul style="list-style-type: none"> <li>• MOF</li> <li>• PLF</li> <li>• Aids to navigation</li> </ul>		
5	ERVA <ul style="list-style-type: none"> <li>• Timing</li> <li>• Scope</li> </ul>		
6	Pipe-in-Pipe <ul style="list-style-type: none"> <li>• Status of the letter accepting NFPA 59A (2013)</li> </ul>		

### ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

### MEETING DETAILS

<b>Sub-Project Name</b>	Marine	<b>Date of Meeting</b>	Feb. 12, 2016
<b>Meeting Subject</b>	Update USCG regarding Marine activity for USCG 17 <sup>th</sup> District Juneau		

### ATTENDEES

Attended By	Organization	Attended By	Organization
Ed Stokes	AKLNG Project	RADM Abel	USCG
Dennis Maguire	AKLNG Project	CAPT Cashin	USCG
John Taylor	AKLNG Project	CAPT Bornemann	USCG
		CAPT Styrwold	USCG
		James Robinson	USCG

### AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Introductions	Dennis Maguire	5 min
2	Safety moment	John Taylor	5 min
3	Project overview	Ed Stokes	20 min
4	2016 On water activity	John Taylor	10 min
5	Cook Inlet pipeline crossing	Dennis Maguire	10 min
6	Marine Simulation	John Taylor	10 min
7	Emergency Response- Vessel Assurance (ERVA)	Dennis Maguire	10 min
8	Pipe-In-Pipe and fire main on trestle letters	Dennis Maguire	5 min

### MEETING NOTES

Item	Notes	Follow on work	Due Date
1	Project Overview: discussed <ul style="list-style-type: none"> <li>Layout</li> <li>AKLNG Marine design</li> <li>Construction methodology</li> <li>G&amp;G program</li> </ul>		
2	2016 On water activity: <ul style="list-style-type: none"> <li>Scope</li> <li>Geographic area</li> </ul>		
3	Cook Inlet Pipeline Crossing <ul style="list-style-type: none"> <li>Route Selection</li> <li>Pipe Characteristics</li> <li>Analysis</li> </ul>		

### MEETING NOTES

Item	Notes	Follow on work	Due Date
4	Marine simulations <ul style="list-style-type: none"> <li>• MOF</li> <li>• PLF</li> <li>• Aids to navigation</li> </ul>		
5	ERVA <ul style="list-style-type: none"> <li>• Timing</li> <li>• Scope</li> </ul>		
6	Pipe-in-Pipe <ul style="list-style-type: none"> <li>• Status of the letter accepting NFPA 59A (2013)</li> </ul>		

### ACTION ITEMS


Item	Action Items/Topics	Assigned To	Due Date

# ALASKA LNG

## MINUTES OF MEETING

<input type="checkbox"/> Meeting  <input checked="" type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG		
	<b>Meeting Subject:</b>	PHMSA Technical Engagement Meeting		
	<b>Date of Meeting:</b>	02/22/2016		
	<b>Number:</b>	USAP-PP-SAMOM-10-000021-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Steve Nanney		PHMSA	Mario Macia	AKLNG Project
Rob Guisinger		PHMSA	Sandra Barnett	AKLNG Project
Mike Chard		PHMSA	Rick Noecker	AKLNG Project
Amelia Samaras		PHMSA		
<b>DISCUSSION POINTS/ACTION ITEMS:</b>				
<u>Item</u>	<u>Discussion Points/Action Items</u>			<u>Lead</u>
1	Meeting Purpose: Review near final (Rev. I) version of SBD SP Conditions, Special Permit and FERC filing requirements, and plan for future meetings with PHMSA, FERC and other cooperating agencies			All
2	Introductions and Overview			All
4	SBD Special Permit Conditions <ul style="list-style-type: none"> <li>SN – API 1163 will be IBR into CFR 192 in the future</li> </ul>			AKLNG
5	Review Design Change Process			AKLNG
6	Special Permit Filing <ul style="list-style-type: none"> <li>Reviewed Alaska LNG's plan for incorporating these permits into FERC filing. Will be included as part of RR11</li> </ul>			AKLNG
7	Coordinate Future Meetings with FERC, PHMSA and other Cooperating Agencies			AKLNG




	MINUTES OF MEETING (MOM)	USAI-PS-BPDCC-00-000002-005 22-FEB-16 REVISION: 1A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	Feb 22 2016
<b>Meeting Subject</b>	Denali National Park & Preserve mainline routing alternatives	<b>Location</b>	Denali National Park and Preserve Office, Alaska

ATTENDEES			
Attended By	Organization	Attended By	Organization
Don Striker	DNPP	Ruben Medrano	Alaska LNG Project
Brooke Merrell	NPS	Luke Marodi	Alaska LNG Project
Steve Carwile	DNPP	Norman Scott	Alaska LNG Project
Dave Schirokauer	DNPP		
Miriam Valentine	DNPP		
Molly McKinley	DNPP		

AGENDA ITEMS		
Item	Agenda Item(s)	Leader
1	Alaska LNG Project overview of DNPP route alternatives	Alaska LNG Project
2	NPS overview of potential resource impacts/considerations	NPS
3	Site visit	All
4	Wrap-up and next steps	All

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	February 26, 2016
Sub-Project Name	Gas Pipeline	Location	Calais I, 3201 C St, Anchorage, AK 99503
Meeting Subject	Engage and align with ADOT&PF on Alaska LNG Project pipeline crossings with ADOT&PF highways; develop a roadmap for future technical engagements with ADOT&PF		

ATTENDEES			
Name	Organization	Name	Organization
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Luke Marodi	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization
Luke Marodi	Alaska LNG Project		

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 3, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Monthly Pre-Filing Conference Call with FERC		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Amira Streeter	Natural Resources Group (NRG)	James Martin	Federal Energy Regulatory Commission (FERC)
Bill Miller	Natural Resources Group (NRG)	Jennifer Lee	Natural Resources Group (NRG)
Caryn Rea	Alaska LNG Project	Karen Wuestenfeld	Alaska LNG Project
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Elizabeth Dolezal	Natural Resources Group (NRG)	Michael Nelson	Alaska LNG Project
Erika Herlugson	Alaska LNG Project	Ruben Medrano	Alaska LNG Project

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	March 15, 2016
Sub-Project Name	Gas Pipeline	Location	The Woodlands, TX
Meeting Subject	Review Crack Arrestor and Main Line Block Valve Special Permit analysis and discuss Strain-Based Design Design Change Process		

ATTENDEES			
Name	Organization	Name	Organization
Amelia Samaras	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Rick Noecker	Alaska LNG Project
Andrew Collard	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Mario Macia	Alaska LNG Project	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Michele Panico	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input type="checkbox"/> Meeting  <input checked="" type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG, Pipeline Sub-Project		
	<b>Meeting Subject:</b>	PHMSA Technical Engagement Meeting		
	<b>Date of Meeting:</b>	15 March 2016		
	<b>Number:</b>	USAP-PP-SAMOM-10-000022-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Steve Nanney (SN)		PHMSA	Rick Noecker (RN)	AKLNG
Rob Geisinger (RG)		PHMSA	Mario Macia (MM)	AKLNG
Mike Chard (MC)		PHMSA	Michele Panico (MP)	AKLNG
Bill Lowry (BL)		PHMSA	Andy Collard (AC)	AKLNG
			Tim Anderson (TA)	URC
			Xin Yue (XY)	URC
<b>DISCUSSION ITEMS:</b> (see USAP-PP-SAMOM-10-000021-001 for slide pack)				
	<b>Meeting Purpose:</b> Review Crack Arrestor and Main Line Block Valve Special Permit analysis, discuss submission of Environmental Information in FERC RRs, SBD Design Change Process and Full Scale Test Fractography			
Slide #	<b>Notes</b>			
1-4	<b><u>Introductions, Safety Moment and Overview</u></b> No comments			
5-9	<b><u>Full Scale Tension Test Fractography Results and Analysis</u></b> No comments			
10-11	<b><u>Environmental Information (EI)</u></b> RN: Would PHMSA prefer we provide the EI to PHMSA in parts (e.g. SBD at one time), or as we develop the sections? SN: send the entire document at one time.  SN: include crossings (e.g. TAPS crossings) in MLBV and CA spacing EI. Then include leak/rupture impacts on the infrastructure (e.g. VSM and supports). MP: APP found 200 ft separation distance was sufficient to avoid impact on TAPS and VSM, which is conservative compared to the Alaska LNG Mainline. Alaska LNG is performing a similar study with our pipeline design (smaller diameter and lower pressure than APP). SN: if we are on any of the bridges. RN: not on any bridges. SN: consider HCA, fault areas, slope instability – how we are monitoring using ILI – but mainly people, dwellings.  3rd bullet, ask: <ol style="list-style-type: none"> <li>1. RN: Any specific modifications PHMSA would like to see? SN: yes, include MLBV and CA spacing Conditions.</li> <li>2. RN: What do we call this Enclosure: Enclosure C? SN: can call the name something different. Enclosure B was based upon APP days.</li> <li>3. RN: What infrastructure along the route should we address? What information is required? (will see proximity plots later in presentation) SN: see above response</li> <li>4. What is the best way to address existing permanent infrastructure in our EI?</li> <li>5. Does the route information need to be repeated in each Enclosure: SBD, MLBV and CI? SN: include route information in one enclosure and refer back to it, but <b>check with FERC</b>.</li> </ol>			

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 15 March 2016

12-13	<p><b><u>Administrative Items</u></b></p> <p>SN: <b>Alaska LNG to provide agenda.</b> PHMSA would like to see what the MP designations are. <b>[RN to follow-up with SN on whether he is willing to present SBD SP Conditions ]</b>. SN still waiting to hear more about the Design Change Process from Amelia. May make it a Condition instead of an Appendix. SN has talked to Amelia about concept.</p> <p>SN: At meeting with FERC, would like Alaska LNG to go through how we are selecting SBD area, or not, and what we would perform during construction. Where have we taken samples, what have been the results, etc? Would hope that the ACOE and CRELL personnel (Kevin ?) out of Fairbanks (Mary Romero, Sandy Gibson with ACOE). PHMSA wants feedback from other agencies. SN: PHMSA ok with a staged approach – FERC/PHMSA prior to 2<sup>nd</sup> DRAFT of RRs, followed by other agencies after filing 2<sup>nd</sup> DRAFT.</p> <p>SN and RG: can meet at PHMSA offices in Anchorage. Have room for up to 30 people.</p> <p>SN: can set something up, but may need to change it. In Anchorage starting the 17/18 of April, can meet before the 20<sup>th</sup>.</p> <p>SN: no word on Offshore Cover RFI. Put in for SP if we do not have a response on RFI <b>[follow-up with Steve on this]</b>. PHMSA legal is looking at it. RG: agrees that it is Offshore and this is what other operators have done. RG: agree that it was good to file the Offshore Cover RFI.</p> <p>RN: Can PHMSA provide us with Kinder Morgan's recent SPA filing? SN: Kinder Morgan SPA that PHMSA suggests we follow is publically available. Docket number: regulations.gov PHMSA 2016-0004, -0006, -0007, -0008 (In Federal Register as well, comes in March 24).</p>
14-16	<p><b><u>SBD SP Conditions: Next Steps</u></b></p> <p>Discuss Design Change Process: Enclosure B</p> <ul style="list-style-type: none"><li>• added 1) b) v. "any required environmental reviews and permits"</li><li>• change of language in 3) would require "procedures including any additional special permit notices and environmental assessments"</li></ul> <p>SN: what would we do if strain was experienced in a non-SBD segment? MM: removing and replacing the pipe would be a last resort. Can use thermo siphons, dig up and relieve strain demand, etc.</p> <p>SN: what are we going to do in the continuous permafrost area? Other agencies are convinced there will be a water canal in this area. What do we see the effects of climate change as well? Doesn't this need to be included in SBD MPs as well? MM: multiple considerations with preparing the ROW to prevent what SN is describing. In continuous permafrost, if ice rich soil is dug up, then will likely need to bring in imported fill (e.g. gravel), so that it will not melt and cause a water trench. Part of Construction and Execution Plan. A bigger issue can be work pad for vehicles. MM: have also looked at how much imported fill will be required.</p> <p>SN: will Section 5 be inspected? RN: yes, but not using SBD SP O&amp;M conditions. MM: launchers and receivers are at compressor and heater stations. SN: other agencies will want the North Slope sections inspected for strain demand. AC: all launchers and receivers have the same design and can run the full suite of tools.</p> <p>SN: very close on the SBD Conditions.</p>

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 15 March 2016

17-27	<p><b><u>MLBV Spacing Special Permit</u></b></p> <p>Slide 20: Ask “Any issues with the proposed siting of MLBVs? RG: a MLBV at the Yukon river? AC: no, this is an HDD, that is about 1,000 ft in length.</p> <p>SN: difference with ASV vs. RCV? RN and AC: RCV has power and communication. Can be remotely closed, but not opened. Pressure detection upstream and downstream of valve. ASV uses only low pressure set point. SN: at MP 36.91, why not an RCV? AC: not easily powered. ASV are placed where there is poor access, or where there may be a future facility. At future build can change from ASV to RCV. Comply with CFR 192. SN: MP of Yukon river? AC: 357?</p> <p><b>SN: would like to have this information overlaid on map, with key highlights: e.g. Yukon river, Fairbanks, TAPS and its crossings, and how we selected these MLBV sites. 3-5 slides so that SN can send in internally within PHMSA.</b></p> <p>RG: what about the laterals? AC: we will have a sectionalizing valve at each lateral, but because we don't know where they will be sited, we don't have additional details. MM: not part of our basis, but we can look at this. SN: this is how SN installed these in years before.</p> <p>[Slide 22, what is pressure rate of change at MP 0 and 100? Is this higher than 6%?]</p> <p>BL: what happens if you use less than MAOP as your assumption? RN: good point, we will have to look at that in subsequent analyses.</p>
28-29	<p><b><u>Rupture and Thermal Radiation Analysis IPC16 Publication</u></b></p> <p>Does PHMSA take any exception to the approach presented on this slide? SN: no. Would be in our best interest if we can post it on the Internet. MM: <b>suggest we work to push the Copyright limit.</b></p> <p><b>RN to provide IPC16 paper to PHMSA</b></p>
30-44	<p><b><u>Crack Arrestor Spacing Special Permit</u></b></p> <p>SN: was the gas composition used in the determination of arrest energy? MP: yes, used project gas composition, Battelle two-curve method, and Leis correction factor. SN: did you use EMC<sup>2</sup> correction factor? MP: used Leis factor from Battelle, which is published and quite conservative. SN: in about 2007-2008 EMC<sup>2</sup> performed some research based on correction methodology based on grade and composition. MP: <b>will look more into this, but it is not likely to change the outcome of the fracture propagation analysis since there are no borderline cases.</b></p> <p>RN: how do we demonstrate low probability of rupture to FERC? SN: start with qualitative approach like we have already presented to PHMSA. Look at Kinder Morgan Rockies Express pipeline filings. About 1700-1900 psi range (also look at Alliance pipeline). Remembers 160-180 CVN values in their FERC submission.</p> <p>Slide 38: what are the bridges of concern to PHMSA? SN: who did we talk to at ADOT? Is it a person with sufficient authority that it wouldn't come back to. For example, what is the replacement time for the bridge? BL: also look at traffic volumes across these bridges. <b>RN to follow-up with ADOT.</b></p> <p>Slides 42-25 make sense, just add some additional commentary.</p>
45-48	<p><b><u>Proximity to other infrastructure</u></b></p> <p>No comments from PHMSA</p>

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 15 March 2016

49	<p><b><u>DNV GL Report out: next steps</u></b>  SN: need to see the final draft before deciding what to do next. <b>Would like to see a one or two page summary of what is required for future project phases.</b></p> <p>SN and MC: very good presentation.</p>
	<p><b><u>Post meeting</u></b>  SN: One thought is to pig the entire line using the SBD SP Conditions. RN: the entire line does meet AMAOP requirements for inspection. SN: ILI requirements are key. <b>Highlight that we are complying with these requirements – include this in FERC RR11 overview.</b> SN sending latest SBD SP Conditions to RN that he has sent to PHMSA Legal (Amelia Samaras).</p> <p>SN: what does BL think about multi-layer coating? BL think it is a good coating. SN and BL agree to wait on DNV GL report.</p> <p>BL: CP system – how do you isolate it to run surveys? RN shows 2<sup>nd</sup> DRAFT FERC RR 11, section 11.6.3 addresses CP System. BL: don't see the hybrid design a lot in the lower 48. RN: how long is the construction activity? SN: Condition in the SBD SP that covers this.</p> <p>SN: would like to see other PHMSA comments to the MLBV and CA spacing SP before moving forward. ILI is Steve's chief concern.</p> <p>SN: should we add anything in App. B to cover what personnel should be involved on the North Slope? Look at the SBD SP Conditions that Steve provided.</p> <p>SN: on the North Slope, need to provide more detail than MM provided – typical construction responses will not be sufficient to address this concern. RN: what is the specific area of concern with the first 30 miles or so? SN: this is what the other agency has identified (don't know why this length other than generally this is the area that doesn't recover). Do not need to meet with this other agency before filing the 2<sup>nd</sup> DRAFT of FERC RRs, but need to lay out the facts on how this will be designed. If we can, <b>provide additional details on the other pipelines designed for this region.</b></p> <p>RN: where do you think we are with coatings? SN: want to see DNV GL report first. Then circulate package w/in PHMSA.</p>

#### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1	Confirm EI approach with FERC: name of enclosures, route information in only one enclosure, infrastructure along route, low probability of rupture.	RN	Late April
2	Provide agenda for FERC/PHMSA meeting: include delineation of SBD SP MPs in discussion, along with overview of geotechnical program	RN	20 March
3	Follow-up with SN on 1) whether he is willing to present the SBD SP Conditions to FERC and 2) the Offshore Cover RFI vs. SP	RN	End of May
4	Create 3-5 slide summary for PHMSA on MLBV and CA spacing special permit conditions, to include map	RN	End of March
5	Provide PHMSA with IPC16 Thermal Radiation paper for internal PHMSA review.	RN	c/w
6	Pursue copyright freedom with IPC16 paper that will allow PHMSA to post it on their web-site.	RN	End of March
7	Confirm that Leis correction factor is the most appropriate to use for the mainline.	MP	End of March
8	Follow-up with ADOT regarding proximity to bridges and what is key bridge of concern.	RN	End of April



## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 15 March 2016

9	PHMSA would like DNV GL ITPR to include summary table of what is required for future Project phases	RN	c/w
10	Include statement in FERC RR11 that we are complying with Alternative MAOP Operations and Maintenance Requirements for the entire mainline, and other areas where we are meeting AMAOP requirements.	RN	End of April
11	Provide additional details on buried gas transmission lines constructed in continuous permafrost.	RN	End of April

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	March 16, 2016
<b>Sub-Project Name</b>	Marine Terminal	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Overview of sediment sampling scope for capital dredging at Nikiski		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Billy Oliver	Alaska LNG Project	Jennifer Murrell	Alaska Department of Natural Resources (ADNR)
Carrie Andrews		Mary Romero	United States Army Corps of Engineers (USACE)
Chris Meade	United States Environmental Protection Agency (EPA)	Pranav Mehta	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Sandy Gibson	United States Army Corps of Engineers (USACE)
James Rypkema	Alaska Department of Environmental Conservation (ADEC)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>


## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Presentation	Pranav Mehta described the scope of proposed dredging and dredged material disposal at the base case material offloading facility (MOF) and alternate MOF. Carrie Andrews described the sampling plan including scope, methods, and assignment of dredged material ranking.
2	Disposal site jurisdiction	Chris Meade asked for confirmation of whether the disposal site was located in CWA or MPRSA jurisdictional waters, thereby determining US Army Corps or EPA jurisdiction. Claire confirmed that the currently proposed dredge disposal location is CWA / Corps jurisdiction. The proposed disposal location is immediately west of Nikiski, north of the jurisdiction division.
3	Test Pit Sediment Characterization Results	Chris Meade asked about the results of the test pit site characterization (conducted by Alaska LNG Project in 4Q2015). Claire Joseph confirmed that the results would be provided as supporting information in the SAP for determination of dredged material ranking. Carrie Andrews noted that the justification for the dredged material ranking is described in the "Previous Investigation" section of the draft SAP. Chris said that although the test pit results would provide some information, that the distance between the test pit sampling sites and the capital dredge areas (Pranav confirmed ~1,000 ft for base case MOF and ~7,000 ft for alternate MOF) is large enough that the test pit data may not be considered "site specific" information.
4	Dispersion Modeling	Chris Meade asked whether there were plans for dispersion modeling at the dredge disposal area. Claire Joseph said that the Project plans to do dispersion modeling to support Section 404/10 permitting but not for the FERC Application/Resource Reports. There was no objection to this plan. Chris indicated that the dispersion analysis was used for the disposal site determination by the US Army Corps of Engineers.

5	Proposed Disposal Site	Chris Meade asked whether the Project had considered a disposal site located to the west of the existing site, in deeper water. Chris also inquired about the availability of site specific water current data. Pranav Mehta and Claire Joseph explained that this site was selected based on water depth, currents, and vessel traffic data. Additionally, Billy Oliver pointed out that the disposal site needs to be within a reasonable distance of the dredged area or the operation has the potential to increase vessel traffic and interactions with other vessel activity. Chris Meade said he would be interested in seeing the vessel traffic (AIS) data to understand why the Project team is not proposing to move the disposal site further west into even deeper water. Pranav Mehta noted the availability of current data from seabed frames in the vicinity, but that no data was available in the disposal target area footprint. He also noted the use of the project's (fairly sophisticated) current model to guide selection of the location.
6	Upland Placement	Jim Rypkema asked whether the Project considered upland placement of dredged material. Claire Joseph explained that upland placement was considered, however the large land area which would be required to accommodate the material, the fact that the dredge material is marine sediment coupled with the use of groundwater by others in the area, and the logistics and cost associated with upland placement were factors leading to it being eliminated from consideration as the "preferred alternative." Claire Joseph said that information on dredging methods and disposal alternatives will be included in the Resource Reports.
7	Persistence of Contaminated Sediments	Billy Oliver asked the group whether there were any examples in Cook Inlet where dredged contaminated sediments have been known and/or documented to be persistent over time. No known circumstances were raised in the meeting. It was discussed that there might be information available from the Cook Inlet Navigation Channel dredging conducted by the Corps of Engineers for the Port of Anchorage. Sandy Gibson said she would check whether information might be available on this subject.
8	References used for permitting	Chris Meade asked for confirmation of the references that the Project was using for development of the SAP and dredging planning. Carrie Andrews confirmed that the Project was using the US Army Corps Users' Manual (Dredge Material Management Program's Dredge Material Evaluation and Disposal Procedures) and the EPA/Corps Inland Testing Manual (Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. Testing Manual).
9	Next Steps	Claire Joseph said that the Project plans to transmit the Draft SAP to agency representatives the week of 3/21 and would please request response back from the agencies during the week of 4/4. Claire said that the Project planned to begin data collection around 4/18. Chris Meade said that receipt of the test pit site characterization report as soon as possible would support his analysis of the dredged material ranking, which would be necessary to finalize the SAP.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAI-PS-BPDCC-00-000002-005 JUNE 28 2016 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline Team Meeting with FERC	<b>Date of Meeting</b>	March 24, 2016
<b>Meeting Subject</b>	Geotechnical & Geophysical Work Plans	<b>Location</b>	Anchorage, AK

ATTENDEES			
Attended By	Organization	Attended By	Organization
James Glaze	FERC	Michael Zhang	Alaska LNG
Bob Bachman	FERC	Norm Scott	Alaska LNG
Elena Antonakos	Alaska LNG	Bob Albrecht	Alaska LNG

DISTRIBUTION (ALASKA LNG Attendees only)			
Name	Organization	Name	Organization

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions	All	
2	SSH&E Moment	Bob Albrecht	
3	2015 Summary of Geotechnical Activities	Bob Albrecht	
3	2016 Geotechnical Activities Planned and In Progress	Bob Albrecht	
4	Possible Summer, 2016 FERC field visit	All	
5	Discussion and Follow-up	All	

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 31, 2016
<b>Sub-Project Name</b>	Marine Terminal, Gas Pipeline	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	2016 IHA schedule update		

## ATTENDEES

Name	Organization	Name	Organization
Billy Oliver	Alaska LNG Project	Judy Jacobs	National Marine Fisheries Service (NMFS)
Claire Joseph	Alaska LNG Project	Sara Young	National Marine Fisheries Service (NMFS)

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	2015/2016 IHA	Sara Young said that NMFS General Counsel have reviewed the memo that would be added to the administrative record regarding use of passive acoustic monitoring for conducting vibracoring in darkness to enable work under 2015/2016 IHA. Sara Young will be meeting with Jolie Harrison tomorrow (4/1/16) to determine whether or not they would put a memo to the record, or process a minor amendment to the 2015/2016 IHA. The amendment to the IHA is not typical. Either option (memo to record or minor amendment to IHA) would not require a public comment period. Sara Young expects documentation to be available to provide to EMALL early to mid next week (Tuesday or Wednesday). The group discussed that the vibracoring work could still be conducted under the 2015/2016 IHA, just not in darkness with PAM.
2	NWP6 Verification update for revised BiOp/ITS for 2015/2016 IHA	Claire Joseph asked Judy Jacobs whether the NWP6 verification from 2015 should be updated to incorporate the revised BiOp. Claire mentioned that Mary Romero issued a revised NWP6 since the BiOp/ITS requirements were added to the NWP6 verification as specific requirements (i.e. added as body text rather than just referenced). Judy Jacobs said she'd check with Sandy Gibson regarding issuance of a revised NWP6 verification.
3	2016 IHA and Section 7 ESA Consultation	Claire explained the reason that EMALL provided updated Project description information: it was to more accurately reflect the new planned scope of work (which is same equipment, survey areas, and timing as originally proposed, just a reduced total scope). Sara Young said that it will take more time to update the 2016 IHA since the scope has been reduced. Sara Young said that indeed the reduced scope would make the 2016 IHA less controversial. Claire Joseph asked whether it would be possible to obtain the 2016 IHA by end of April 2016 to enable vibracoring to begin in May. Sara Young said that she thought that would be possible. Sara Young said that since the 2016 IHA will not include takes for vibracores and since the 2016 IHA will replace the 2015/2016 IHA as soon as it is issued, that EMALL will be able to continue vibracoring (those activities just won't be covered under the 2016 IHA). Judy Jacobs said that she is currently working on updating take estimations, and that it may be that the Section 7 ESA consultation results in a Not Likely to Adversely Affect (NLAA), in which case NMFS-PR1 would communicate that to NMFS-AKR, and NMFS-AKR would issue a letter of concurrence (therefore no BiOp required).
4	Passive Acoustic Monitoring - equipment and procedures	Sara Young and Judy Jacobs each acknowledged receipt of the PAM equipment and procedures. They provided the information to their acoustical experts and will provide responses back to EMALL. Initial feedback suggested that the equipment should be farther away from the vessel. Billy Oliver said he'd communicate that back to the team. Judy Jacobs said that she would follow-up with the acoustical experts to ensure that they understand that the purpose of the PAM for this particular scope of work (i.e. not to detect belugas during vibracore operations, but rather than before and after). Sara Young mentioned that one person had suggested hydrophones on a buoy, however Billy Oliver mentioned that the concern about managing the buoy in the tides and currents.

5	Subsistence Information	Claire Joseph said she would provide summaries of subsistence conversations with Kenaitze, Salamatof, and Tyonek native groups and the community of Beluga. Sara Young requested dates and a summary of the topics discussed.
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 31, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Monthly Pre-Filing Conference Call with FERC		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Amira Streeter	Natural Resources Group (NRG)	Karen Wuestenfeld	Alaska LNG Project
Caryn Rea	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Michael Nelson	Alaska LNG Project
Erika Herlugson	Alaska LNG Project	Mike Timpson	Natural Resources Group (NRG)
James Martin	Federal Energy Regulatory Commission (FERC)	Philip Brinkmann	Alaska LNG Project
Jennifer Lee	Natural Resources Group (NRG)	Ruben Medrano	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG, Pipeline Sub-Project		
	<b>Meeting Subject:</b>	PHMSA-ADOT&PF Technical Engagement Meeting		
	<b>Date of Meeting:</b>	1 April 2016		
<input checked="" type="checkbox"/> Telephone	<b>Number:</b>	USAP-PP-SAMOM-10-000023-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Rob Guisinger (RG)		PHMSA	Rick Noecker (RN)	AKLNG
Mike Chard (MC)		PHMSA	Patrick McAlister (PM)	AKLNG
Jennifer Owens (JO)		PHMSA	Michele Panico (MP)	AKLNG
David Bloom (DB)		ADOT&PF	Andy Collard (AC)	AKLNG
Richard Pratt (RP)		ADOT&PF	Luke Marodi (LM)	AKLNG
Elmer Marx (EM)		ADOT&PF	Norm Scott (NS)	AKLNG
Janelle White (JW)		ADOT&PF	Jeff Raun (JR)	AKLNG
<b>DISCUSSION ITEMS:</b> (see USAP-PP-SAMOM-10-000023-001 for slide pack)				
	<b>Meeting Purpose:</b> Review PHMSA SP Process and updated Mainline Design, incorporating potential Special Permits, with Alaska DOT and PF.			
Slide #	<b>Notes</b>			
1-5	<b><u>Introductions, Safety Moment and Overview</u></b> No comments			
6-9	<b><u>Summary of Previous ADOT&amp;PF Discussions and Purpose for this Meeting</u></b> No comments			
10-13	<b><u>CFR 192 Requirements for Transportation Infrastructure</u></b> ADOT&PF drew comparisons between allowable stress design and strain-based design for bridges that are analogous to ASD and SBD for pipelines. RN explains that ASD is for pressure containment, and is always present, while SBD is for axial loads that may or may not occur. The other difference is that ASD utilizes a fraction of the specified minimum yield stress (ADOT&PF commented that this is analogous to nominal strength for bridges), while SBD utilizes a fraction of strain, which is limited to a maximum of 2% per the SBD Special Permit.  ADOT&PF also asked about the type of API 5L pipe and how we ensured sufficient ductility with X70 and X80, noting that they have experience with X52, and are aware of the general inverse correlation between strength and ductility/toughness. RN and MP noted that we are using API 5L PSL2 for all line pipe, but that the SBD line pipe would have additional requirements for ductility. 20 Full Scale Tests performed during pre-FEED highlighted that there was significant stain capacity using this type of line pipe. All line pipe, including conventional line pipe, would be procured using a Project Specification with more stringent requirements than API 5L PSL2.  ADOT&PF asked about unfactored loads and design factor. AC outlined that design factor limits the pipeline's MAOP to a lower fraction of the pipe's minimum yield strength; therefore a low design factor results in thicker wall pipe.			



## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 1 April 2016

14-17	<p><b><u>Thermal Radiation Study</u></b></p> <p>ADOT&amp;PF asked with the main line block valve spacing is 20 miles in CFR 192 for Class 1 locations. RG stated that he wasn't sure of the history. RN provided background on how CFR 192 was derived from a late 1960s version of ASME B 31.8. The 2014 Editions of ASME B31.8 requires that an engineering assessment be performed to determine the spacing between valves, which we have performed for our Mainline. However, in lieu of such a study, B 31.8 (2014) does default to the same valve spacings that are in CFR 192.179.</p> <p>Slide 17: EM: why is the dosage so similar with the 20 and 50 miles spacing when there appears to be a significant difference in the total outflow results for these two spacings? Is dosage more directly related to area under the total outflow curve? AC outlined how dosage is a multi-dimension factor accounting for time, and heat flux as a given position; which are in turn impacted by outflow rates as well. Brief answer to EM's question was: despite a given area being exposed to larger heat fluxes for a time period in the 50 mile spacing case, the predominant amount of heat released from a rupture is done so in the time frame when all spacing options behave identically, and therefore the additional heat flux accumulated for the longer spacing case is marginal. Additionally noting the marginal additional heat is more present immediately adjacent the pipeline.</p>
18-23	<p><b><u>Results of Proximity Analysis</u></b></p> <p>EM: Is there any other state or code that defines proximity criteria for bridges that would provide guidelines on thermal radiation, or dosage limits? RN: we have not been able to find any such guidelines for bridges in the CFR. We have also inquired of our Risk/Loss Prevention professionals and they are not aware of any such defined limits. We have also talked to PHMSA about this matter, and they recommended we speak to ADOT&amp;PF. Is ADOT&amp;PF aware of any such limits? ADOT&amp;PF: no.</p> <p>ADOT&amp;PF note that the Dalton and Parks highways are not practically redundant – meaning there are no practical alternate routes should a major bridge be damaged, or become unusable. EM highlights that there are certain bridges that would be more susceptible to thermal radiation: e.g. glued laminated timber bridges and truss bridges. He notes that Nenana River at Moody Bridge is steel truss, and would be difficult to replace given its size and location [891 ft long]. He notes that we have a pipeline aerial crossing that is within 238 ft of this bridge.</p> <p>The discussion explores options for reducing consequence when in proximity of bridges – e.g. building a berm. RN highlights that the vast majority of our river crossings that are within a PIR proximity of a bridge are buried, only three are aerial crossings on a bridge whose sole use is supporting the pipeline. AC provides details on our river crossing methods: the vast majority of the crossings will be open cut, horizontal bore or HDD, in which the pipeline is buried. RN notes that Risk = Probability x Consequence. The consequence (thermal radiation and dosage) is related to distance, however, in several key areas (e.g. Nenana Canyon) the pipeline route is constrained by geography, therefore we take measures in the pipeline design to reduce probability of rupture: e.g. more robust pipe with lower grade and thicker wall, placing the pipeline on its own bridge, as opposed to co-locating on a roadway bridge (e.g. TAPS and the proposal for the ASAP pipeline).</p> <p>EM: could a firearm cause a rupture? RN: testing performed by ExxonMobil has shown that 0.5" thick grade X65 pipe is sufficient to prevent penetration of typical hunting firearm cartridges used in Alaska. However, even if the pipeline were punctured, it would result in a leak, not a rupture. The critical length to cause a rupture is &gt;5 inches (see Fracture Control results on Slides 12 and 13.)</p>

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 1 April 2016

24-25	<b><u>Discussion</u></b> EM: seems we are saying that bridge damage is the same whether we follow CFR 192 or grant the Special Permit. RN: correct.  DB: appears that the best solution would be to move the pipeline away from the bridges, but likely may not be possible in some areas (e.g. due to terrain).  <b>ADOT&amp;PF commits to providing a list of prioritized bridges of concern within two weeks (15 April) to RN, JR and PHMSA.</b> ADOT&PF did not have any further suggestions on what mitigation measures (Conditions) to be taken when in proximity to bridges. They deferred to PHMSA.  RN to <b>follow-up with PHMSA when in Anchorage (18 and 19 April) to further progress MLBV and CA Spacing SP Conditions.</b>
	<b><u>Closing and Back-up</u></b> No comments

#### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1	ADOT&PF commits to providing a list of prioritized bridges of concern within two weeks (15 March) to RN, JR and PHMSA	EM	15 April
2	Follow-up with PHMSA when in Anchorage (18 and 19 April) to further progress MLBV And CA Spacing SP Conditions	RN	19 April



## MINUTES OF MEETING (MOM)

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01-Nov-16  
REVISION: FINAL  
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## MEETING DETAILS

Meeting Type	Meeting/Workshop	Date of Meeting	April 4, 2016
Sub-Project Name		Location	3651 Penland Pkwy, Anchorage, AK 99508
Meeting Subject	To discuss the FY 17 MOU Reimbursable Services Agreement Work Plan and provide a project update on schedule and agency engagement.		

## ATTENDEES

Name	Organization	Name	Organization
Jason Walsh	Alaska Department of Natural Resources (ADNR)	Mark Morones	Alaska Department of Natural Resources (ADNR)
Jennifer Dupont	Alaska LNG Project	Philip Brinkmann	Alaska LNG Project
Jennifer Murrell	Alaska Department of Natural Resources (ADNR)	Ruben Medrano	Alaska LNG Project
Julie McKim	Alaska LNG Project	Sandra Barnett	Alaska LNG Project

## DISTRIBUTION


Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	PROPOSED 2016 AQUIFER PUMP TEST PROGRAM (NIKISKI)	19-AUG-2016 REVISION: C
	CONFIDENTIAL	PAGE 1 OF 3

MEETING DETAILS			
<b>Sub-Project Name</b>	2016 Aquifer Pump Test (APT)	<b>Date of Meeting</b>	8-April-2016
<b>Meeting Subject</b>	Pre-application Meeting	<b>Location</b>	Alaska LNG Office, Calais I Building


ATTENDEES			
Attended By	Organization	Attended By	Organization
Jeff Raun	Alaska LNG Project	Billy Oliver	Alaska LNG Project
Cecile Davis	exp	Patrick Wong	Alaska LNG Project
Melissa Hill	ADNR/DMLW	Dave Sadoff	Fugro
Henry Brooks	ADNR-DMLW	Jeriann Alexander	Fugro
Gerry Brown	ADEC	Wayne Westberg	M-W Drilling
Jennifer Murrell	ADNR-SPCS		

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions	Jeff Raun	
2	Safety Moment	Jeff Raun	
3	Aquifer Pump Test (APT) Program Information	Oliver/Alexander/Raun	
4	Hydrology/Permitting/Regulatory Discussion	Jeff Raun	
5	Next Steps	Jeff Raun	

DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
1	Introductions	
2	Safety Moment – Legionnaires Disease, which can be transmitted through water cooling systems and evaporative condensers	

# DISCUSSION

Item	Agenda Item(s) / Notes	Comments
3 & 4	<p>The APT Program Information was presented by Jeff Raun and Billy Oliver.</p> <p>Jennifer Murrell asked that during water quality testing that arsenic is captured. Billy verified that arsenic will be one of the parameters captured in the water quality study.</p> <p>Melissa Hill asked if there was a plan to convert any of the APT wells into permanent wells. The team explained that at this point in time it was not the intent.</p> <p>Melissa Hill commented that keeping APT wells and observation wells in place allows monitoring of the influence of both APT tests. She indicated that there is known interconnection between the first two aquifers. She further indicated that others have found that short duration and laterally limited pump tests have not provided sufficient project information regarding potential influence due to pumping. Billy welcomed the comments and also added that this was one of the reasons that wells in the first and second aquifers would be monitored simultaneously during both pumping tests. Billy further indicated that we were also aware of the interconnected nature of the aquifers and would be conducting pumping from two wells at the same time to aid in assessing impacts due to drawdown.</p> <p>Gerry Brown inquired about the infiltration capacity of the quarry. Jeriann Alexander explained that several borings were drilled in the vicinity of the quarry and that geotechnical data has been acquired. Additionally there is operational input from the previous quarry owner indicating ponding did not occur during quarry operations. Gerry agreed that new infiltration tests at the quarry would not be necessary if capacity is demonstrated and suggested supplying the existing information for plan review.</p> <p>Gerry also asked that the Project identify the wetland on the northeast side of the quarry and provide information to show that in the unlikely case the discharge in the quarry overflows, the discharged water would not go back into the wetland. He asked that the Project provide contour lines of the project area within a 0.5-mile radius of the aquifer pump testing.</p> <p>Henry Brooks and Gerry Brown recommended that the Project seek approval for an overestimate of water usage to avoid having to amend the permit should circumstances change in the field; exceeding the authorized water usage volume would require permit modification.</p> <p>Henry Brooks indicated that TWUA's are limited to Agency review only unless there is a specific request for public review. Henry asked for feedback if there are specific information requests at the upcoming community coffee session in Kenai.</p> <p>Henry Brooks requested information from the Project team about what lands Alaska LNG LLC has acquired in the area so that he can align his TWUA review with existing rights holders.</p> <p>Melissa Hill expressed interest in the wells after the APT is complete and explained ADNR plans to seek additional funding from the U.S. Geologic Survey to maintain wells. Jeff recognized this as an opportunity and explained that he would discuss with the appropriate people on the Project team.</p>	

	AGENDA & MINUTES OF MEETING	08-APR-2016
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	April 8, 2016
<b>Meeting Subject</b>	Alaska LNG Project Plan of Development (POD) – Pre-Application Workshop with U.S. Department of the Interior – Bureau of Land Management	<b>Location</b>	Fairbanks, Alaska
<b>Teleconference Number:</b> +1-888-272-5498; Access code: 5531146			

ATTENDEES			
Attended By	Organization	Attended By	Organization
Bill Hedman ✓	US Dept. of the Interior - Bureau of Land Management – Alaska; Central Yukon Field Office	Philip Brinkmann ✓	Alaska LNG Project
Robin Walthour ✓	US Dept. of the Interior - Bureau of Land Management – Alaska; Central Yukon Field Office	Matthew Horneman ✓	Alaska LNG Project
Brenda Becker ✓	US Dept. of the Interior - Bureau of Land Management – Alaska; Glennallen Field Office	Julie McKim (phone) ✓	Alaska LNG Project
Dave Mushovic	US Dept. of the Interior - Bureau of Land Management – Alaska	Jon Schmidt ✓	exp Energy Services - Consultant to Alaska LNG Project
Earle Williams ✓	US Dept. of the Interior - Bureau of Land Management – Alaska; Natural Gas Pipeline Project Manager	David Sinclair ✓	Paragon Partners - Consultant to Alaska LNG Project
Tim Hammond ✓	US Dept. of the Interior - Bureau of Land Management – Alaska; Central Yukon Field Office	Norm Scott (phone) ✓	Alaska LNG Project
Sandra Barnett ✓	Alaska LNG Project	Claire Joseph ✓	Alaska LNG Project
Ruben Medrano ✓	Alaska LNG Project	Angie Wagner (phone) ✓	exp Energy Services - Consultant to Alaska LNG Project

PLANNED AGENDA ITEMS				
Item	Agenda Item(s)	Leader	Duration	Time (AKST)
1	Introductions & SSHE (HSE) moment	All	10 min	0900-0910
2	Project overview and update	Ruben Medrano	15 min	0910-0925
3	Overview of planned Project area on BLM-managed lands: walk-through of pipeline map books	Jon Schmidt & David Sinclair	45 min	0925-1010
4	Break	All	10 min	1010-1020
5	BLM permit/authorization requirements	Claire Joseph & Jon Schmidt	75 min	1020-1135
6	Next steps	Claire Joseph	25 min	1135-1200


MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	April 14, 2016
Sub-Project Name	Integrated (All Segments)	Location	222 W 7th Ave, Anchorage, AK 99513
Meeting Subject	Clarification on Plans & Procedures Approach, Wetland Mapping Validation, TK/Subsistence Response & Permitting approach for other Federal Authorizations		

ATTENDEES			
Name	Organization	Name	Organization
Caryn Rea	Alaska LNG Project	Mark Jennings	Alaska LNG Project
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Mary Romero	United States Army Corps of Engineers (USACE)
Elizabeth Dolezal	Natural Resources Group (NRG)	Michael Nelson	Alaska LNG Project
Jack Everts	Alaska LNG Project	Michiel Holley	exp Energy Services
James Martin	Federal Energy Regulatory Commission (FERC)	Mike Boyle	Ecology & Environment
Jennifer Lee	Natural Resources Group (NRG)	Mike Timpson	Natural Resources Group (NRG)
Julie McKim	Alaska LNG Project	Philip Brinkmann	Alaska LNG Project
Julio Daneri	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Karen Wuestenfeld	Alaska LNG Project	Sandy Gibson	United States Army Corps of Engineers (USACE)

DISTRIBUTION			
Name	Organization	Name	Organization
Alaska LNG Project Attendees			

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING	DCN HERE 14-APR-16 REVISION: A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	April 14, 2016
<b>Meeting Subject</b>	National Park Service Meeting to Discuss with FERC and US Army Corps the Alaska LNG Project and ASAP Pipeline Alignments through Denali National Park & Preserve	<b>Location</b>	Anchorage, Alaska

ATTENDEES			
Attended By	Organization	Attended By	Organization
Brooke Merrell	U.S. National Park Service (USNPS)	Mike Timpson	NRG/ERM for FERC
Miriam Valentine	U.S. National Park Service (USNPS)	Philip Brinkmann	Alaska LNG Project
Michael Downs	U.S. National Park Service (USNPS)	Claire Joseph	Alaska LNG Project
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Luke Marodi (on phone)	Alaska LNG Project
Jim Martin	Federal Energy Regulatory Commission (FERC)	Julio Daneri (on phone)	Alaska LNG Project
Sandy Gibson	US Army Corps of Engineers (USACE) – Alaska District	Jack Everts (on phone)	Alaska LNG Project
Mary Romero	US Army Corps of Engineers (USACE) – Alaska District	Frank Richards	Alaska Gasline Development Corporation (AGDC)
Kate Johnson	NRG/ERM for FERC	Mike Thompson	Alaska Gasline Development Corporation (AGDC)
Jennifer Lee	NRG/ERM for FERC	Scott Lust	CH2M for Alaska Gasline Development Corporation (AGDC)

DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
1	Meeting Purpose	-
2	Background / History of DNP&P Routing	-
3	<ul style="list-style-type: none"> <li>AGDC Clarifications</li> </ul>	-
4	Denali National Park Improvement Act & pipeline routing criteria	-
5	NEPA process alternatives and NOI	-
6	NPS trail planning	-
7	Pipeline routing optimizations through DNPP	-
8	Joint NOI or Public Notice for ASAP and Alaska LNG	-
9	Adjourn and next steps	-

Attachments: None



## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	April 14, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Project area revision for BLM land status review		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Claire Joseph	Alaska LNG Project	Earle Williams	BLM, Alaska State Office

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Rev B or Rev C pipeline route for land status review	Claire called Earle Williams to inquire whether he would prefer to have access to Rev B project area data to begin a land status review (therefore needing to update the review once Rev C is available), or wait for Rev C project data to be available instead and do the land status review only once? Claire Joseph explained that the Rev C route may come available to BLM at the same time that the Resource Reports are published, which could be confusing to staff who are looking at two different versions of the Project area. Earle said that he would prefer that his staff only do a land status review once, if that can be accomplished. He said he thought that the Rev B vs. Rev C confusion can be managed, and that as soon as we're ready to provide the most final footprint (i.e. Rev C), then we can please transmit that to them and they'll pull land title/plats for that.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	April 14, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	222 W 7th Ave, Anchorage, AK 99513
<b>Meeting Subject</b>	Obtain alignment with FERC on: 1. Plans & Procedures; 2. Wetland Mapping Methodology; 3. TK/Subsistence Response; 4. Federal Authorization Submittals with Application		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andrea Thornton	Natural Resources Group (NRG)	Julie McKim	Alaska LNG Project
Bill Miller	Natural Resources Group (NRG)	Julio Daneri	Alaska LNG Project
Caryn Rea	Alaska LNG Project	Karen Wuestenfeld	Alaska LNG Project
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Mark Jennings	Alaska LNG Project
Erika Herlugson	Alaska LNG Project	Michael Nelson	Alaska LNG Project
Jack Everts	Alaska LNG Project	Mike Boyle	Ecology & Environment
James Martin	Federal Energy Regulatory Commission (FERC)	Philip Brinkmann	Alaska LNG Project
Jennifer Lee	Natural Resources Group (NRG)	Sandra Barnett	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG, Pipeline Sub-Project
	<b>Meeting Subject:</b>	PHMSA-FERC Technical Engagement Meeting
	<b>Date of Meeting:</b>	19 April 2016
<input checked="" type="checkbox"/> Telephone	<b>Number:</b>	USAP-PP-SAMOM-10-000024-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Rob Guisinger (RG) x tel	PHMSA	Rick Noecker (RN) in person	AKLNG Project
Mike Chard (MC) in person	PHMSA	Patrick McAlister (PM) x tel	AKLNG Project
Jennifer Owens (JO) x tel	PHMSA	Michele Panico (MP) x tel	AKLNG Project
Amelia Samaris (AS) x tel	PHMSA	Andy Collard (AC) x tel	AKLNG Project
Steve Nanney (SN) in person	PHMSA	Luke Marodi (LM) x tel	AKLNG Project
Jim Martin (JM) x tel	FERC	Julio Daneri (JD) x tel	AKLNG Project
Gertrude Johnson (GJ) x tel	FERC	Jack Everts (JE) x tel	AKLNG Project
Maggie Suter (MS) x tel	FERC	Sandra Barnett (SB) in person	AKLNG Project
Danny Laffoon (DL) x tel	FERC	Bob Albrecht (BA) x tel	AKLNG Project
Elizabeth Dolezal (ED) x tel	NRG for FERC		
Bill Miller (BM) x tel	NRG for FERC	Mark Morones (MM) x tel	ADNR (OPMP)
Louis Kozisek (LK) in person	ADNR in person	Jason Walsh (JW) x tel	SPCS

### DISCUSSION ITEMS: (see USAP-PP-SAMOM-10-000024-001, -002 for slide packs)

	<b>Meeting Purpose:</b> Review PHMSA SPs and their incorporation into the 2 <sup>nd</sup> DRAFT of the FERC Resource Reports.
Slide #	<b>Notes</b>
1-5	<u><b>Introductions, Safety Moment and Overview</b></u>
6	<u><b>PHMSA Special Permit Process - Steve Nanney presenting</b></u>
7-11	<u><b>SP Overview and Incorporation into 2<sup>nd</sup> DRAFT of FERC RRs – Rick Noecker presenter</b></u>
13-17	<u><b>SBD SP Overview RN presenter</b></u>
18-23	<u><b>SBD Pre-FEED Full Scale Test Program</b></u>
24-42	<u><b>SBD Mile Post Determination Bob Albrecht and Patrick McAlister Presenters</b></u>
43-49	<u><b>MLBV and CA Spacing SP Overview RN presenting</b></u>
50-61	<u><b>Proximity Analysis and Possible MLBV and CA Spacing SP Conditions RN presenting</b></u>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	April 26, 2016
<b>Sub-Project Name</b>	LNG Plant, Gas Treatment Plant	<b>Location</b>	Midtown, Anchorage, AK
<b>Meeting Subject</b>	Communicate critical elements of Alaska LNG air modeling		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Alan Schuler	Alaska Department of Environmental Conservation (ADEC)	Jennifer Murrell	Alaska Department of Natural Resources (ADNR)
Bart Leininger	Ashworth Leininger Group	Jim Pfeiffer	Alaska LNG Project
Brian Hoefler	SLR International Corporation	Jon Schmidt	exp Energy Services
Chris Humphrey	exp Energy Services	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Dave Bray	United States Environmental Protection Agency (EPA)	Mark Jen	United States Environmental Protection Agency (EPA)
Gertrude Johnson		Mark Morones	Alaska Department of Natural Resources (ADNR)
Harry Jeudy	Federal Energy Regulatory Commission (FERC)	Norm Scott	Alaska LNG Project
James Renovatio	Alaska Department of Environmental Conservation (ADEC)	Tom Damiana	AECOM

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Alaska LNG Provides Update to FERC and Federal Land Managers Regarding Approach to Air Quality Modeling	-Alaska LNG (Project) provided project overview and status of information submittals -Focus is on GTP and LNG modeling protocols -Current NOx control is lean pre-mixed combustion -Ozone impacts to be addressed semi-quantitatively, not based on photochemical grid modeling -Timing for PSD permit application is currently 1Q2018 -FERC indicated cumulative impacts need not always be based on quantitative analysis -Meteorological and ambient air data sets were discussed -Park Service offered technical expertise to assist in using PLUVIEW model -Scope of modeling for marine emissions was discussed -Construction emissions were discussed

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	April 26, 2016
<b>Sub-Project Name</b>	Integrated (All Segments), Gas Pipeline	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Demo and discussion on Project regulatory agency GIS web mapper capability/functionality		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Bill Hedman	Bureau of Land Management (BLM)	Earle Williams	BLM, Alaska State Office
Claire Joseph	Alaska LNG Project	Jason Knier	exp Energy Services
Cory Black	Bureau of Land Management (BLM)	Robin Walthour	Bureau of Land Management (BLM)

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Web Mapper Overview	Jason Knier provided a web mapper overview and demonstration to meeting participants. Several action items were flagged for follow-up by exp regarding agency/user access to different features of the web mapper.
2	BLM access to Project data	The group discussed options for BLM access to Project data for purposes of land status review, Resource Reports, and permitting. BLM would prefer to have Project data loaded or accessible in their own BLM internal GIS system. The group discussed 3 general options to do this: (1) transmittal of shape files from Project to BLM outside of web mapper; (2) addition of a data download page on the Project's agency web mapper site which would allow download of Project shape files by BLM staff with access to web mapper; or (3) BLM streaming of Project data directly to their GIS software/system. BLM staff indicated that the third option would be most preferable so that that the BLM would have the most up-to-date Project data and also so that there would not be outdated files on the BLM system. The group discussed that the same level of security currently applied for web mapper could be applied for this third option. Claire said that she would follow up with the Project to first seek approval to transfer this data to BLM, then initiate a more detailed discussion with the GIS technical team in each organization (Project and BLM) and finally consider which other agencies might need this information for their own work activities.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	27-APR-16 REVISION: 1A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Alaska LNG Project	<b>Date of Meeting</b>	April 27, 2016
<b>Meeting Subject</b>	ADEC Statewide Oil and Gas Pipeline APDES General Permit Stakeholder Engagement Meeting	<b>Location</b>	ADEC Office, Anchorage, Alaska

ATTENDEES			
Attended By	Organization	Attended By	Organization
Wade Strickland	ADEC	Norm Scott	Alaska LNG
Katrina Chambon	ADEC	Caryn Rea	Alaska LNG
Gerry Brown	ADEC	Julie McKim	Alaska LNG
Jennifer Murrell	ADNR-SPCS		
Jamie Grant	ADEC		

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Overview of General Permit	Gerry Brown	

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date


DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
1	Overview of General Permit and purpose	Discussed background for General Permit
2	Hybrid approach using discharge and disposal approvals	ADEC explained the difference between discharges to water and disposal to land. Each require different review processes, including Plan Reviews.
3	BMP Toolkit	BMP Toolkits will be developed by applicants and provided to ADEC for approval if appropriate.
4	Tiered approach for drilling fluids	Drilling fluids will be regulated based on a tiered approach including Type A, B, and C fluids.
5	Mixing zones for excavation dewatering and HDD inadvertent releases	These apply to open cut crossings. ADEC reviewed the mixing zone requirements and required information.
6	Other typical discharges and disposals	Discharges and disposals include gravel pit dewatering, hydrostatic test water, mobile spill response, and secondary containment.
7	Domestic wastewater discharges, including Plan Reviews	Plan Review Approvals are required before authorization under the GP.

	MINUTES OF MEETING (MOM)	27-APR-16 REVISION: 1A
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DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
8	Nondomestic Plan Reviews	Plan Review Approvals will be required for BMP Tool Kits for discharges and disposals.
9	Stormwater Discharges and Storm Water Pollution Prevention Plans and BMP Toolkit	Stormwater discharges can have an oil and gas exemption.
10	Notice of Intent and Authorizations	ADEC anticipates needing to issue long-term authorizations. Also, revisions are anticipated by segment and season so applicants will need to work with ADEC to ensure changes are communicated.

Attachments:

Powerpoint Slides titled Pipeline 3.27.2016pptx

	MINUTES OF MEETING (MOM)	27-APR-16 REVISION: 2
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MEETING DETAILS			
<b>Sub-Project Name</b>	Alaska LNG Project	<b>Date of Meeting</b>	April 27, 2016
<b>Meeting Subject</b>	MOM – Bald and Golden Eagle Protection Act Permitting	<b>Location</b>	USFWS Office, Anchorage, Alaska


ATTENDEES			
Attended By	Organization	Attended By	Organization
Jordan Muir	USFWS	Caryn Rea	Alaska LNG Project
Erin Knoll	USFWS	Julie McKim	Alaska LNG Project

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Meeting Objectives	C Rea	10:00-10:05
2	Overview of Alaska LNG Project	C Rea/J McKim	10:05-10:10
3	Identify Proposed Field Work for 2016 Summer Season	C Rea/J McKim	10:10-10:20
4	Review Alaska LNG Maps of Bald & Golden Eagle Nests <ul style="list-style-type: none"> <li>Availability of Raptor data collected in DNPP?</li> </ul>	C Rea	10:20-10:40
5	Process for BGEPA Permit	Jordan	10:40-10:55
6	Other Topics		10:55-11:00

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1	Resend webmapper login information to Jordan and Erin	C Rea	
2	Formal request for webmapper data files	Jordan/Erin	
3	Send and Review of previous Best Management Practices document	C Rea and Jordan/Erin	
4	Send raptor reports to Jordan and Erin	C Rea	
5	Updated permitting plan to Jordan/Erin for review	Julie	
6	Ask if the resource equivalency analysis document or guidance can be shared with Alaska LNG	Jordan	

DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
1	Overview of Alaska LNG Project including project facilities and schedule	
2	Proposed Field Work for 2016 Summer Season	




	MINUTES OF MEETING (MOM)	27-APR-16 REVISION: 2
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DISCUSSION		
Item	Agenda Item(s) / Notes	Comments
3	Alaska LNG Maps of Bald & Golden Eagle Nests	USFWS would like to be able to pull the data files from webmapper for the location of nests, distance, species, and coordinates.
4	Alaska LNG Maps of Bald & Golden Eagle Nests	USFWS has access to the NPS data for DNPP. USFWS can review the Resource Reports and our data to make sure we have everything we need. USFWS needs occupancy and productivity thresholds to help quantify what they can authorize and to determine the appropriate compensatory mitigation.
5	Alaska LNG Maps of Bald & Golden Eagle Nests	USFWS suggested that late June is the time to survey in the southern areas and late July for the northern areas.
6	Process for BGEPA Permit	Only takes for golden eagles or nests require compensatory mitigation. The compensatory mitigation must be quantifiable and scientifically supportable. Examples include power pole retrofits to meet the APLIC standards, road kill removal, and lead abatement. USFWS completes a resource equivalency analysis to determine compensatory mitigation requirements. For example, number of golden eagle takes equals number of power pole retrofits.
7	Process for BGEPA Permit	USFWS is currently allowed to authorize up to 550 bald eagle takes in Alaska. A ½-mile buffer is required for all blasting activities near bald eagle nests.
8	Process for BGEPA Permit	BGEPA permitting regulations are being revised. USFWS plans to eliminate language regarding “programmatic” permits. The regulations will require pre-construction and during construction monitoring. The regulations also could change the duration for permits to a shorter time period.
9	Process for BGEPA Permit	USFWS advised that the Project wait to submit an application until the end of 2016 once the regulations are promulgated. USFWS advised that a standard permit would be the most appropriate permit for the Project. With the application, a fee is required and a description of avoidance, minimization, mitigation standards, and why a take cannot be avoided.
10	Process for BGEPA Permit	Once an application is submitted, USFWS will review it and issue the required permits. Pre-construction surveys would occur in approximately April 2018. Because pre-construction surveys may show that nest locations, etc. have changed since the permit was originally issued, the Project would submit a request for a permit amendment. USFWS will issue the permit amendment and work can begin in approximately June 2019.
11	Process for BGEPA Permit	USFWS will participate in the NEPA process as a cooperating agency and comment on the Resource Reports and EIS. USFWS does not rely on the EIS for their NEPA documentation and will instead issue an Environmental Action Statement, which is the equivalent of a Categorical Exclusion, unless the permit is controversial.
12	Other Topics	USFWS asked about the Avian Protection Plan for the project. The document will be included as an appendix to RR3.

Attachments:

Slide Pack of Alaska LNG Project Overview (provided in 2016 Community Meetings)

Maps showing locations of bald and golden eagles identified within 0.25 miles of Project footprint

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 2, 2016
Sub-Project Name	Gas Pipeline	Location	Anchorage, AK
Meeting Subject	Discussion on DNPP Alternative with NPS and ADOT&PF (meeting organized by AGDC)		

ATTENDEES			
Name	Organization	Name	Organization
Brooke Merrell	United States National Park Service, Alaska Regional Office	Norm Scott	Alaska LNG Project
Cory Wilder		Robert Albrecht	Alaska LNG Project
Kalb Stevenson		Scott Lust	CH2M HILL
Luke Marodi	Alaska LNG Project	Steve Carwile	United States National Park Service, Alaska Regional Office
Mike Thompson	Alaska Gasline Development Corporation	Todd Bunnell	ExxonMobil
Miriam Valentine	United States Department of the Interior (USDOl)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 9, 2016
Sub-Project Name		Location	Anchorage, AK
Meeting Subject	West Dock Users Group - Summer Work Meeting		

ATTENDEES			
Name	Organization	Name	Organization
Chris Wrobel	exp Energy Services	Jennifer Dupont	Alaska LNG Project
Jayce Locke	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization


AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING FAIRBANKS PM 2.5 NON-ATTAINMENT CONFORMITY- 5-17-16	USAI-xx-xxxx-00-0000xx-00x 18-MAY-16 REVISION: A
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<b>Location:</b> ADEC- 555 Cordova St. Anchorage, AK	<b>Meeting Name:</b>	AKLNG/ADEC Air Quality Conformity Discussions	
	<b>Meeting Subject:</b>	Fairbanks PM 2.5 Non-Attainment Area Conformity Considerations	
	<b>Date of Meeting:</b>	5/17/2016	
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Jim Pfeiffer	Alaska LNG	Cindy Heil	Alaska DEC

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	SSHE Moment- Oxybusters and cold start plug-ins and vehicle I/M	Cindy Jim	10 min
2	Overview of Project elements of potential relevance to conformity: <ul style="list-style-type: none"> <li>No direct project activity within non-attainment area</li> <li>Pipeline spur construction determined/controlled by other parties</li> <li>Indirect activities associated with materials transport through Fairbanks Non-Attainment Area</li> <li>Possible pipeline concrete coating/milling facility- cement batch plant and pipe handling emissions</li> <li>Transport and coating/milling facility operated by contractors</li> </ul>	Jim	15 min
3	Two relevant aspects of conformity- 1) General and 2) Transportation <ul style="list-style-type: none"> <li>ADEC oversees General Conformity</li> <li>Transportation conformity- addressed by Fairbanks Metropolitan Area Transportation System (FMATS). Donna Gardino MPO Coordinator- <a href="mailto:donna.gardino@fmats.us">donna.gardino@fmats.us</a> 907-459-6786</li> </ul>	Cindy	10 min
4	General Conformity Considerations: <ul style="list-style-type: none"> <li>Lots of opportunity for public participation</li> <li>Emissions from pipe coating potentially applicable depending on location</li> <li>Applicability- &gt;100 tpy direct PM2.5 or CO emissions (i.e., from pipe yard in Non-Attainment Area)</li> <li>ASAP did nice work on conformity- Tier IV emissions controls on contractor construction equipment for spur</li> <li>General Conformity Iso applies to carbon monoxide emissions, since Fairbanks is "Maintenance" status for CO</li> </ul>	Cindy	10 min
5	Transportation Conformity Considerations: <ul style="list-style-type: none"> <li>Likely will need to obtain a statement from FMATS that any on-road motor vehicle emissions are included in the current regional emission analysis for the area's transportation plan</li> <li>Trips Information will be needed to include in FMATS transportation budget for construction years</li> <li>Include material hauling, personnel transport thru and plausible worker visits to Fairbanks N-A area.</li> </ul>	Cindy	

	MINUTES OF MEETING (MOM)	DCN tbd 01-Aug-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 18, 2016
Sub-Project Name	Integrated (All Segments)	Location	Department of Environmental Conservation, 410 Willoughby Ave, Juneau, AK 99801
Meeting Subject	Update ADEC staff on the Alaska LNG Project, discuss Project BACT Design and modeling considerations, and obtain input ADEC BACT and modeling issues		

ATTENDEES			
Name	Organization	Name	Organization
Alan Schuler	Alaska Department of Environmental Conservation (ADEC)	Jim Pfeiffer	Alaska LNG Project
Bart Leininger	Ashworth Leininger Group	John Kuterbach	Alaska Department of Environmental Conservation (ADEC)
Fathima (Zeena) Siddeek		Tom Damiana	AECOM
James Renovatio	Alaska Department of Environmental Conservation (ADEC)		

DISTRIBUTION			
Name	Organization	Name	Organization
Norm Scott	Alaska LNG Project	Bart Leininger	
Jeff Raun	Alaska LNG Project	Tom Damiana	
Jennifer Dupont	Alaska LNG Project	Jim Pfeiffer	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Brian Hoefler	
Philip Brinkmann	Alaska LNG Project	Chris Humphreys	

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	ADEC Provided Overview of Alaska LNG Fundamental BACT Assumptions and Dispersion Modeling Approach and Status	-Fundamental assumptions discussed related to BACT Cost-Effectiveness -GHG BACT was discussed -How to address commissioning emissions, particularly related to initial use of raw gas for fuel gas -Approvals needed for wind tunnel study and role of ADEC and EPA OAQPS -Use of tall tower meteorological data to ensure 10 meter met data provides conservative dispersion modeling results

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM) BACT AND DISPERSION MODELING OVERVIEW	USAI-PS-BPDCC-00-000002-005 18-MAY-2016 REVISION: A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Integrated	<b>Date of Meeting</b>	May 18, 2016
<b>Meeting Subject</b>	BACT and Dispersion Modeling Overview, GTP and Liquefaction Facilities	<b>Location</b>	ADEC Juneau, AK offices

ATTENDEES			
Attended By	Organization	Attended By	Organization
Jim Pfeiffer	AkLNG	James Renovatio	ADEC
Bart Leininger	ALG for AkLNG	Alan Schuler	ADEC
Tom Damiana	AECOM for AkLNG		
John Kuterbach	ADEC		
Zeena Siddeek	ADEC		

DISTRIBUTION (Attendees plus the following individuals)			
Name	Organization	Name	Organization


AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions and Safety Moment	Jim Pfeiffer	15 min.
2	Project Overview and Status	Jim Pfeiffer	30 min.
3	BACT Considerations	Bart Leininger	30 min.
4	Dispersion Modeling Considerations	Tom Damiana	30 min.
5	Wind Tunnel Overview (not covered due to time constraints)	Tom Damiana	NA
6	Next Steps	Jim Pfeiffer	15 min.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1			
2			
3			
4			

	MINUTES OF MEETING	USAI-xx-xxxxx-00-0000xx-00x
	ALASKA LNG MONITORING PLANS MEETING WITH ADEC – MAY 19, 2016	19-MAY-16 REVISION: A
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<b>Locations:</b> Anchorage, AK Call-in from other locations	<b>Meeting Name:</b>	Alaska LNG Monitoring Plans Meeting	
	<b>Meeting Subject:</b>	Alaska LNG Project Monitoring plans	
	<b>Date of Meeting:</b>	5/19/2016	
<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Dan Fremgren	ADEC	Alan Schuler	ADEC
Barbara Trost	ADEC	Elizabeth Nakanishi	ADEC
James Renovatio	ADEC	Jim Pfeiffer	Alaska LNG Project
Chris Humphrey	exp Energy Services	Brad Broker	SLR International Corp.

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	<b>Introductions and Safety Moment</b> <ul style="list-style-type: none"> <li>Mosquito Protection</li> </ul>	J.Pfeiffer	1 Hour
2	<b>Alaska LNG (Project) Overview</b> <ul style="list-style-type: none"> <li>B. Trost asked whether data was potentially needed along pipeline corridor. J. Pfeiffer indicated that initial work using screening techniques suggested that new data collection was not likely needed.</li> <li>J. Pfeiffer indicated that the project was approaching completion of Pre-FEED or “investigate” and that decision whether to proceed with more expensive FEED remains to be made.</li> </ul>	J.Pfeiffer	
3	<b>Liquefaction Facility Status / Plans</b> <ul style="list-style-type: none"> <li>J. Renavatio asked about whether the staged construction of LNG trains indicated that the entire project could come on line in stages. J. Pfeiffer indicated that the hope was that GTP, pipeline, and LNG schedules could be aligned to partially commission the Project as early as possible.</li> <li>J. Pfeiffer explained that the project was comparing site-specific data to Kenai NWS data to demonstrate representativeness and use a longer data record. A. Schuler indicated that either 1 year site-specific PSD-quality data or 5-year Kenai NWS data were acceptable as long as the 5-year Kenai NWS data were found representative of tall stacks.</li> <li>A. Schuler asked about the timing of preconstruction monitoring QAPP and startup to determine impacts on FY2017 ADEC RSA budget. J. Pfeiffer indicated that a QAPP would likely be submitted toward the end of 2016. Actual preconstruction monitoring start was dependent on upcoming Project decisions but anticipated in early 2017.</li> </ul>	J.Pfeiffer	
4	<b>Gas Treatment Plant Status / Plans</b> <ul style="list-style-type: none"> <li>B. Broker confirmed that the GTP tall tower was commissioned and data collection began May 1, 2016.</li> <li>J. Pfeiffer indicated that A-Pad and CCP data would be used to model PSD background and that CCP data would provide data to satisfy preconstruction monitoring requirements.</li> <li>J. Pfeiffer indicated that the GTP tall tower data was expected to be used to support use of A-Pad data as representative of modeled stacks. J. Pfeiffer indicated that there may be interest in the utility of the tall tower data for on-going work and it may be continued beyond the anticipated 1-year timeframe.</li> </ul>	J.Pfeiffer	

	MINUTES OF MEETING ALASKA LNG MONITORING PLANS MEETING WITH ADEC – MAY 19, 2016	USAI-xx-xxxxx-00-0000xx-00x 19-MAY-16 REVISION: A
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5	<b>Next Steps</b> <ul style="list-style-type: none"> <li>B. Broker asked for ADEC confirmation that close-out audits were required should the project desire to shut down the monitoring station but wanted to use any data collected in 2016. B. Trost confirmed that a close-out audit of the met tower was required as close to the end of the program as possible.</li> <li>B. Broker asked for ADEC guidance on how to submit the 2016 data if that is the project's decision. B. Trost indicated that a report covering only the new 2016 data was acceptable and there was no need to re-produce data and records that will have been reviewed in the 2015 data submittal.</li> </ul>	J. Pfeiffer	
	<b>FY2017 ADEC RSA Budget Planning</b> <ul style="list-style-type: none"> <li>J. Pfeiffer and A. Schuler discussed anticipated project needs during FY2017 and determined that ADEC should expect a similar level of support in FY2017 and to budget accordingly.</li> </ul>	A. Schuler	

ACTION ITEMS:			
<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1			
2			
3			



## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	May 26, 2016
<b>Sub-Project Name</b>	Marine Terminal, Gas Pipeline	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Question from NMFS on purpose of vibracoring		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Claire Joseph	Alaska LNG Project	Judy Jacobs	National Marine Fisheries Service (NMFS)

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Questions about vibracore	Discussion included:  - Vibracor duration - NMFS Practical Spreading Model

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG, Pipeline Sub-Project		
	<b>Meeting Subject:</b>	PHMSA Technical Engagement Meeting		
	<b>Date of Meeting:</b>	26 May 2016		
<input checked="" type="checkbox"/> Telephone	<b>Number:</b>	USAP-PP-SAMOM-10-000027-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Steve Nanney (SN) in person		PHMSA	Rick Noecker (RN) in person	AKLNG
Rob Guisinger (RG) x tel		PHMSA	Mario Macia (MM) in person	AKLNG
Jennifer Owens (JO) x tel		PHMSA	Sandra Barnett (SB) in person	AKLNG
Amelia Samaris (AS-P) x tel		PHMSA	Alyssa Samson (AS-A) x tel	AKLNG
Kay McGiver (KM)		PHMSA	Greg Ruschau (GR) in person	ExxonMobil
David Kroon (DK)		Aegian (Corpro)	John LaFontaine (JL) x tel	ExxonMobil
<b>DISCUSSION ITEMS:</b> (see USAP-PP-SAMOM-10-000027-001 for slide pack)				
	<b>Meeting Purpose:</b> Review Alaska LNG 3LPO Operations and Maintenance, incorporation of SP information into 2 <sup>nd</sup> DRAFT of FERC Resource Reports, to include review of SP Conditions and Environmental Information, and discuss MLBV spacing south of Fairbanks.			
Slide #	<b>Notes</b>			
1-4	<b><u>Introductions, Safety Moment and Overview</u></b>			

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 26 May 2016

#### Multi-Layer Coatings

GR: nothing different with 3LPO as compared to FBE – same tools and techniques used to assess the coating and CP. FBE more susceptible to handling and construction damage. FBE requires larger CP current. Majority of world-wide on-shore installations over the past 10 years have been 3LPO

JF: Starts with coating selection: 3LPO have a fewer number of anomalies to start with. Surveillance system is less overwhelmed.

RN: SN previously has raised concerns with CP shielding. How do we detect that if it occurs?

JF: Cohesive disbondment that creates a crevice without a holiday – cannot detect this type of delamination, but conversely there is no corrosion. If there is a holiday, there are a lot of variables, but there will be detection of current using over the line survey techniques.

DK: Professional background – one of the founders of Corpro, in 2009 bought by what eventually became Aegion. Now Chief Technical Officer for Aegion. Focus of Corpro is coatings and cathodic protection. CCSI, Bayou (both FBE and 3LPO – primarily FBE given us market), CRTS are member companies of Aegion.

RG: please describe your experience with 3LPE.

DK: Most of the experience is outside the US. Some problems with first few applications. Issue itself is shielding: it doesn't lead to corrosion in and of itself. Most of the industries' experience with disbonded coatings is with heat shrink sleeves and tape wraps. Not the same as an extruded PE coating system.

GR: Shrink wraps had a lot of disbondments, which got lumped into extracoat and then 3LPE. Different systems, but placed in the same category.

SN: have you worked with companies that put in 3LPE where you performed the DCVG, then CIS surveys? Asking because he has no personal experience with 3LPO coatings. US DOT doesn't have a good understanding of how the surveys work – do they work? E.g. Plains crude pipeline with coal tar coating: water under the coating, and corrosion accelerated under the coating. Bigger concern is cracking [SCC]. If PHMSA gives a "no objection" to Alaska LNG's Special Permit, what survey tools are in place? Or, does an EMAT tool need to be used?

RG: Concerns with measurement and remediation in the US. Just because they have used 3LPO internationally doesn't mean it will work in the US. Sees 3LPO as a "young system".

GR: have been around since 1985. Haven't heard any negative experience about how they fared over time.

DK: Talking about a corrosion control system. With over the line survey: penetration to underlying metal, can be detected. Cannot detect if the PE is intact, and there is a holiday in the FBE. But the only time that is a problem is if there is an electrolyte.

MM: Similarly cannot detect a blister in an FBE coating. Over the line techniques cannot detect a defect that doesn't allow electrolyte in.

RG: FBE can pass a certain level of current through it. If there is a 5-6 foot disbondment in a 3LPO coating, will the current get to the pipe?

DK: it will travel several inches, but not feet. The difference is that FBE can pass current through of it.

JL: This is an important question. The fact that you are drawing current from a breach, this creates a voltage gradient that is detected by ACVG or DCVG – there will be an indication of something. Second part of the question is whether you can get CP protection back from the breach. If there was a very long disbondment,

~~unless you have a large amount of exposed steel, you would still have CP protection. Lastly, is a large disbondment likely, or possible.~~

DK: If you have a breach in the PE, and it is disbonded from the FBE, there is a limited supply of oxygen. In the water industrv. they use Iron pipe that is wrapped with PE sheeting. Even when there is a crevice. there

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 26 May 2016

9-12	<p><b>Review SP Conditions and Environmental Information for 2<sup>nd</sup> DRAFT of FERC RRs</b></p> <p>SN: Aaron Glaser is the PHMSA legal counsel that reviews SP Conditions and Environmental Information. Waiting for legal to respond to the MLBV and CA Spacing and 3LPE SP Conditions. Please send a revised copy of the SBD Env. Info.</p> <p>SN: MLBV and CA Spacing SP Conditions - #6, stuck on the 60% MOP. RN explained basis of 60%: there is no requirement in CFR 192 for the pressure at which line break valves must actuate. Therefore, Project started with TransCanada best practice, which is 40% MOP, as the base design case. To ensure that block valve actuation times are equal or better with the SP spacing we increased the activation pressure to 60% MOP. SN: rulemaking in place to address this. Will provide comments to Alaska LNG once he receives feedback from PHMSA Law.</p> <p>AS-P: Has heard concern of segmentation with information in FERC RRs, however, PHMSA's action is distinct, yet not related because the approval to construct the pipeline is not predicated on issuance of the SP. PHMSA does not have siting authority.</p> <p>RN: explains where SP information will be placed in FERC RR11.</p> <p>SB: FERC then takes the RRs and writes an EIS.</p> <p>AS-P: since <b>FERC will be providing an EIS....PHMSA can set up a call to FERC</b>. PHMSA's concern is that their action is lost in the broader federal action, and that the siting will dictate PHMSA's action.</p> <p>SN: could the Project consolidate the EI into Appendices and also include the information throughout the RRs?</p> <p>SB: We could do this if needed. <b>Need to check with EIS lead to see if we can make this work.</b></p> <p>AS-P: with other Projects the alternatives presented did not represent PHMSA. PHMSA's interest is to have a consolidated document for their action.</p> <p>SN: <b>Will set up a meeting to discuss with Jim Martin and AS-P.</b></p> <p>AS-P: Ok to have one set of SP Conditions for 3LPE, CA and MLBV Spacing, and two EI (CA and MLBV spacing) and 3LPE coating. SN agrees to keep 3LPE EI separate from CA and MLBV spacing.</p> <p><i>What is required for the 3LPE FONSI?</i></p> <p>SN: <b>needs pros/cons, construction surveys, in-service (e.g. CIS) to demonstrate maintaining pipeline, and then if there are disbonded coatings, how do you address concerns with CP shielding, localized corrosion that is accelerated, and/or potential for SCC. Information or feedback from Europe, or advise that there are no information (PRCI, EPRG, or operator specific, failures or absence of failures). PHMSA would need a lot of information to agree to the SP.</b></p> <p>AS-P: <b>EI template would look similar to what we have for EI for SBD. Does it impact the environment, or impact the threat of release, and how the SP Conditions ensure that we are equal or better safety as in full compliance with the Code.</b></p>
13-15	<b><u>Administrative</u></b>

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 26 May 2016

16-27	<p><b>Review of Infrastructure Proximity Information for MLBV Spacing</b>  SN: Would like a map of the route with proposed valves, key bridges, Dalton and Parks highways, and HCAs overlaid. OK to break out map into 11X17 sheets. RN to pursue access to GIS for PHMSA. How many map sheets?</p> <p>RG: Will send map examples from TAPS.</p> <p>SN: look at MLBV13 – why 50 miles, what is the terrain?</p>
	<p>SN: explains TAPS crossing – 2x crack arrestor on each side with the farthest crack arrest located where the pipeline first comes into closer proximity to TAPS [~200 ft.], and where it leaves proximity to TAPS.</p> <p>MM: considering including intrinsic arrest in TAPS proximity [what length wrt to TAPS?]</p> <p>RN: send SN TAPS AG vs. BG pipeline spreadsheet.</p>


#### ACTION ITEMS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1	<p>3LPO coatings: ensure the following questions, or request for information are provided either in the Environmental information, or the 3LPE Special Permit Conditions:</p> <ul style="list-style-type: none"> <li>Do over the line techniques (DCVG, CIS, etc.) effective with 3LPE coatings? Provide examples of actual over the line surveys from 3LPE lines. Is there anything different with 3LPE coatings that would impair the resultant over the line data? What will these techniques find, and miss with 3LPE (e.g. disbondment vs. break in coating)?</li> <li>What survey techniques will be used during construction and maintenance and how will they be used? What, when and how often?</li> <li>Regarding performance of 3LPO during operations, there are two questions: based on industry experience, 1) does SCC happen or not and 2) what to do if it does occur (detection and mitigation). PHMSA will accept data from outside the US. Go to EPRG, PRCI, etc. Need to see performance data for 3LPO. Log of who we asked, and where we have searched.</li> <li>Include data that demonstrates CP will actually work with 3LPE coating.</li> <li>Explain whether 3LPE shields CP under disbonded coatings, if it doesn't demonstrate it, and if it does, explain the mitigation measures.</li> <li>What would be the steps taken to ensure that 3LPO coating wouldn't shield CP in our particular situation? Or show historically that shielding hasn't been a problem in other places. Does this coating, in conjunction with CP, lead to localized corrosion or SCC?</li> <li>Acknowledge and explain past problems, and how our Conditions will ensure disbondment will not happen on Alaska LNG.</li> <li>Include pros-cons for 3LPO system.</li> <li>What is the localized (accelerated-e.g. AC interference) corrosion threat, and how do we plan to monitor and mitigate it?</li> <li>Explanation of coating failures, or details on who was contacted to confirm no failures with 3LPE coatings. Need to address references in the industry (c.f. DNV GL Final Report, 1<sup>st</sup> draft).</li> </ul>	Rushau / LaFontaine / Samson	14 June-16
2	Contact Rosen or GE to determine the likelihood of an EMAT tool of 42" size	Noecker	14 June-16

## MINUTES OF MEETING

### PHMSA Technical Engagement Meeting, 26 May 2016

3	PHMSA to contact FERC about inclusion of Special Permit information, to include Environmental Information, in Alaska LNG FERC Resource Report 11. Confirm whether plan discussed with Alaska LNG is agreeable to both FERC and PHMSA [inclusion of SP overview in Section 11.6, attachments for SP Conditions and Environmental Information that covers each SP area.]	Nanney / Samaras	7 June-16
4	Check with EIS lead to see if the SP Environmental Information can be included both in the body of the Resource Reports, and consolidated in RR11 appendices.	Barnett	7 June-16
5	Ensure that the Env. Info. template for 3LPO addresses the following: does use of 3LPO impact the environment, or impact the threat of release, and how the SP Conditions ensure that we are equal or better safety as in full compliance with the Code.	Noecker	7 June-16
6	Generate a route map overlaid with: <ul style="list-style-type: none"><li>• Proposed valve type and location (check on location of MLBV 13)</li><li>• Key bridges from PHMSA and ADOT&amp;PF discussions</li><li>• Dalton and Parks Highways</li><li>• TAPS and Fuel Gas Line</li><li>• HCAs</li><li>• Railroad</li><li>• Intertie power line</li></ul> OK to break out map into several 11X17 sheets (10-50?).	Noecker	14 June-16
7	Provide Alaska LNG (Noecker) example of TAPS map book to use as a go-by for action item #6	Guisinger	c/w
8	Send Steve Nanney TAPS Aboveground vs. Belowground comparison to Alaska LNG Mainline.	Noecker	c/w

	MINUTES OF MEETING (MOM)	DCN tbd 19-Aug-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 26, 2016
Sub-Project Name	Gas Pipeline	Location	Houston, TX
Meeting Subject	Review Multi-Layer Coatings Special Permit and Environmental Information		

ATTENDEES			
Name	Organization	Name	Organization
Alyssa Samson	Alaska LNG Project	Kay McIver	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Amelia Samaras	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Mario Macia	Alaska LNG Project
David Kroon	AES Electric Supply Inc	Rick Noecker	Alaska LNG Project
Greg Ruschau	ExxonMobil URC	Rob Guisinger	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)
Jennifer Owens	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Sandra Barnett	Alaska LNG Project
John LaFontaine	ExxonMobil	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Multi-Layer Coatings	Technical discussion of multi-layer coatings including direct experience with 3LPO. Measurement (survey) and remediation techniques discussed with emphasis on potential for shielding and CP.
2	SP Environmental Information and Conditions Review	Wrt SP conditions, one set of SP conditions for 3LPE, CA and MLBA spacing should work with two corresponding environmental documents. Note, 3LPE environmental information needs to be separate from CA and MLBV information. SDB SP is a separate work from CA, MLBV and 3LPE. Regarding 3LPE, more information required by PHMSA.
3	Infrastructure Review	PHMSA requested map information containing valves, key bridges, highways and HCA's overlaid.
4	Infrastructure Review	PHMSA requested map information containing valves, key bridges, highways and HCA's overlaid.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 27, 2016
<b>Sub-Project Name</b>	Marine Terminal, Gas Pipeline	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	NMFS questions on Alaska LNG / EMALL vibracoring operations for IHA		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Billy Oliver	Alaska LNG Project	Judy Jacobs	National Marine Fisheries Service (NMFS)
Claire Joseph	Alaska LNG Project	Sara Young	National Marine Fisheries Service (NMFS)
Jeff Raun	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>


## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Questions about Vibracoring Operation	Judy Jacobs asked Billy Oliver a number of questions about the operational aspects of vibracoring, including why it is used as opposed to geotech borings, how the data which is collected by vibracoring compares to the data collected by sub-bottom profiler, why grab samplers cannot provide the required data, and how the field team operates the vibracore (i.e. is the vibracore stopped after the sound source is started?). Billy Oliver provided answers to all of these questions.
2	Vibracoring as sound source and exposure calculations	Billy Oliver asked Judy Jacobs and Sara Young about vibracore calculations. They said that since the vibracore lasts a longer period of time than originally anticipated, exposure calculations for sounds out to 120 dB must be calculated, and using practical spreading model results in large areas of ensonification. NMFS has not yet finished the exposure calculations for vibracore, and confirmed the activity assumptions with EMALL to be used for calculations: 100 vibracores over 50 days and 30 days of subbottom profiler chirp with approx. 50 km of survey per day.
3	Use of 2015/2016 IHA	Sara Young said that NMFS had originally targeted end of May 2016 for IHA issuance but that IHA would not be ready at end of May. Survey days allowed under the 2015/2016 IHA is still valid through August 2016. Claire Joseph said EMALL would check and email Sara Young and Judy whether that is the case. Billy Oliver said that the planned survey schedule begins June 2nd.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



	MINUTES OF MEETING (MOM)	USAI-PS-BPDCC-00-000002-TBD 14-JUN-2016 REVISION: 1A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Pipeline	<b>Date of Meeting</b>	May 27, 2016
<b>Meeting Subject</b>	Alaska LNG and Denali Park and Preserve Geohazard Management Programs	<b>Location</b>	Denali National Park and Preserve Office, Alaska+ field

ATTENDEES			
Attended By	Organization	Attended By	Organization
Denny Capps	DNPP	Bob Albrecht	Alaska LNG
Heather Rodgers	DNPP		
Russell Rosenberg	DNPP		
Sam Hooper	DNPP		
Molly McKinley	DNPP		

AGENDA ITEMS		
Item	Agenda Item(s)	Leader
1	Site visit	DNPP
2	Alaska LNG overview of route characterization and geohazard assessment	Alaska LNG
3	DNPP overview of geohazard management	DNPP

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1			
2			

#### MEETING DETAILS

<b>Sub-Project Name</b>	Restoration Planning Group / SSHE	<b>Date of Meeting</b>	03-Jun-2016
<b>Meeting Subject</b>	Alaska LNG Restoration Plan Draft	<b>Location</b>	exp

#### ATTENDEES

Attended By	Organization	Attended By	Organization
Sandy Gibson	USACE	Mike Holley	exp
Mary Romero	USACE	Michelle Erickson	exp
Norm Scott	AKLNG	Janet Kidd	ABR
Julie McKim	AKLNG		
Caryn Rae	AKLNG		

#### DISTRIBUTION (Attendees plus the following individuals)

Name	Organization	Name	Organization

#### AGENDA ITEMS

Item	Agenda Item(s)	Leader	Time
1	Alaska LNG Restoration Plan Draft	Mike H. and Janet K.	
2			
3			
4			
5			

#### ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date
1			
2			



## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting  <input type="checkbox"/> Teleconference	<b>Project Name:</b>	Alaska LNG Project
	<b>Meeting Subject:</b>	Intro meeting with State Fire Marshal's Office
	<b>Date of Meeting:</b>	June 5, 2015; Anchorage, AK
	<b>Number:</b>	USAI-PE-SAMOM-00-000045-000

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Diana Parks	State Fire Marshal's Office	Adrienne Rosecrans	Alaska LNG Project
Lloyd Nakano	State Fire Marshal's Office	Scott Gillis	Alaska LNG Project
Jarrett Zuspan	State Fire Marshal's Office	Ruben Medrano	Alaska LNG Project
John Cawthon	State Fire Marshal's Office	Robert Rood	Alaska LNG Project
Don Perrin	SPCO	Jonathan Curniski	Alaska LNG Project
Jason Walsh	SPCO	Claire Joseph	Alaska LNG Project
Shannon Miller	SPCO	Luci Machado	Alaska LNG Project
-	-	Doug Yates	Alaska LNG Project

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Introductions, Safety Moment, AKLNG Project Overview	Scott Gillis	30 min
2	GTP, LNG / Marine and Pipeline sub-project overviews and early loss prevention philosophies	All	80 min

### DISCUSSION TOPICS:

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
1	<b>Introductions</b> The group discussed that the purposes of the meeting were to provide the Alaska State Fire Marshal's Office (SFMO) with an early introduction to the Alaska LNG and to establish contacts for further communication.  The group discussed that it is important for the Project to engage with SFMO early in the design phases (i.e. Pre-FEED) so that requirements are properly verified and documented.	n/a	n/a

## MINUTES OF MEETING

### Intro meeting with State Fire Marshal's Office on Alaska LNG Project

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
2	<p><b>Project Overview</b>  Scott Gillis presented an overview of AKLNG Project and a technical overview of the GPT and LNG/Marine sub-projects. Jonathan Curniski presented a technical overview of the Pipeline sub-project. Adrienne Rosecrans and Ruben Medrano presented an overview of the NEPA / Regulatory process.</p> <p>Aspects of design that were discussed included: applicable codes and standards being used for design, Fire Service Guidance for Participating in LNG Terminal Evaluation, Siting and Operations (2007), and Early Loss Prevention Philosophies for each sub-project. And aspects of the NEPA / regulatory process included an overview of the different federal, state and local agencies involved in the AKLNG Project.</p> <p>It was clarified the LNG carriers were not part of the AKLNG Project.</p>	n/a	n/a
3	<p><b>Design Codes</b>  Scott Gillis explained that the Project is currently being designed according to both FERC requirements listed in the CFRs, in compliance with the Alaska Administrative Code (AAC), and additional lead party design codes and standards. The CFR and AAC required codes and standards may create discrepancies regarding which year version of the code applies. The SFMO was agreeable to working through those "pinch points" through the Alternate Means and Methods process (exceptions).</p> <p>The SFMO representatives explained that the IBC 2009 is the currently approved version. The SFMO is working on adopting IBC 2012 and eventually IBC 2015. It was stated the use of the 2012 IBC version for the AKLNG project would be acceptable. The AKLNG proposed version of the IBC can be officially documented so there are no issues when a version of the IBC is adopted by the State.</p> <p>The SFMO clarified that they do not issue a 'Certificate of Occupancy'. The SFMO issues a 'Certificate of Approval' for process and non-process type buildings. And the definition of a building is any structure with four (4) walls and a roof. All structures will require a "Plan Review".</p> <p>The SFMO informed they coordinate with the local Fire Chief to ensure the design and emergency response plans are in alignment with the fire department expectations and approval requirements before the SFMO approves our plans.</p> <p>The SFMO indicated that appointment of a new State Fire Marshal (position is currently vacant) might assist in helping provide guidance with respect to codes that should be used. The new State Fire Marshal will have the authority to make decisions and document them.</p>	n/a	n/a

## MINUTES OF MEETING

### Intro meeting with State Fire Marshal's Office on Alaska LNG Project

<u>Item</u>	<u>Action Items/Topics</u>	<u>Action Item(s) Assigned To:</u>	<u>Due Date</u>
4	<b>Inspections</b> Diana Parks explained that construction phase inspections are handled by her group for buildings over \$5M. The inspections are typically performed at 60% & 90% completion.  John Canthon is the POC for operations and inspections and sits with the State Pipeline Coordinator's Office (SPCO). He commented that they believe the LNG plant may not be applicable to the Fire Marshal (FM) inspection because FERC will perform the same inspection each year. GTP and Pipeline facilities will be applicable to annual FM inspections.	n/a	n/a
5	<b>Emergency Response</b> The SFMO explained that the local fire departments must be involved in the emergency response planning. The SFMO will be checking to make sure the local departments review and approve the emergency response plans.  <u>Action:</u> Talk with Phil Suter regarding recommended timing to engage with the local fire departments to start discussing emergency response planning.	A. Rosecrans	6/30/2015
6	<b>Next Steps</b> The SFMO recommends a project review with the new State Fire Marshal, once he/she is nominated. From a technical standpoint, the AKLNG team can start engaging with Diana Parks regarding design code and discrepancy concerns.  <u>Action:</u> Loss Prevention Engineers for each sub-project team to develop a preliminary list of potential discrepancies between codes and standards, as well as potential issues related to compliance with code requirements.	Luci Machado Scott Gillis Jonathan Curniski Francisco Santos	TBD

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	June 6, 2016
<b>Sub-Project Name</b>	LNG Plant	<b>Location</b>	Calais I, 3201 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Clarify Recommendations for General Construction Projects Near Public Water Systems		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Billy Oliver	Alaska LNG Project	Jeffrey Warner	ADEC, Division of Environmental Health
Charley Palmer	ADEC, Division of Environmental Health	Jennifer Murrell	Alaska Department of Natural Resources (ADNR)
Jeff Raun	Alaska LNG Project	Julie McKim	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Practical Approach to Guideline Recommendations	Open discussion occurred about the ADEC Recommended Guidelines for protection of drinking water areas from general construction areas after the Project team provided an overview of the G&G program. ADEC communicated that these are recommendations and application could be tailored project by project. Alaska LNG confirmed that communication with Public Water System owners was scheduled. AKLNG acknowledged that ADNR had previously issued these guidelines as recommendations and not permit stipulations on other project (Point Thomson for Temporary Water Use Authorizations). ADNR/SPCS indicated that issuing the guidelines as recommendations for consideration and not permit conditions would be a reasonable approach for the ADNR Temporary Land Use Permit (LAS 29678).

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 6, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	800 Cushman St, Fairbanks, AK 99701
<b>Meeting Subject</b>	Discuss relevance of transportation conformity against a broader backdrop of general conformity for Fairbanks PM non-attainment and CO maintenance areas		

## ATTENDEES


Name	Organization	Name	Organization
Bob Dulla	Sierra Research	Jim Pfeiffer	Alaska LNG Project
Brian Hoefler	SLR International Corporation	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Donna Gardino	FMATS	Tom Carlson	Sierra Research

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	FMATS and Transportation Conformity	• Metro transportation plan-20 yr horizon updated every 4 years, next update cycle to begin in 3Q16 • Project related inputs to transport model desirable to plan for emissions conformity in Fairbanks PM 2.5 NAA, but also for bridge capacity, etc • Emissions info ultimately critical ADEC input to SIP budget for NAA
2	FERC and General Conformity	• FERC's obligation in licensing projects is to ensure conformity for both a transportation and a general (non-transport) project air impacts • Concern about double counting if considered in transportation plan in addition to FERC licensing/conformity process • Project will need to characterize all direct and indirect emissions by time and amount of specific emissions (NOx, PM, etc) • Past projects have found that development/purchasing of offsets easier than amending SIP
3	Intersection of Transportation and General Conformity for Alaska LNG?	• Direct/indirect emissions will be broken out by the NAA or maintenance area in which they occur • Timing of licensing/NEPA document may not allow enough time to amend the SIP concurrently, but FERC doesn't dictate path to conformity • Seems like most emissions will be transportation related, so general (non transport) conformity issues not likely to be as significant • Taps/connections/spur lines not addressed under the Project but may need some treatment as part of cumulative impacts • Metro transport plan required to show attainment by 2019
4	Follow-up/what's next?	• More information available to FMATS via Draft 2 RRs, Fairbanks FERC workshop in later August • FERC will consider everything via general conformity unless another approach is suggested • Detailed conversation better handled in separate meeting vs workshop

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 2, 2016
Sub-Project Name	Gas Pipeline	Location	Anchorage, AK
Meeting Subject	Discussion on DNPP Alternative with NPS and ADOT&PF (meeting organized by AGDC)		

ATTENDEES			
Name	Organization	Name	Organization
Brooke Merrell	United States National Park Service, Alaska Regional Office	Norm Scott	Alaska LNG Project
Cory Wilder		Robert Albrecht	Alaska LNG Project
Kalb Stevenson		Scott Lust	CH2M HILL
Luke Marodi	Alaska LNG Project	Steve Carwile	United States National Park Service, Alaska Regional Office
Mike Thompson	Alaska Gasline Development Corporation	Todd Bunnell	ExxonMobil
Miriam Valentine	United States Department of the Interior (USDOl)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 13, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Overview of Alaska LNG and TAPS study for BLM		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Bonnie Friedman	Bureau of Land Management (BLM)	Nolan Heath	United States Bureau of Land Management Office of Pipeline Monitoring (JPO)
Claire Joseph	Alaska LNG Project	Norm Scott	Alaska LNG Project
Dave Mushovic	BLM, Alaska State Office	Peter Nagel	Alyeska Pipeline Service Company
Earle Williams	BLM, Alaska State Office	Philip Brinkmann	Alaska LNG Project
Gregory Bjorgo		Sandra Barnett	Alaska LNG Project
Michael Zhang	Alaska LNG Project	Tina McMaster-Goering	BLM, Alaska State Office

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	SSHE Moment	Michael Zhang presented a SSHE moment which used two different incidents relating to pipe transportation safety to illustrate the value in evaluating incidents for their potential consequence in addition to actual consequence.
2	TAPS Impact Study	Michael Zhang presented an overview of the approach and results from the TAPS Impact Study. The following questions or topics were also raised and discussed: • Alaska LNG Project pipe grade and operating pressure. • Scope of PHMSA Special Permits for which Alaska LNG Project intends to apply/request. • Alaska LNG Project pipeline construction logistics: transport by highway or ocean/barge. • Alaska LNG Project pipeline cathodic protection system. • Alaska LNG Project use of pipeline insulation to mitigate thermocarsting (especially prior to commissioning.) • Consideration of opportunities and vulnerabilities to Alyeska / TAPS spill response, using ODPCP(s) as reference documents. • BLM expressed concern regarding secondary impacts of a combustion event.
3	BLM oversight and feedback on Project design	The group discussed the dual roles of BLM in both evaluating issuance of a ROW Grant to the Alaska LNG Project for the pipeline located on BLM land, as well as BLM's oversight and monitoring responsibilities regarding TAPS (see: <a href="http://www.blm.gov/ak/st/en/prog/pipeline_monitoring.html">http://www.blm.gov/ak/st/en/prog/pipeline_monitoring.html</a> ). BLM interests are ensuring that where the Alaska LNG Project is located in close proximity to TAPS, the integrity and operability of TAPS are maintained. BLM noted they do not have specific criteria/thresholds to determine acceptability of collocated infrastructure impacts, other than a general remit to preserve TAPS integrity and operability. Alaska LNG Project requested and would appreciate BLM inputs to the TAPS Impact Study engineering reports; updates will be incorporated as appropriate in the FERC Application and/or in future engineering studies conducted in FEED or Detailed Design.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>
1			

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 20, 2016
<b>Sub-Project Name</b>	Gas Treatment Plant	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	West Dock Sampling Program Summer Work		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Chris Meade	United States Environmental Protection Agency (EPA)	Michiel Holley	exp Energy Services
Chris Wrobel	exp Energy Services	Sandy Gibson	United States Army Corps of Engineers (USACE)
Jennifer Dupont	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	DH4 modification	Jennifer Dupont and Chris Wrobel presented the GTP's new plan for a DH4 modification which would result in no dredge channel. EPA's initial reaction is that this is a reasonable scenario, but needs more understanding of potential environmental impacts. Alaska LNG Project would move from working this with the dredging manager (i.e., Chris Meade) to seeking approvals through their discharge of fill material manager (Gail Martin in Anchorage office would be lead ) and EPA's NEPA manager (Jennifer Curtis); Alaska LNG Project would need to approach EPA with solid justification and demonstration of LEDPA. USACE said they had a few more comments around potential environmental impacts of the modified DH4 case. Alaska LNG Project would need to evaluate/have an understanding of sediment transport, existing habitat in fill area, potential impacts to coastal erosion and/or physical oceanography; will also need to consult NMFS since this involves Essential Fish Habitat modifications; whaling impacts. One of USACE's permitting goals will be to avoid changing the natural sediment transport. The goal is to avoid accretion or degradation of sediments as a result of the project. The Project would also need to define if the placement of fill is temporary or permanent.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	USAI-PS-BPDCC-00-000002-005 JUNE 28 2016 REVISION: 0
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MEETING DETAILS			
<b>Sub-Project Name</b>	Liquefaction Facility Team	<b>Date of Meeting</b>	June 28, 2016
<b>Meeting Subject</b>	PHMSA FERC PIP and All Concrete Tank Engagement	<b>Location</b>	Dot Headquarters Washington D.C.

ATTENDEES			
Attended By	Organization	Attended By	Organization
Kristen Baldwin (Legal) exit at Tank Presentation (KB)	PHMSA	Michael Britton (MB)	Alaska LNG Project
Ken Lee (KL)	PHMSA	Dave Raaf (DR)	Alaska LNG Project
Joe Sieve (JS)	PHMSA	David Bergeron (DB)	Alaska LNG Project
Jeff Marx (x tel) (JM)	PHMSA	Jennifer Dupont (JD)	Alaska LNG Project
Buddy Secor (BS)	PHMSA	Sandra Barnett (SB)	Alaska LNG Project
James (Jim) Glaze (JG)	FERC	Fritz Kruzen (FK)	AGDC
Heather Ferree (HF)	FERC		
Hugh Thomas (HT)	FERC		
Bob Bachman (joined a 10 am) at Slide 11 (BB)	FERC		

DISTRIBUTION (ALASKA LNG Attendees only)			
Name	Organization	Name	Organization

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Introductions, Safety Moment, Project Status Update	Michael Britton	930 am
2	PIP	Dave Raaf	
3	Design Spill	David Bergeron	
3	All Concrete Tanks	Dave Raaf	
4	Driver Selection	Michael Britton	
5	Wrap -up	Sandra Barnett	1 pm

## MEETING DETAILS

Meeting Type	Phone Call	Date of Meeting	June 28, 2016
Sub-Project Name		Location	Calais I, 3201 C St, Anchorage, AK 99503
Meeting Subject	Phone call to determine status of trestle fire hydrant approval and next steps and status of Letter of Recommendation for WSA		

## ATTENDEES

Name	Organization	Name	Organization
David Parker	United States Coast Guard (USCG)	Jeff Raun	Alaska LNG Project

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Hydrant Letter Under Review; LOR with Captain of the Port	Jeff Raun called LTJG David Parker to discuss next steps for trestle fire hydrant review. Jeff offered to send a slide pack to USCG for their review and then re-evaluate if a meeting was necessary to discuss fire hydrant questions persisting from USCG. LTJG Parker confirmed the Letter of Recommendation for the Waterway Suitability Assessment was on Captain Albertson's desk for signature.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	June 30, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Calais I, 3201 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Confirm project description is current; determine NMFS status for issuing IHA		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Billy Oliver	Alaska LNG Project	Judy Jacobs	National Marine Fisheries Service (NMFS)
Jeff Raun	Alaska LNG Project	Sara Young	National Marine Fisheries Service (NMFS)

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	IHA Status	EMALL (Jeff) confirmed March 28th project description is current and requested NMFS evaluate the IHA application accordingly. NMFS confirmed that the Cook Inlet Beluga Whale (CIBW) is a spotlight species and that NEPA coverage for the right period and action is required. NMFS confirmed they are responding to a FOIA request. NMFS confirmed they would revise the Environmental Assessment to cover EMALL only; NMFS (Judy) would re-write the BiOp and the IHA would be based on that information, indicating that the 2017 EA would contain baseline from the 2015/2016 efforts. NMFS confirmed that applications for 2017 would have to run through a programmatic EA process with a potential outcome that an "unacceptable level of takes" would be determined therein requiring 2017 operators to scale back. NMFS confirmed that 2017 applications are due by October 1st. All action items from this meeting reside with NMFS.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING ALASKA LNG/FEDERAL LAND MANAGERS- AQRV ANALYSIS, JUNE 30, 2016	USAI-PS-BPDCC-00-000002-005 11-JUL-16 REVISION: 1A
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MEETING DETAILS			
<b>Sub-Project Name</b>	Liquefaction Facility (other sub-projects mentioned but not focus)	<b>Date of Meeting</b>	June 30, 2016
<b>Meeting Subject</b>	Protocols for Conducting Air Quality Related Values (AQRV) analysis at Kenai/Lake Clark	<b>Location</b>	U.S. Fish and Wildlife Service, Lakewood, CO and teleconf

ATTENDEES			
Attended By	Organization	Attended By	Organization
Don Shepherd (early departure)	National Park Service	Tom Damiana	AECOM
John Vimont (early departure)	National Park Service	Dustin Rapp	AECOM
John Notar	National Park Service	Bruce Macdonald	SLR
Andrea Stacey	National Park Service	Melissa (?), Kevin Wright, Amir	ERM on on behalf of FERC
Tim Allen	Fish and Wildlife Service	Kim Thone (sp?)	FWS/NPS intern
Catherine Collins	Fish and Wildlife Service		
Jim Pfeiffer	Alaska LNG		

DISTRIBUTION (Attendees plus the following individuals)			
Name	Organization	Name	Organization
Jeff Raun	Alaska LNG		
Megan Evans	Alaska LNG		

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Safety Minute	Jim Pfeiffer	~2:35-2:40
2	Brief presentation/discussion on background and proposed approach to Level 1 & 2 analyses	Dustin Rapp	~2:30-3:30
3	Level 3 analysis necessity	Dustin Rapp	~3:30-3:45
4	What are other AQRV topics of most concern for future engagements	Dustin Rapp	~3:45-4:15
5	Path Forward – Future AQRV discussions	Dustin Rapp	~4:15-4:30

ACTION ITEMS DISCUSSED DURING THE MEETING			
Item	Action Items/Topics	Assigned To	Due Date
1			
2			

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	July 11, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	8701 S Gessner Rd, Houston, TX 77074
<b>Meeting Subject</b>	Continuation of PHMSA pipeline SP discussions and a discussion of the TAPS Thermal Radiation Study		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Luke Marodi	Alaska LNG Project	Patrick McAlister	Alaska LNG Project
Michele Panico	Alaska LNG Project	Rick Noecker	Alaska LNG Project
Norm Scott	Alaska LNG Project	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	TAPS Thermal Radiation Study	A review of the thermal radiation study was conducted. Jet fires that do not impinge on TAPS are not a significant impact.
2	MLBV and CA Spacing Special Permit	MLBV and CA spacing were reviewed. Specific locations such as at Atigun Pass and other crossing types were discussed in more detail.
3	Special Permits and Environmental Information	Alaska LNG responded to PHMSA's comments on the SP draft environmental information documents. The second draft of the Resource Reports will contain SP information. Timing of actual SP filing was also discussed.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 14, 2016
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Project-developed Plans and Procedures		

ATTENDEES			
Name	Organization	Name	Organization
Caryn Rea	Alaska LNG Project	Norm Scott	Alaska LNG Project
Jack Everts	Alaska LNG Project	Sandra Barnett	Alaska LNG Project
Julio Daneri	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	July 21, 2016
<b>Sub-Project Name</b>	LNG Plant	<b>Location</b>	10613 West Sam Houston Pkwy N, Houston, TX 77064
<b>Meeting Subject</b>	Follow up from June 28th PHMSA Liquefaction Facility Meeting - potential future teleconference regarding data requirements for PHMSA's PiP analysis		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Buddy Secor	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)	Sandra Barnett	Alaska LNG Project
Dave Raaf	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Preparation for future discussions with PHMSA (and FERC)	A discussion of the potential approaches for future discussions to best address PiP suitability in the marine transfer area of the LNG Facility were reviewed. Alaska LNG is proposing to use PiP as containment without an underlying collection system.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MINUTES OF MEETING (MOM)

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## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	July 26, 2016
<b>Sub-Project Name</b>	Marine Terminal	<b>Location</b>	Calais I, 3201 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Overview Revised Sampling Analysis Plan with Agencies		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carrie Andrews		Jennifer Murrell	Alaska Department of Natural Resources (ADNR)
Chris Meade	United States Environmental Protection Agency (EPA)	Pranav Mehta	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Sandy Gibson	United States Army Corps of Engineers (USACE)

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>


MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 3, 2016
Sub-Project Name	Marine Terminal, Gas Pipeline	Location	301 E 83rd Ave, Anchorage, AK 99518
Meeting Subject	Introduce NMFS staff from Headquarters and Alaska Region to the concept of applying for Incidental Take Regulations for seals and whales in Cook Inlet		

ATTENDEES			
Name	Organization	Name	Organization
Caryn Rea	Alaska LNG Project	Justin Blank	
Greg Balogh	National Marine Fisheries Service (NMFS)	Shane Guan	NOAA NMFS Office Protected Resources
Jennifer Dupont	Alaska LNG Project	Sheyna Wisdom	Fairweather, LLC
Jennifer Porter		Steve Ellsworth	exp Energy Services
Jolie Harrison	National Marine Fisheries Service (NMFS)	Willow Hetrick	Fairweather, LLC
Judy Jacobs	National Marine Fisheries Service (NMFS)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 9, 2016
Sub-Project Name	Integrated (All Segments)	Location	Calais I, 3201 C St, Anchorage, AK 99503
Meeting Subject	Overview resource reports with ADOT&PF and discuss transportation infrastructure		

ATTENDEES			
Name	Organization	Name	Organization
Marc Luiken	Alaska Department of Transportation and Public Facilities (ADOTPF)	Pat Metcalf	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 10, 2016
Sub-Project Name	Integrated (All Segments)	Location	Calais I, 3201 C St, Anchorage, AK 99503
Meeting Subject	Update Commissioner Drygas on Resource Reports, Labor Studies		

ATTENDEES			
Name	Organization	Name	Organization
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Pat Metcalf	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## BRIEF SUMMARY OF MEETING

### Document Number:

USAL-PL-BAMOM-00-000008-000

Date: August 10, 2016

Time: 2:00 ~ 3:00 p.m. AK

Subject: Discussion of AKLNG APT Water Discharge Plan Submittal to ADEC

#### Attendees:

ADEC – Gerry Brown, Monica English, Natalie Wagner, Katrina Chambon, Jaime Grant

Fugro – Tom Posey, Jeriann Alexander, Rai Mehdiratta

AECOM: Paul Myerchin

AKLNG: Patrick Wong, Leilani Inman


Not Present: Kara Kusche (ADEC), Billy Oliver (AKLNG)

Item	ADEC Comments	AKLNG Response / Action
1	Target elevation of APT discharge water in Peterkin Quarry is not consistent in AKLNG documents submitted to ADNR and ADEC. Figure in the submittal to ADNR shows both 98 and 101-foot contours.	AKLNG will state the 98-foot elevation target in the cover letter for the supplemental information submittal.
2	The infiltration rate is very low when compared to values submitted by others to ADEC in the same region and type of soil (sand) at the discharge site.	AKLNG has adopted a lower bound value to be conservative. AKLNG will submit the percolation test results and any associated calculations.
3	The total area of inundation for the target 98-foot elevation is not provided; it is important for water volume balance evaluation.	AKLNG will provide the calculated total area; AKLNG has re-iterated that in the base plan the contingency is to stop the APT immediately if the discharge water level at the Peterkin Quarry reaches 98-foot contour for whatever reason.
4	There are no water quality test results for the 2 <sup>nd</sup> water bearing unit included in the submittal.	AKLNG will provide the test results; it is noted that the wells are AKLNG and third-party wells that are located at some distances away from APT wells.
5	Are water quality test results available from APT-1 and -2 wells that target 2 <sup>nd</sup> water bearing unit?	The wells have not been drilled; AKLNG is collecting water samples from all 4 OWs that have been drilled; test results will be provided to ADEC for review as the OWs are closer to APT-1 and -2 wells.
6	There are no water quality test results for the 3 <sup>rd</sup> water bearing unit included in the submittal.	There was no well drilled to the 3 <sup>rd</sup> unit except APT-3 well which is being drilled; water sample will be drawn and tested after well completion; results will be submitted to

		ADEC prior to pump test;
7	Is there additional information on TPW-2 well, such as depth, particular water bearing unit tapped, etc.	AKLNG could not find out well log so the depth of well screen is unknown.  <u>Post Meeting Note:</u> ADEC found in its database a well that might be TPW-2. Well log & well location aerial photo were emailed to AKLNG on August 12, 2016.
8	Ideally TPW-2 should be monitored and sampled during APT; ADEC recognizes that this is not feasible due to time lag of receiving test results from lab	AKLNG already plans to continue to monitor and sample TPW-2 at regular interval after APT (ADEC comments that it is a good idea).
9	ADEC takes note that all qualified labs are very busy and even expediting testing may still take time; ADEC will progress AKLNG application with that in mind while recognising AKLNG timing on the APT (first week of September).	AKLNG will continue to find a qualified lab that has capacity to expedite testing of water samples at a more reasonable timing.
10	The person responsible for reviewing AKLNG's submitted Peterkin Quarry oil stain removal plan is not available this week; review is expected next week	AKLNG is standing by.
11	ADEC has reviewed USGS Geologic Survey Report 96-466 regarding dissolved arsenic in the vicinity of the APT area. The document supports ADEC's perspective that arsenic tends to be variable. AKLNG should use this information in considering the risk of encountering arsenic above Maximum Contaminant Levels.	AKLNG will review the report.
12	ADEC reminds AKLNG that the plans need to be sealed by an Alaska PE.	AKLNG will continue to pursue.  <u>Post Meeting Note:</u> ADEC emailed AKLNG on August 12, 2016 a checklist showing the information that should be considered in the submittal for this disposal activity.
13	It will be helpful for AKLNG to document any "Stop-Action" or contingency plans in the event that samples taken at monitoring wells show water quality criteria exceedances or unanticipated results.	AKLNG will take the suggestion into consideration.
14	It is appropriate to provide specifications for the piping/hose materials (checklist provided to AKLNG), which should include flushing and tightness of the hoses.	AKLNG is assembling the requested info.
15	ADEC expressed concern that using analytical results from the OW assuming they are representative of the APT water may not be appropriate given arsenic in the area tends to be variable. This could	AKLNG noted that because the APT wells are to be installed just before the pump tests it does not provide adequate time to sample and obtain results prior to conducting the pump tests and the cost of expedited

	<p>potentially lead to a situation where AKLNG could be unknowingly not in compliant with water quality standards, render the upper zone as impaired for drinking water uses, impact a nearby private well (noting this well already exceeds water quality criteria for arsenic), and potentially become subject to enforcement actions or third-party legal actions.</p>	<p>samples coupled with crew downtime presents undue expenses. ADEC will research internal records regarding arsenic sources and consider AKLNG logistics during review of the plan submittal.</p>
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 15, 2016
Sub-Project Name		Location	8701 Gessner Rd, Houston, TX 77040
Meeting Subject	Continuation of technical progression of special permit applications		

ATTENDEES			
Name	Organization	Name	Organization
Rick Noecker	Alaska LNG Project	Steve Nanney	US Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA)

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 16, 2016
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Discuss compensatory mitigation strategy and options with ADNR-OPMP		

ATTENDEES			
Name	Organization	Name	Organization
Caryn Rea	Alaska LNG Project	Michiel Holley	exp Energy Services
Eric Febbo	Alaska LNG Project	Sara Longan	Alaska Department of Natural Resources (ADNR)
Julie McKim	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 17, 2016
<b>Sub-Project Name</b>	Marine Terminal, Gas Pipeline, Gas Treatment Plant	<b>Location</b>	222 W 7th Ave, Anchorage, AK 99513
<b>Meeting Subject</b>	Provide an overview of the Biological Assessment content to facilitate Draft 2 Resource Report 3 review		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Barb Mahoney	National Marine Fisheries Service (NMFS)	Jennifer Dupont	Alaska LNG Project
Caryn Rea	Alaska LNG Project	Judy Jacobs	National Marine Fisheries Service (NMFS)
Doug Limpinsel	National Marine Fisheries Service (NMFS)	Lynn Noel	
Greg Balogh	National Marine Fisheries Service (NMFS)	Steve Ellsworth	exp Energy Services

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 19, 2016
Sub-Project Name	Gas Pipeline	Location	Calais I, 3201 C St, Anchorage, AK 99503
Meeting Subject	Provide an update of Mainline Rev C changes in or adjacent to the DOT ROW.		

ATTENDEES			
Name	Organization	Name	Organization
Jack Everts	Alaska LNG Project	Michael Zhang	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Norm Scott	Alaska LNG Project
Julio Daneri	Alaska LNG Project	Patrick McAlister	
Luke Marodi	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 22, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	FERC led workshops with regulatory agency representatives to review comments on Resource Reports 1 through 10.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Caryn Rea	Alaska LNG Project	Julie McKim	Alaska LNG Project
Eric Febbo	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
James Martin	Federal Energy Regulatory Commission (FERC)	Mark Jennings	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Norm Scott	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
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1	Stakeholder Issue	<p>Questions/Comments:</p> <ul style="list-style-type: none"> <li>- Discontinue Permafrost &amp; Buried Pipeline</li> <li>- Borrow Sources</li> <li>- Highway safety &amp; traffic and tourism impacts</li> <li>- Construction season</li> <li>- Trails</li> <li>- Compressor Station locations</li> </ul>
2	Stakeholder Issue	Water Issues
3	Stakeholder Issue	Port Issues
4	Stakeholder Issue	<p>Waterbody crosses and buried pipe</p> <p>Timing and site specific water crossing</p>
5	Stakeholder Issue	<p>What are co-location options with other utilities, like the new fiber optic cable to the North Slope?</p> <p>What is the minimum separation distance?</p>
6	Stakeholder Issue	<p>While Valdez may not be the best location for an LNG facility, it may be the best route for a pipeline.</p> <p>There needs to be more discussion of the Valdez alternative and more justification for not going there.</p>


7	Stakeholder Issue	Land access issues – Federal land: Acquisition of Right of Way (ROW) on BLM land does not include timber. Will need a separate process for timber management. BLM noted that their regulations indicate that timber must be purchased separately so the Resource Report should include a discussion about the planning and sequencing of clearing vegetation and timber for construction. This can be negotiated with BLM. Important information indicated that at some point the project will need to identify where “merchantable timber” will be along the pipeline corridor. FERC pointed out the Denali National Park and Preserve (DNPP) alternative and noted that the NPS is in favor of it but there could be issues related to ANILCA.
8	Stakeholder Issue	BLM asked how the vegetation mapping was done. The project used a combination of aerial imagery to identify ground truth locations and prepare maps. More information is needed about the bases for project vegetation mapping e.g. proportion of desktop verses field verification.
9	Stakeholder Issue	Agency recommended making maximum use of the collection of TAPS archaeological information housed at the University of Alaska Fairbanks Museum. There needs to be a discussion on traditional cultural properties. It is time to begin discussions of Programmatic Agreement/Memorandum of Understanding. Need to discuss permanent and temporary impacts to subsistence as well as subsistence impacts in the Gates of the Arctic due to change to five mile buffer of the Dalton Highway. Access provided by the Pipeline ROW has positive and negative impacts to subsistence - depending on pre-existing use/access, location, users etc.
10	Stakeholder Issue	Who is drafting BLM's 810 analysis, BLM? FERC stated they have no experience. It is important for 810 to be done with the DEIS.
11	Stakeholder Issue	FERC-discussion around local/native jobs, opportunities, training, challenges. Acknowledged as important and would be addressed, especially during EIS.
12	Stakeholder Issue	It is likely that reclamation plans will be required for all material/borrow sites. The Project noted that the current Restoration Plan will not contain information on reclamation of material/borrow sites due to the uncertainty of their location at this time. Site specific plans will be prepared as these sites are identified. The Project also noted that the Restoration Plan to be submitted with the filing will be more than a table of contents. An agency attendee stated that there are many examples, particularly in the southern half of Alaska, where revegetation of gravel fill is naturally occurring. FERC asked the agencies for copies of their Best Management Practices for managing their lands, wildlife species, etc. BLM noted they have significant experience with reclamation of material/borrow sites and can share that information with FERC. Revegetation is a big issue. Agencies commend including jogs in the alignment of material site access roads to visually screen material sites from roadways. There is an attempt at describing the Least Environmentally Damaging Practicable Alternative (LEDPA) that sets the stage for further analysis; USACE will need to review and determine whether they agree.
13	Stakeholder Issue	There was discussion about the differences in product temperature (i.e. oil vs gas). More information is needed about blasting in permafrost and managing frozen debris lobes. Trenching on the North Slope is a concern.
14	Stakeholder Issue	What will geo-hazard plans be based on? Are geo hazard plans site specific or resource specific? How will slides on slopes along the proposed route be addressed? What are mitigation measures for volcanic eruptions? Ensure there is good exploration data for material sites, don't just rely on historic/cursory analysis. BLM will require geotechnical information for each proposed material site.

16	Stakeholder Issue	FERC asked the agencies to provide them with information about wildlife timing windows. Water withdrawal impacts to nesting birds along the Dalton Highway are a concern. FERC discussed the need to quantify the significance of impacts to terrestrial species. The dredge spoils are large such that agencies should be looking at the potential impacts to benthic invertebrates. The USFWS expressed interest in having the Pacific Walrus, currently a candidate species under the ESA, included within the BA. Agencies would like more discussion about the potential impacts to avian species as a result of flaring and elevated flairs specifically.
17	Stakeholder Issue	USFWS relayed a recent field trip to the North Slope and how a site with tundra sod removed and placed elsewhere was looking promising as far as restoration. To USFWS, harvesting sod still seems important for successful restoration. (Note that the project being referred to was implemented to address tundra damage from rolligons.) Resource Reports do not address forest health mitigation
19	Stakeholder Issue	How will fires be managed in more remote areas? It's normal to let them burn, will they need to be managed due to the pipeline?
20	Stakeholder Issue	Lighting discussion, BMP, Tourism (winter)
21	Stakeholder Issue	Access issues; campgrounds, public use, scenic areas, noise

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date



	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 22, 2016
Sub-Project Name	Integrated (All Segments)	Location	101 12th Ave, Fairbanks, AK 99701
Meeting Subject	Obtain early feedback from the USFWS on the Biological Assessment, Potential Mitigation and Monitoring Measures		

ATTENDEES			
Name	Organization	Name	Organization
Bob Henszey	United States Fish and Wildlife Service (USFWS)	Steve Ellsworth	exp Energy Services
Caryn Rea	Alaska LNG Project	Ted Swem	United States Fish and Wildlife Service (USFWS)
Kaithlyn Ott	United States Fish and Wildlife Service (USFWS)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 23, 2016
Sub-Project Name	LNG Plant	Location	Washington, DC
Meeting Subject	Review geotech and seismic data with FERC for the Liquefaction Facility		

ATTENDEES			
Name	Organization	Name	Organization
Abhishek Shethji	Fugro Pelagos	James Glaze	Federal Energy Regulatory Commission (FERC)
Adel Younan		Jeff Raun	Alaska LNG Project
Anthony Rana	Federal Energy Regulatory Commission (FERC)	Kul Bushan	
Billy Oliver	Alaska LNG Project	Patrick Wong	Alaska LNG Project
Bob Bachman	Federal Energy Regulatory Commission (FERC)	Pranav Mehta	Alaska LNG Project
David Bergeron	Alaska LNG Project	Sandra Barnett	Alaska LNG Project

DISTRIBUTION			
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AGENDA ITEMS		
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 24, 2016
<b>Sub-Project Name</b>	Marine Terminal, Gas Pipeline	<b>Location</b>	301 E 83rd Ave, Anchorage, AK 99518
<b>Meeting Subject</b>	Provide an overview of construction/execution of pipeline across Cook Inlet to NMFS staff; initiate dialogue about potential monitoring and mitigation procedures		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Barb Mahoney	National Marine Fisheries Service (NMFS)	Justin Blank	
Caryn Rea	Alaska LNG Project	Norm Scott	Alaska LNG Project
Dale Youngkin	NOAA NMFS Office Protected Resources	Prasad Anumolu	IntecSea
Greg Balogh	National Marine Fisheries Service (NMFS)	Ryan Chladek	Alaska LNG Project
Jana Dasilva Lage		Shane Guan	NOAA NMFS Office Protected Resources
Jennifer Dupont	Alaska LNG Project	Sheyna Wisdom	Fairweather, LLC
Jolie Harrison	National Marine Fisheries Service (NMFS)	Steve Ellsworth	exp Energy Services
Judy Jacobs	National Marine Fisheries Service (NMFS)	Willow Hetrick	Fairweather, LLC

## DISTRIBUTION

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## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 25, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	FERC led workshops with regulatory agency representatives to review comments on Resource Reports 1 through 10. Alaska LNG representatives provided input concerning project details.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Caryn Rea	Alaska LNG Project	Julie McKim	Alaska LNG Project
Eric Febbo	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
James Martin	Federal Energy Regulatory Commission (FERC)	Mark Jennings	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Norm Scott	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Discussed: <ul style="list-style-type: none"><li>- Gravel</li><li>- Ice roads</li><li>- Above vs. below ground pipeline</li><li>- Access roads</li><li>- Abandonment procedures</li></ul>
2	Stakeholder Issue	USACE asked if Point Thomson Gas Expansion included in the Area of Potential Effect (APE).
3	Stakeholder Issue	Discussed the proposed groundwater usage at the LNG facility.
4	Stakeholder Issue	Agencies would like to see more discussion and explanation for the selected water body crossing and stream crossing locations, with an explanation of why the crossings are in those locations.
5	Stakeholder Issue	FERC does not find that the Denali National Park alternative has been demonstrated as an impracticable alternative.
6	Stakeholder Issue	More discussion is needed about a Valdez option.

7

Stakeholder Issue

## Discussed:

- Cultural resources and traditional knowledge
- Archeological districts and determination of eligibility
- APE, SHPO liked use of cultural resource advisors
- Trails

8

Stakeholder Issue

Health Services – The HIA seems to overlap with the transportation study. There are huge geographic gaps in emergency response coverage currently. Where will additional emergency response (ES) coverage be addressed. Are impact payments expected to pay for the additional emergency responder resources needed?

## Discussed:

- Health Impact assessment and emergency response needs
- Safety
- Tourism Impacts

9	Stakeholder Issue	<p>Discussed:</p> <ul style="list-style-type: none"><li>- Gravel</li><li>- Ballast Water</li><li>- Mixing Zones and BMP's</li><li>- Restoration Planning and Invasive Species</li><li>- Slope Stability and Construction techniques</li><li>- Noise and Subsistence</li></ul>
10	Stakeholder Issue	Blasting plan needs to address blasting in permafrost.
11	Stakeholder Issue	<p>Attendees said they would like to see a discussion of alternatives to placing so much gravel fill in wetlands. The USACE suggested that gravel placed should be removed once it has filled its need if the project is calling it temporary. EPA questioned which Functional Assessments would be accepted by the Corps for permitting. The Corps has said that an FA based on the HGM method would not be accepted. The Corps said that they are reviewing our current proposal which is a combination of methods. EPA would like more information on the FA once we agree with the Corps the appropriate method. EPA and USACE will discuss to ensure they can approve the project's FA method. USACE is currently contemplating the 51,600 acres of wetland impacts, the 17,800 stream crossings and the 5,366 acres of operational impacts. How can wetland impacts be reduced? USACE ask, can the gravel fill be pulled back, even if only partially, and topsoil placed on surface to promote revegetation? How does the restoration plan address restoration of gravel fill? If gravel fill is required, how can use of gravel fill be mitigated? FERC noted that the Project must make sure that the USACE requirements for restoration are met. (The Project has reached out to the USACE already on this, has another meeting scheduled for the following week and then will pull in additional agency representatives to the discussion about performance criteria.)</p>

12	Stakeholder Issue	<p>Discussed:</p> <ul style="list-style-type: none"><li>- Cook Inlet Beluga whales and habitat</li><li>- Biological Assessment and Ringed and Bearded seals</li><li>- Restoration of stream crossings</li><li>- Fish movement and water</li></ul>
13	Stakeholder Issue	<p>FERC is sensitive to the fact that construction duration is long-term. Hence, interest in 24-hour construction activity, dust, minor source NSR permits for construction etc.</p>
14	Stakeholder Issue	<p>Discussed:</p> <ul style="list-style-type: none"><li>- Strain Based Design (pipeline)</li><li>- Soils and erosion</li></ul>
15	Stakeholder Issue	<p>Discussed:</p> <ul style="list-style-type: none"><li>- Potential for ground water contamination</li><li>- Water Quality and discharges</li></ul>
16	Stakeholder Issue	<p>Discussed:</p> <ul style="list-style-type: none"><li>- Dredged material disposal plan</li><li>- Dredging and sediment plumes</li></ul>

18 Stakeholder Issue

Discuss:

- Right of Way Access
- Buffers (screening)
- Visual Concerns
- Clearing Needs
- Induced Access
- Trails

19 Stakeholder Issue

Concern about potential issues at Gates of the Arctic National Park. Issues may include increased access, visitation, overflights, noise, light, etc. Also Denali Park Route Alternative If the pipeline is constructed through Denali Park, NPS would like to see the right-of-way incorporated into a trails plan.

## ACTION ITEMS


Item

Action Items/Topics

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	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 26, 2016
Sub-Project Name	Gas Pipeline	Location	Anchorage, AK
Meeting Subject	Discuss various follow up items with BLM related to Resource Reports, Reimbursable Agreement, and ROW Grant		

ATTENDEES			
Name	Organization	Name	Organization
David Sinclair	Paragon Partners Ltd	Julie McKim	Alaska LNG Project
Earle Williams	BLM, Alaska State Office	Matthew Horneman	Alaska LNG Project
Eric Febbo	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 29, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	JL Tower, 3800 Centerpoint Dr, Anchorage, AK 99503
<b>Meeting Subject</b>	Provide an overview of the Project impacts and schedule, discuss outstanding documents requiring review or concurrence, and discuss permitting strategy and application		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Caryn Rea	Alaska LNG Project	Mary Romero	United States Army Corps of Engineers (USACE)
Janet Kidd	ABR Environmental Research & Services	Matthew Horneman	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Michelle Erickson	exp Energy Services
Julie McKim	Alaska LNG Project	Michiel Holley	exp Energy Services
Malcolm Salway	HDR	Norm Scott	Alaska LNG Project
Mark Dalton	HDR	Sandy Gibson	United States Army Corps of Engineers (USACE)

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 1, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Robert B. Atwood Building, 550 W 7th Ave, Anchorage, AK 99501
<b>Meeting Subject</b>	Discussion of Alaska LNG Project's approach to Section 106 and mitigating adverse effects to NRHP-eligible sites		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Caryn Rea	Alaska LNG Project	Richard Vanderhoek	Alaska Department of Natural Resources (ADNR)
Mark Jennings	Alaska LNG Project	Shina Duvall	Alaska Department of Natural Resources (ADNR)
Ned Gaines	AECOM		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Meeting with DNR - Office of History and Archaeology/State Historic Preservation Office (SHPO)	On Thursday September 1, 2016, representatives of the Alaska LNG Project (Caryn Rea, Mark Jennings and Ned Gaines) met with representatives of DNR's Office of History and Archaeology/State Historic Preservation Office (Shina Duvall and Richard VanderHoek)) to discuss the Section 106 Process and mitigation strategies for potential adverse effects to NRHP-eligible sites within the Project footprint. To date, the Project has identified 58 NR-eligible or recommended sites within the Project footprint. Phase One surveys have been completed for approximately 90 percent of the Rev C corridor. Shina Duvall indicated that regulations do not specifically require that 100 percent of lands in the project footprint must be surveyed. Regarding the Section 106 process, Ms. Duval indicated that any treatment plans for NR-eligible sites are not required until after the FERC Application. Treatment plans are premature at this point. Data recovery is a typical method for mitigating adverse effects to historic properties, and the percentage of each site excavated will be determined on a site by site basis. The State may be open to creative mitigation where appropriate, such as horizontal directional drilling beneath sites or developing regional history/prehistoric profiles, etc. Again, this will be determined on a site by site basis. The State will likely desire a Programmatic Agreement (PA) as the appropriate tool for managing cultural resources on a project of this magnitude and complexity. FERC will not broach the topic of PA or MOA until they receive the final application. Still needed at this point is a determination of the direct and indirect area of potential effect (APE). The State recommends the evaluation of potential Historic Districts in the Project footprint. The identification of potential historic districts sometimes comes out during consultation. Guidance on Traditional Cultural Landscapes and Traditional Cultural Properties is currently being revised. In closing, the State indicated their appreciation of the Project update and said they desire regular coordination as the Project progresses.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 15, 2016
<b>Sub-Project Name</b>	Marine Terminal	<b>Location</b>	Silver Spring Metro Center I, 1315 East-West Hwy, Silver Spring, MD 20910
<b>Meeting Subject</b>	Discuss approach for developing 'exposure' (to sound) numbers and beluga whale density estimates in support of Incidental Take Regulations		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Caryn Rea	Alaska LNG Project	Sheyna Wisdom	Fairweather, LLC
Dale Youngkin	NOAA NMFS Office Protected Resources	Willow Hetrick	Fairweather, LLC
Shane Guan	NOAA NMFS Office Protected Resources		

## DISTRIBUTION

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## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

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## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 23, 2016
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	44669 Sterling Hwy, Soldotna, AK 99669
<b>Meeting Subject</b>	Discuss Kenai Spur Highway relocation effort with Kenai US Army Corps of Engineers Staff; align on NEPA/404 issues		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carol Snead	HDR	Mark Dalton	HDR
Julie McKim	Alaska LNG Project	Matthew Horneman	Alaska LNG Project
Katie McCafferty	United States Army Corps of Engineers (USACE)	Sandy Gibson	United States Army Corps of Engineers (USACE)
Malcolm Salway	HDR		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Overview of KSH Relocation Project / Timing with overall Alaska LNG Project	• Background: Mark D. and Mac S. met with USACE (Sandy Gibson and Mary Romero) and AKLNG prior to this meeting to discuss the Kenai Spur Highway (KSH) Relocation relative to the AKLNG project and the 2015 feasibility study. After hiatus the project is refining alignments and planning how this road might be advanced in a potential 404 context. • Issue: KSH is a state facility and part of the National Highway System. It has to be realigned before any work will take place at the AKLNG site. It is an “early works” component that has to be completed before the AKLNG site can be developed.
2	Role of the FERC in the KSH Relocation Project	• Project falls outside of FERC EIS process. It is considered “connected but non-jurisdictional”. It’s connected, but FERC doesn’t have jurisdiction because it is a transportation facility, not a pipeline or LNG plant. In NEPA/Regulatory world, it is almost like an orphan. It is discussed in the EIS as a reasonably foreseeable action. o Technically, relocation of the road would need to take place prior to the facility being built. If the road were realigned and replaced and the facility was never built then it wouldn’t be connected to the pipeline permit. It could be permitted outside the AKLNG, which would put it in the USACE Kenai office.

3	KSH alternatives analysis and constraints (ROW, wetlands, etc.)	<ul style="list-style-type: none"><li>• The land for the AKLNG plant has all been acquired, to date, through voluntary acquisitions.</li><li>• HDR's scope was framed on basis of previous arrangement when there were four partners. Project is in a custody transition.</li><li>• Presumption is to limit acquisitions, limit impacts, and avoid wetlands. Trying to identify the 2-3 best alignments with the least amount of environmental and ROW impacts.</li><li>• Opportunity in the next month to engage the regulatory authorities and FHWA to get a clearer understanding of how this would actually work from a regulatory perspective. How the processes ought to be setup plus the URA.</li><li>• Project is currently at ~660 acres acquired (total site acquisition of 800 acres / 1000 acres temporarily for construction).</li><li>• AKLNG has spoken with various security agencies that had their opinions on marine and highway operations. All opinions have recommended that traffic be segregated away from AKLNG operations.</li><li>• Key point – typically a project like this is done on behalf of either the Borough or DOT&amp;PF. Engaging DOT&amp;PF and the FHWA to make sure the new facility meets their design criteria, is acceptable from a traffic perspective and accommodates traffic growth.</li><li>• The mayor and others are interested in the project as they see opportunities for the community to benefit from the relocation. They are concerned about the bluff erosion (near term liability for the highway) and providing separation between the rural/residential areas (to the east) and industrial traffic in the corridor. This goes with the notion of independent utility.</li><li>• This facility is part of the National Highway System (NHS) because it provides connectivity back into Kenai, Soldotna and the Sterling Highway as well as to the Offshore Systems Kenai facility (NHS facility terminus). The State considers this an intermodal connection from a surface transportation mode to a marine mode.</li></ul>
4	Discussion of potential scenarios of WOUS impacts for the KSH Project	<ul style="list-style-type: none"><li>• Looked at the maps and identified pinch points. These are areas where the alignments do not go through wetlands.</li></ul>

5

Discussion of Kenai Peninsula  
non-jurisdictional wetlands

Some of the alternatives are located in close proximity to wetlands, but they could be potentially non-jurisdictional wetlands. • Last year a local landowner offered an alternative route. He provided feedback to the governor and the Borough. Route will impact wetlands, but AKLNG agreed to evaluate it. • Based on the alternatives drawn so far, what is the possible maximum amount of wetlands that would be affected? None of the alternatives currently impact wetlands or waters of the U.S. • HDR conducted a feasibility study and placed all the NEPA topics on a map. Looked at all issues, including wetlands, bald eagle nest sites, hazmat materials, traffic, land use, geotech (bluff instability), surface and ground water; trying to get the whole suite of issues on a map to identify viable corridors. Identified wetlands on the map and designated the area for field crews to go out and conduct sampling. Field-verified wetlands are designated in blue on the Corridor Map. Using the primary risk factors came up with these primary corridors and they avoid wetlands. • What is Corps experience with mitigation; what is the practice on the Kenai? Work on a lot nationwide Permits 95 percent of permits issued are for impacts that are less than half an acre. USACE probably required compensatory mitigation on less than 10 projects. Decision on compensatory mitigation (whether a nationwide permit or an individual permit) comes down to resources (how common, what function it provides for both Cook Inlet as well as the region). One option for compensatory mitigation includes paying a fee to The Conservation Fund. TCF is the only In-Lieu Fee Program servicing the area. There are no mitigation banks on Kenai Peninsula.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date
1	Prepare the logic and justification for the KSH Project's independent utility	Malcolm Salway	10/31/2016

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 29, 2016
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	4111 Aviation Ave, Anchorage, AK 99502
<b>Meeting Subject</b>	Discuss Uniform Relocation Act applicability and acquisition planning		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Dave Kemp	ADT&PF, Highways and Public Facilities	Mark Dalton	HDR
David Bloom	Alaska Department of Transportation and Public Facilities (ADOTPF)	Matt Stone	HDR
Frank Richards	ADT&PF, Highways and Public Facilities	Matthew Horneman	Alaska LNG Project
Fritz Krusen	AGDC	Mike Noonan	HDR
Jeff Raun	Alaska LNG Project	Sasha Prewitt	
Joel St. Aubin	Alaska Department of Transportation and Public Facilities (ADOTPF)		

## DISTRIBUTION

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## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



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MEETING DETAILS			
<b>Sub-Project Name</b>	Liquefaction Team	<b>Date of Meeting</b>	December 16, 2016
<b>Meeting Subject</b>	Alaska LNG Liquefaction Team Year End Update to PHMSA	<b>Location</b>	PHMSA Headquarters, Washington. D.C.

ATTENDEES			
Attended By	Organization	Attended By	Organization
Jeffrey Wiese (JW)	PHMSA	Sandra Barnett (SB)	Alaska LNG
Alan Mayberry (AM)	PHMSA	Michael Britton (MB)	Alaska LNG
Kenneth Lee (KL)	PHMSA	David Bergeron (DB)	Alaska LNG
Buddy Secor (BS)	PHMSA	Susan Carter (SC)	Exxonmobil
Marcelo Pabelo (MP)	BP	Kevin Avery (KA)	Conoco Philips

DISTRIBUTION			
Name	Organization	Name	Organization
Sandra Barnett	Alaska LNG		

AGENDA ITEMS			
Item	Agenda Item(s)	Leader	Time
1	Safety Moment	Michael Britton	
2	Slide Deck Review (USAL-PL-SAPPT-00-000008-000)	Michael Britton	
3	Slide Deck Review (USAL-PL-SAPPT-00-000008-000)	David Bergeron	

DISCUSSION			
1	Safety Moment	Michael Britton	

**DISCUSSION**
Slide 1-5

MB- 2.5 bcf/d of gas –This is a simpler plant that what we are used to building internationally

KL- Where is H2S removal done

MB- At the GTP

JW- Where exactly is the plant located on the slide

MB - Inside the green lines on the slide 5

Slide 7

The thick green line is the utility corridor and the MOF has a single trestle jetty

AM -How big is the parcel?

MB- About 900 acres and covers facilities, buffer areas and lay down areas for construction

Slide 8 & 9

MOF location set to minimize need for dredging, 4-5 tugs at the SVF to support the LNGC's which will also do ice breaking, may be able to use tugs out of Homer so reconsidering this option

JW –Is the rendering not accurate (of the LNG facility)?

MB - Topographically it is ok, but can't see the cliff from this view

MB -Other MOF options are under consideration

JW- Are there other roads as well?

MB- Yes, and there will be some road upgrades

AM - Aren't there platforms in CI as well

MB- Further up the coast, yes

MB- There will be an integrated administrative complex to minimize winter occupational exposure also

wanted to minimize use of elevated flares (because of neighbors) so going with ground flares even though they are a bit more expensive, but they will minimize noise and be less visible to the neighbors

2

Michael Britton

**DISCUSSION**

Slide 10

MH110 under consideration

Slide 11 Air Emissions Modelling Update

Air quality impacts – emissions from Agrium and Tesoro included, and no air quality (AQ) issues noted.

With new LNGC's no issues, but some (AQ) excursions with older carriers and we are trying to figure out how to address

MB-vessels of opportunity will likely be required to come to the facility in the summer when some of the Project's regular LNGC's are not available due to vessel inspection requirement every 2.5 years.

AM- Any plans to re-gasify to an LDC?

DB-No

AM- Will the facility be selling a winter service for peak shaving etc.

Project - No

Slide 12 LNG Storage Tanks

240,000 m<sup>3</sup> base case with concrete tank as an option  
JW-Current edition or currently incorporated edition?

DB-Current edition

JW-We (PHMSA) have plans to work with NFPA to work out differences

DB- During next 3 months we hope to have a recommendation for tanks

JW-Known drawbacks? There are always tradeoffs

MB- Cost competitiveness is based on changing out materials but tank technology has been certified by DNV

JW - So drawback is not a lot of practical experience

DB - Foundations- more seismic isolators required (6' bearing pads)

JW- Seismic issues- are pads sufficient?

MB-yes-deep geophysical data- 85 boreholes onshore and 25 offshore completed

KL-Both are new so technical staff will need a thorough review, if ground moves, does the tank slide underneath?

DB-Yes

3

David Bergeron

Slide 13 Regulatory Siting Requirements

Thermal radiation –need to move tanks about 50 feet

# DISCUSSION

## Slide 13 Regulatory Siting Requirements

Thermal radiation –need to move tanks about 50 feet further apart, no issues to general public

Vapor dispersion- contained within layout of the plant, most volatile fluid onsite is propane

As drivers are finalized, models will be rerun to finalize impacts

KL-Technical staff will review models and will be reviewing P&IDs etc. to ensure that all is done correctly.

JW-PHMSA wants to engage with the Project on these issues

BS-PHMSA is ready and waiting but we have not rec'd anything from the Project

## Slide PIP Overview

DB- PIP is base case and have discussed with the USCG

JW-interagency LNG coordination group. PHMSA are sponsors

AM-What would be a credible spill scenario?

JW-PHMSA has tried to move off of absolute worst case some time ago

MB-FERC and PHMSA inconsistencies

KL-Safety equivalency-a better way to go than Special Permits for LNG

AM-No LNG SP's have been done-all handled through safety equivalency

DB- A growing disconnect between engineering program and regulatory program

RM- There has been more frequent pipeline engagements with PHMSA , there is opportunity for more on the LNG side

JW and AM- Don't go by what other more recent applicants experience have been because PHMSA has learned much from recent LNG applicants.

ALASKA LNG PROJECT	DOCKET No. CP17-____-000 RESOURCE REPORT No. 1 APPENDIX D – SUMMARY OF PUBLIC, AGENCY, AND STAKEHOLDER ENGAGEMENT AND CORRESPONDENCE	DOC No: USAI-PE-SRREG-00- 000001-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	

## ATTACHMENT D.3    STAKEHOLDER ENGAGEMENT DOCUMENTATION

# Alaska LNG

## OPEN HOUSE NOTES

<b>Number:</b>	<b>MM-AKE-URAK-EDHO-14-0037</b>	<b>Meeting Name:</b>	Nuiqsut Open House Public Meeting
<b>Date of Meeting:</b>	1/13/2015, 6-8pm	<b>Total Signed-In Attendees:</b>	50

### INDIVIDUAL ATTENDEES NOTED BY OPEN HOUSE STAFF:

<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
Isaac Nukapigak	Kuukpik Corporation President		

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>
1			

### KEY ISSUES:

1	<b>Project design/description – general:</b> Would the pipeline be buried? What kind of material would be used for the pipeline? What is the life of the pipeline? Is the pipeline breakable? Would there be corrosion inhibitors with the pipeline? What is the design life?
2	<b>Project design/description – cost:</b> Why did the State of Alaska support lowering the taxes the producers must pay? What will the State of Alaska do about LNG taxation? Any estimates on the cost of the gas? Are the partners all willing to commit the funds necessary to build this? Will the State have tap into the permanent fund to help pay their share? The State of Alaska is losing oil revenue; I don't want the State of Alaska to start tapping into our PFD fund. How will the government finance its 25 percent share of the project?
3	<b>Project design/description – regulatory:</b> Will this project be following the NEPA process? Who leads the regulatory process for the project? Is the EPA involved? How do the stakeholders perceive the state?
4	<b>Project location – general:</b> Where would the pipeline be located? NW and SW Alaska need gas too, not just the Mat-Su. Recommend shifting the pipeline west so that Nome, Kotzebue, Bethel, and Anaktuvuk Pass, and eastern NSB villages can get gas. The State of Alaska should open up the western side of Alaska and include Bethel, Nome, and Red Dog Mine. These communities would greatly benefit from our natural resources. Consider having the LNG plant in Nome and help support the NSB with LNG taxation.
5	<b>Affected communities – North Slope:</b> Concern over communities near the project, including combined impacts of 40 years of oil production. Land use planning is important. Planning is important for infrastructure projects associated with project revenue streams and appropriate allocation to communities in the North Slope. How would North Slope villages benefit? Take care of brothers and sisters in the NSB.
6	<b>Land access – general:</b> What is the ROW? Is it near current ROWs? Is it in the road ROW?
7	<b>Land access – Native Allotments:</b> Questions on the corridor crossing native allotments.
8	<b>Local gas supplies, off-take points – general:</b> We are reluctant to support the development of the LNG if our other villages in the NSB will not have the opportunity to have natural gas in their community. Our villages are struggling financially with the high cost of heating oil compared to gas.
9	<b>Regulatory – state:</b> Is Governor Walker supportive of this project? Where does the State of Alaska stand on this project? Make available copies of the MAGP committee's interim report to the governor.
10	<b>Environmental effects – geotechnical risks, seismic:</b> Concern over earthquake design.
11	<b>Environmental effects – fish and wildlife:</b> Development/construction of the pipeline will deeply affect the porcupine caribou herd, especially during herd migration periods. Prefer buried pipeline because of caribou crossings. Concern with what a gas leak would do to flora and fauna.

## Nuiqsut

12	<b>Environmental effects – socioeconomic:</b> When will the social impacts affecting the communities be addressed? Severe social impact. Worried about gas leaks affecting way of life.
13	<b>Environmental effects – subsistence:</b> High impact on subsistence. There are 40 years of data collected already—will this data be shared to help lessen the impacts to our subsistence lifestyle? How will subsistence impacts be addressed? How will the State of Alaska get around a conflict of interest after lowering the tax rate for the producers yet promising the affected communities to protect their subsistence way of life?
14	<b>Environmental effects – pipeline safety:</b> Safety issues. Pipeline safety—would it be double or single wall, plastic or steel pipe?
15	<b>Environmental effects – health:</b> There are currently three cases of leukemia in Nuiqsut. Will there be a proper health impact study? The NEPA process has not worked to address the health & social impacts in the communities. The SEIS has a small section that talks about health risks; that section says were doing ok but we are not. Health issues. Cancer = projects. How will health impacts be addressed? Concern over understanding and management of health impacts on subsistence.
16	<b>Environmental effects – fire:</b> Concern about flaring. Would this project help stop the flaring from facilities to the east of Nuiqsut?
<b>DISCUSSION ITEMS:</b>	

# Alaska LNG

## OPEN HOUSE NOTES

<b>Number:</b>	<b>USAI-UR-BAMOM-00-000002-000</b>	<b>Meeting Name:</b>	Kaktovik Open House Public Meeting
<b>Date of Meeting:</b>	1/14/2015, 6-8pm	<b>Total Signed-In Attendees:</b>	31

### INDIVIDUAL ATTENDEES NOTED BY OPEN HOUSE STAFF:

<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
Nora Jane Burns	Mayor of Kaktovik, NSB Mayor's Office Deputy Assistant and recently named to the NSB Port Authority Board of Directors	Edward Rexford, Sr.	President of Native Village of Kaktovik

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>

### KEY ISSUES:

1	<b>Project design/description – general:</b> Would the pipeline be above or below ground? What is the projected life of the project?
2	<b>Project location – general:</b> Where would the gas be shipped, and why not to the Lower 48? Discussion on where the gas would be sold, domestically or exported. Where would the GTP be located?
3	<b>Affected communities – North Slope:</b> Comment on high costs of energy, high costs of living, and shorting of housing for local resident in Kaktovik. Would the modules be delivered overland? There should be an all-season, accessible road built.
4	<b>Land access – Native allotments:</b> Comment – there are native allotments in the Point Thomson area.
5	<b>Local gas supplies, off-take points – general:</b> Why is the gas not routed to Kaktovik? There should be a spur line to Kaktovik. There should be a gas off-take point in Kaktovik.
6	<b>Local gas supplies, off-take points – decision process:</b> Operational questions on who makes the decisions on the pipeline.
7	<b>Field studies – general:</b> What are the types of field studies?
8	<b>Field studies – physical sciences:</b> How deep will the test trenches be? Will the test trenches be reclaimed?
9	<b>Local content – employment general:</b> How do I find out about employment opportunities?
10	<b>Local content – contracting general:</b> Question from a Village Corporation representative about employment opportunities which include fuel delivery and construction jobs.
11	<b>Environmental effects – physical general:</b> Would the coastlines be altered? Concern about ripple effects if they are altered. The barrier islands have been changing. Is that caused by human activity?
12	<b>Environmental effects – permafrost degradation:</b> Would it cause permafrost melt sinking? How would it affect the tundra?
13	<b>Environmental effects – fish and wildlife impacts:</b> Concern on effects to fish populations.
14	<b>Environmental effects – subsistence impacts:</b> Sealifts should not interfere with the spring and fall whaling.
15	<b>Environmental effects – dredging:</b> Would the project involve sealifts and dredging in the West Dock area? Concern about erosion effects from dredging in the West Dock area.



# Alaska LNG

## OPEN HOUSE NOTES

<b>Number:</b>	<b>USAI-UR-BAMOM-00-000003-000</b>	<b>Meeting Name:</b>	Anaktuvuk Pass Open House
<b>Date of Meeting:</b>	1/29/2015, 12-2pm	<b>Total Signed-In Attendees:</b>	48

### INDIVIDUAL ATTENDEES NOTED BY OPEN HOUSE STAFF:

<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
Justus Mekiana	Mayor of Anaktuvuk Pass	Della Tagarook	North Slope Borough Village Liaison
Raymond Paneok	ASRC board member for Anaktuvuk Pass	Jeff Parks	Alaska Dept. of Fish and Game

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>
1			

### KEY ISSUES:

1	<b>Project design/description – general:</b> Would the pipeline be above or below ground? General questions on what Alaska LNG staff would do. How many compressor stations would there be?
2	<b>Project design/description – logistics:</b> Questions on project execution, including the location of project camps and gravel sources.
3	<b>Project design/description – regulatory:</b> Concerned about the EIS being too big and complicated.
4	<b>Land access – Native allotments:</b> Are any native allotments affected?
5	<b>Local gas supplies, off-take points – general:</b> Where would the off-take points be located? Would Anaktuvuk Pass get access to gas? Comment on high cost of diesel and electric for home heating.
6	<b>Local gas supplies, off-take points – decision making process:</b> Who is making the decisions about bringing gas to communities? Will Anaktuvuk Pass get gas?
7	<b>Stakeholder engagement – general:</b> Appreciative comments of the Alaska LNG team's visit to the community from elders and residents. January is a good time to visit. March is also good before the subsistence hunting season. An elder stated support for the project.
8	<b>Local content – employment general:</b> Questions on jobs. How will job opportunities be maximized?
9	<b>Local content – community investment:</b> Want a gas line and a road.
10	<b>Environmental effects – subsistence:</b> Concerned about impacts to caribou as they are an important part of the community's culture and diet. Concerned about impacts to traditional use areas. Question about impacts to subsistence from construction areas. Comments voiced about sport hunters affecting caribou herds—stated sport hunters shoot leading caribou and scatter the herd; commented on smaller caribou herds from sport hunters accessing the area by the Haul Road, Super Cub aircraft, and from camps north and northwest of the Anaktuvuk Pass.
11	<b>Environmental effects – cumulative impacts:</b> Comment/concern that the way of life is changing as noted by the local elders.

# Alaska LNG

## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="checked" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG	
	<b>Meeting Name:</b>	Native Village of Eklutna Annual Meeting	
	<b>Date of Meeting:</b>	January 31, 2015	
	<b>Number:</b>		

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Lisa Gray	Alaska LNG	Jason Chilligan	Native Village of Eklutna
Mark Jennings	Alaska LNG	Laura Chilligan	Native Village of Eklutna
Rosetta Alcantra	Alaska LNG	Rose Chilligan	Native Village of Eklutna
		Jeremy Reamer	Native Village of Eklutna
		Christina VanHorn	Native Village of Eklutna
		Richard VanHorn	Native Village of Eklutna
		Robbin Cooks	Native Village of Eklutna
		Marlene Johnson	Native Village of Eklutna
		Tresid Coleman	Native Village of Eklutna
		Shannon Whorley	Native Village of Eklutna
		Ellen Leisner	Native Village of Eklutna
		Adam Leggett	Native Village of Eklutna
		Lewis Stephan	Native Village of Eklutna
		Melissa Hurt	Native Village of Eklutna
		Irene McMillan	Native Village of Eklutna
		Shirley Crong	Native Village of Eklutna

AGENDA ITEMS:			
<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	General project overview presentation	Lisa Gray	

ACTION ITEMS:			
<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>

KEY ISSUES:	
1	<b>Local content – employment general:</b> The Native Village of Eklutna is interested in potential job opportunities.

DISCUSSION ITEMS:	
1	The annual meeting was attended primarily by tribal members of the Native Village of Eklutna. Approximately 70 people attended the meeting, and it was held at the King's Way church in Eagle River. The focus was on the annual voting for officers for the council and there were presentations provided by staff on various projects. Other participants in the meeting included the Alaska Native Tribal Health Consortia (ANTHC) and Alaska LNG.
2	The sign in sheet reflects those attendees interested in receiving information on the project (e.g. future newsletters and emails about meetings).



## MINUTES OF MEETING (MOM)

Project Name:	Alaska LNG Project Update
Meeting Type:	Meeting/Workshop
Meeting Subject:	Alaska LNG Project Update
Date of Meeting:	02/25/2015
Document Control Number:	

<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Michael Nelson	Alaska LNG Project
Mike Munger	Cook Inlet Regional Citizens Advisory Council (CIRCAC)


<b>AGENDA ITEMS:</b>		
Item	Agenda Item	Description
1	Alaska LNG Update with CIRCAC	Michael Nelson met with Mike Munger to provide a project update. Mike M stated that many CIRCAC members support the project and welcome continued engagement. Mike stated that members who were also landowners in the Nikiski area spoke favorably of their dealings with the Project land agents. Mike suggested contacting the CIRCAC staff scientist for access to Cook Inlet biological/marine studies.

<b>ACTION ITEMS:</b>			
Item	Action Items/Topics	Assigned To	Due Date




## MINUTES OF MEETING (MOM)

Project Name:	Project Update to Bering Straits Native Corporation Board of Directors		
Meeting Type:	Meeting/Workshop		
Meeting Subject:	Project Update to Bering Straits Native Corporation Board of Directors		
Date of Meeting:	02/26/2015		
Document Control Number:	USAI-PE-SAMOM-00-000073-000		
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	
Gail Schubert	Bering Straits Native Corporation		
Kim Fox	Alaska LNG Project		
Michael Nelson	Alaska LNG Project		
<b>AGENDA ITEMS:</b>			
<b>Item</b>	<b>Agenda Item</b>	<b>Description</b>	
1	Workforce development		
2	Access to gas for Alaskans	Will natural gas be affordable for rural Alaskans?	
<b>ACTION ITEMS:</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	INTEGRATED LOGISTIC TEAM	USAI-LL-BAMOM-00-000004-000 3-MAR-2015 REVISION: 0
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MEETING DETAILS			
Project Name	Integrated Logistics Team	Date of Meeting	3-MAR-2015
Meeting Subject	Alaska Railroad Infrastructure and Route Study		
ATTENDEES			
Attended By		Organization	
Stephen Shackleton		Alaska LNG ILT	
Dave Richardson		Alaska LNG ILT	
Bill Powell		Alaska LNG Pipeline Project	
Brian Scott		Alaska LNG Pipeline Project	
Kathleen O'Connell		PRL Logistics	
Chris Adamson		PRL Logistics	
AGENDA ITEMS			
Item	Agenda Item(s)		Leader
1	Safety Minute – Alaska legalized marijuana. The impacts of marijuana's are great on teen age brains. On marijuana using adults have an increased risk for strokes.		O'Connell
2	Introductions		O'Connell
3	Overview of Alaska LNG Project and the Logistics Planning Approach		Shackleton
4	Kathleen reviewed the contents of the AKRR packets that were provided in the meeting.		AKRR
4	Brian Lindamood walked people through the real estate maps and discussed the AKRR plans for improvements. The AKRR has approximately 36,000 acres of which roughly 1/3 is ROW, 1/3 is storage yards, and 1/3 is reserve areas. Seward, Whittier, Anchorage and Valdez were used as staging yard for the TAPS. AKRR has barge service on marine rail in partnership with Lynden. AKRR also has an agreement with the Canadian National Rail.		AKRR
4	Tim Williams stated the AKRR is a 263,000 lb. gross limited systems which means limited to approximately 100 ton per rail car. There have been cases when a special car with more axles (23 axles) was brought up to allow deliver of heavier items. Prince Rupert barge is not currently configured for containers. The Prince Rupert barge comes into Whittier.		AKRR




	INTEGRATED LOGISTIC TEAM	USAI-LL-BAMOM-00-000004-000 3-MAR-2015 REVISION: 0
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4	<p>Per Brian Lindamood: Seward dock has a pipeline from the dock to Shoreside utility for fuel. The Seward passenger dock can be used for freight, but does have weight restrictions. There is a improvement/expansion plan for Seward. The dock and laydown area will be expanded. There is a 30 acre undeveloped adjacent area that is being slowly filled into provide expanded staging and storage. Seward airport is limited in capacity – i.e cannot handle a 737. Hurricane bridge is the highest and longest bridge on the AKRR. Brian Lindamood stated it takes about a month to clear and fill 5 acres of land. AKRR is the Port Authority for Seward and Whittier, and Valdez.</p> <p>AKRR plans to widen and lengthen Seward docks by 2 ½ times today's dock area.</p> <p>Capital constrained. Seward work would take 3 years from financial commitment. Roughly \$42M.</p> <p>Current Stevedore capacity enables working 2 ships at a time.</p>	AKRR	9:00
4	<p>Todd Bunnell stated the AKLNG will have approximately 63 miles of 32" diameter, 0.5 wall, 40' lengths pipe. Subsea (cross Cook Inlet) Concrete Coated pipe will total 54" diameter. Todd stated roughly it would take 12,000 rail cars to move all the pipe. The route in some cases is very close to the AKRR, so there are some opportunities for using the rail and sidings to offload materials to staging areas.</p>	AKRR	9:00
4	<p>Per Brian Lindamood: The AKRR explained the sidings are for "Meets" and that spurs could be built of the sidings for offloading, but the sidings themselves cannot be used for offloading.</p>	AKRR	9:00
4	<p>Per Brian Lindamood and Tim Williams: Whittier: Dock space is congested. 1-2 barge per week typical, and sometimes up to 3-4 barges. Constrained by ability to get loads on and off the barge.</p> <p>Transit time from Prince Rupert to Whittier is typically 4 days. Transit time from Seattle to Whittier is typically 7 days and another 18 hours to Anchorage. Ocean barges typically make 7 knots speed in normal seas.</p>	AKRR	9:00
4	<p>Per Bill Powell, 20 miles of pipe, stacked 2 high takes up about 20 acres of space to stage.</p>	AKRR	9:00
4	<p>Per Brian Lindamood: Portage has lots land but it is mostly swamp. The Portage tunnel is more of a constraint than the Whittier tunnel. Clearance charts will be provided.</p> <p>Seward airport is limited in capacity – i.e. can handle a 737.</p> <p>Hurricane bridge is the highest and longest bridge on the AKRR</p> <p>In terms of other AKRR constraints, the Honolulu bridge is the tightest width constraint. Tim Williams will provide clearance charts.</p> <p>Cold weather is a factor in train lengths due to the air brake systems used. Once it gets really cold, trains have to decrease in length due to leaks in the air brake fittings.</p>	AKRR	9:00
4	<p>Per Brian Lindamood: Whittier Tunnel is 3.5 miles long and restricted to 21 feet high. Portage tunnel is only 20 feet high. 14 foot max clearances in tunnels, but load limit is 8.5 feet wide.</p>	AKRR	9:00

	INTEGRATED LOGISTIC TEAM	USAI-LL-BAMOM-00-000004-000 3-MAR-2015 REVISION: 0
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4	<p>Per Brian Lindamood: Fairbanks facility has a lot of flat car capacity, a passenger facility, and an industrial facility. Biggest customer is Flowline and the AKRR leases the land to Flowline. Flint Hills refinery doesn't make fuel, but is used for storage new. They can load diesel into rail Tankers.</p> <p>Crowley's Anchorage facility currently loads jet fuel into tank cars. 5-6 rail cars at a time.</p> <p>Anchorage facility consist of 600 acres, but little is available for lease. 85-95% is currently leased by Flint Hills, Crowley, Lynden, etc.</p>	AKRR	9:00
4	<p>Per Brian Lindamood: Birchwood is a facility with Eklutna. There is 160 acres of industrial zoned land and is suited for rail. AKRR is working with Eklutna to develop this facility.</p> <p>Port MacKenzie has agricultural covenants that are restricted. AKRR would need about 2.5 years lead time to install tracks to Port McKenzie at around \$125 million.</p> <p>Valdez does not have rail.</p>	AKRR	9:00
4	<p>Per Bill Powell, pipeline will need approximately 250,000 gal. fuel per day = 75 tank cars.</p>	AKRR	9:00
4	<p>Per Tim Williams: Tank cars have been hard to acquire. There is new legislation for tank cars pending. Tim thinks there could be a glut of Tankers available in a year or 2 due an anticipated change in legislation associated with tanker wall thickness.</p> <p>When temperatures are colder – i.e. -10 degrees F, the trains have to be shorter due to sloppier airline connections on the air brakes. Typical lengths at -40 degree F are 3,000' trains and in the summer up to 10,000' trains.</p> <p>South from Anchorage to Seward the train lengths are more constrained due to curvatures and gradients – typical lengths are 5,000'. In the summer trains heading north of Anchorage can be as long as 10,000'</p>	AKRR	9:00
4	<p>Per Tim Williams: You can get about 50 89' cars into Seward. 89' cars typically lease for \$800/month. Tanker cars have about a 28 month lead time due to current demands and rent for about \$1200 - \$1600 per month.</p>	AKRR	9:00
4	<p>Todd stated the pipeline was looking to receive all the pipe within a 2 year period and about 50,000 tons per ship. For the 34 month plan, 125,000' pipe per month has to be delivered. For the 2024 plan, 200,000' pipe per month has to be delivered. Looking at first pipe being delivered in 2020. Once year prior would be civil an infrastructure preparations.</p>	AKRR	9:00
4	<p>Brian Lindamood stated that sidings are strictly used for "meets". Most sidings north of Anchorage are designed to accommodate a 6,500' train the sidings south of Anchorage are designed for 5000-3000' trains. The entire train and engine have to fit on the siding. If the pipeline wants to build a spur off a siding, it needs to be off the siding side or a \$1M penalty to deal with positive train control tax. Typical spurs cost about \$150k to install.</p> <p>Going into Seward, the constraint is curvature and gradient, so trains are typically 5000' – they can be 7000' if they are carrying heavy cargo. Currently the Seward portion of the track is low usage since coal is not being shipped very much.</p> <p>North of Anchorage, the constraint is siding length due to train activity and meets.</p>	AKRR	9:00

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	Federal requirements for Positive Train Control (accident avoidance) will cost the RR \$100M+ over the next two years.	AKRR	9:00
5	Questions and Answers Session	All	10:00
7	Review of Action Items and Wrap-up	O'Connell	10:25
<b>ACTION ITEMS</b>			
<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>





## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

Project Name:	Waterway Suitability Assessment Information Meeting - Stakeholder Representatives	
Meeting Type:	Meeting/Workshop	
Meeting Subject:	Waterway Suitability Assessment Information Meeting - Stakeholder Representatives	
Date of Meeting:	04/01/2015	
Document Control Number:	USAI-PE-SAMOM-00-000043-000	
ATTENDED BY:	ORGANIZATION:	
Amy Gilson	Nuka Research and Planning Group	
Aurora Courtney	exp Energy Services	
Brad Fuller	AcuTech	
Claire Joseph	Alaska LNG Project	
Eugene Agnu	Chikaloon Native Village	
Eugene Chung	United States Coast Guard	
James Wilson	Port Mackenzie	
Kim Fox	Alaska LNG Project	
Lydia Johnson	Alaska LNG Project	
Marc Van Dongen	Port Mackenzie	
Naomi McMullan	Port Graham Tribal Council	
Robert Davis	United States Coast Guard	
Ron Ward	Southwest Alaska Pilots Association (SWAPA)	
Ryan Hickel	Alaska Department of Natural Resources	
Sharen Walsh	Port of Anchorage	
Sierra Fletcher	Nuka Research and Planning Group	
Steve Calabrese	AcuTech	
Stuart Greydanus	Port of Anchorage	
Tim Robertson	Nuka Research and Planning Group	
AGENDA ITEMS:		
Item	Agenda Item	Description
1	Welcome and Purpose, Participant Introductions	USCG welcomed participants and stated that the purpose of the meeting was to inform stakeholders of the WSA process. Participants in person and on the phone then introduced themselves and their roles/organizations.
2	Alaska LNG Project Overview	Lydia Johnson provided an overview of the AK LNG Project
3	Introduction to the WSA Process	Provided overview of WSA regulatory process
4	Waterway Characterization	Provided overview of Waterway Characterization, including vessel route segments
5	Location and Operation of Liquefaction Facility	Stuart Greydanus asked where the liquefaction facility will be located relative to other facilities. Lydia Johnson responded that it will be south of the existing liquefaction facility and the Tesoro refinery.
6	Facility and Dock Operations	Stuart Greydanus asked who will run the docks and own the facility? Lydia Johnson responded that the Project partners (including the State) are still determining what the operational model will look like for the Project, and that it is a commercial decision regarding how to structure the company/organization that will run the facilities.
7	Facility Acreage	Mark van Dongen asked about the acreage required for the facility. Lydia Johnson responded that a total of 700-800 acres is expected to be acquired.
8	Impacts to Port of Anchorage Traffic & Meeting Invitation	Sharen Walsh asked how Port of Anchorage vessel traffic would be impacted by an incident in middler/lower Cook Inlet from the LNG Carrier traffic. Sharen offered to meet with anyone interested in discussing this issue. Brad Fuller responded that this will be covered in

Item	Agenda Item	Description
		the WSA risk assessment. Claire Joseph responded that these sort of comments and concerns were encouraged to be raised/brought forward before the WSA risk assessment.
9	Conclusion	LT Chung concluded the meeting, encouraging participants to provide comments to USCG by May 1. The participants can provide comments by phone, email, or letter. LT Chung also provided demonstration on USCG HomePort site.

# Alaska LNG

## MEETING NOTES

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Name:</b>	Ninilchik Traditional Council Leadership Meeting
	<b>Date of Meeting:</b>	4/3/15
<input type="checkbox"/> Telephone	<b>Number:</b>	

### ATTENDEES:

**Number of Attendees Who Signed-In:** 5

<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
Josselyn O'Connor	Alaska LNG	Ivan Encelewski, Executive Director	Ninilchik Traditional Council
Michael Nelson	Alaska LNG	Greg Encelewski, President	Ninilchik Traditional Council
Rosetta Alcantra	Alaska LNG	Dean Kvasnikoff, Vice President	Ninilchik Traditional Council

Please see the sign-in sheet for the complete list of attendees.

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Project Update	Josselyn O'Connor	
2	Question and Answer	Josselyn O'Connor	

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>
1	N/A		

### KEY ISSUES:

1	<b>Stakeholder engagement – Tribes and Regional Tribal consortia:</b> The Ninilchik Traditional Council offered to help Alaska LNG make partners in the local area. The Ninilchik Traditional Council would prefer to work with federal agencies instead of state agencies.
2	<b>Environmental impacts – subsistence:</b> The clam population has declined and ADF&G has closed the Ninilchik area beaches to harvesting clams as a result. Increased pressure on fishing and hunting in the Kenai Peninsula with increased population during construction and operation of the project are a concern.

### DISCUSSION ITEMS:


# Alaska LNG

## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Name:</b>	Native Village of Tyonek Tribal Council and Tyonek Native Corporation Board of Directors – Joint Meeting
<input type="checkbox"/> Telephone	<b>Date of Meeting:</b>	April 10, 2015
	<b>Number:</b>	

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Michael Nelson	Alaska LNG	Alfred Goozmer, President	Native Village of Tyonek Tribal Council
Josselyn O'Connor	Alaska LNG	Arthur Standifer, Vice President	Native Village of Tyonek Tribal Council
Rosetta Alcantra	E3	Marian King	Native Village of Tyonek Tribal Council
		Donald Standifer, Jr.	Native Village of Tyonek Tribal Council
		Joseph Standifer	Native Village of Tyonek Tribal Council
		Katherine Chickalusion	Native Village of Tyonek Tribal Council
		Donita Slawson, Tribal Administrator	Native Village of Tyonek
		Jaison Standifer, Chair	Tyonek Native Corporation Board of Directors
		Michaelene Stephan, President	Tyonek Native Corporation Board of Directors
		Emil McCord	Tyonek Native Corporation Board of Directors
		Lisa Constantine (via teleconference)	Tyonek Native Corporation Board of Directors
		Charlene Stephan (via teleconference)	Tyonek Native Corporation Board of Directors
		Bart Garber (via teleconference)	Tyonek Native Corporation Board of Directors
		Robert Stephan (via teleconference)	Tyonek Native Corporation Board of Directors

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	General project overview	Michael Nelson	15 minutes
2	Questions from Attendees	Michael Nelson	20 minutes

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>
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<b>&lt;Meeting Subject&gt;</b>
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KEY ISSUES:			
1	Project design/description – general: How much gas would be exported and how much would stay in state for use by Alaskans?		
2	Project design/description – LNG facility: Is the proposed LNG facility separate from the existing LNG facility in Nikiski?		
3	Project location – Southcentral: Is the west route focused near Beluga? How close is the route to the proposed PacRim trestle for coal? Is it near Viapan Lake? Can the project get photos or a large map of the area? Why is the route not further west and south of Tyonek and Beluga?		
4	Field studies – physical sciences: Are boreholes temporary?		
5	Stakeholder engagement – general: Request to meet again to discuss proposed field work, field work, potential work and jobs, and how to minimize impacts. Request for the meeting to be before fishing begins. We want open discussions.		
6	Regulatory – federal: Where is the project in the NEPA 106 process?		
7	Local content – employment: Can locals be hired for remote field access? Note of locals being unable to get jobs for the Chugach Electric Project.		
DISCUSSION ITEMS:			

# Alaska LNG

## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="checked" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG		
	<b>Meeting Name:</b>	Kenai Peninsula Economic Development District		
	<b>Date of Meeting:</b>	April 13, 2015		
	<b>Number:</b>			
<b>ATTENDED BY:</b>		<b>ORGANIZATION:</b>	<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Josselyn O'Connor		Alaska LNG	Rick Roeske	Kenai Peninsula Economic Development District
<b>AGENDA ITEMS:</b>				
<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>	
1	Introduction meeting and general project discussion	Josselyn O'Connor		
<b>AGENDA ITEMS:</b>				
<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>	
<b>KEY ISSUES:</b>				
1	<b>Stakeholder engagement-general:</b> Opportunity for Alaska LNG to participate in KPEDD Jan. 2016 Industry Outlook Forum.			
2	<b>Local content-general:</b> Will there be a labor shortage? Will training be available for a younger workforce?			
3	<b>Environmental effects-socioeconomic impacts:</b> Concerned about the need for increased infrastructure services, such as hospitals, schools, police, etc., before the project starts contributing to the local tax base. Worried about what happens to the communities in the Kenai Peninsula Borough if the project does not end up moving all the way forward.			
4	<b>Environmental effects-road traffic:</b> Concerned about the project further exacerbating increased traffic at the "Y" intersection in Soldotna.			
<b>DISCUSSION ITEMS:</b>				

# Alaska LNG

## MINUTES OF MEETING/RECORD OF TELEPHONE CONVERSATION

<input checked="" type="checkbox"/> Meeting <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Name:</b>	Kenai and Soldotna Joint Chambers of Commerce Meeting
	<b>Date of Meeting:</b>	April 15, 2015
	<b>Number:</b>	MM-AKE-URAK-EDHO-14-0009

ATTENDED BY:	ORGANIZATION:	ATTENDED BY:	ORGANIZATION:
Michael Nelson	Alaska LNG		City of Kenai
Lisa Gray	Alaska LNG		Dan Sullivan's office
Mark Jennings	Alaska LNG		Peninsula Smokefree Partnership
Patty Murphy	Alaska LNG		LeeShore Center
Josselyn O'Connor	Alaska LNG		Udelhoven
	Airport Equipment Rentals		KPEDD
	Wells Fargo		McDonalds
	Gammas Design		Brown Agency
	FNBA		Tesoro
	Spenard Builders Supply		Sikorski Consulting
	Metal Magic		Lynden Transport
	Peninsula Clarion		Kenai Peninsula Food Bank
	KDLL		Kenai Watershed Forum
	KSRM		Kenai Peninsula Tourism Marketing Council
	Hutchings Auto Group		City of Soldotna
	ConocoPhillips		Kenai Chamber
	Kenai Peninsula Borough		Soldotna Chamber

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Alaska LNG Project Overview Presentation	Michael Nelson	10 minutes
2	Questions from Attendees	Michael Nelson	20 minutes

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>

### KEY ISSUES:

<u>Item</u>	<u>Description</u>
1	<b>Project design/description – general:</b> Would the gasline be stainless steel?
2	<b>Project design/description – feasibility:</b> What are the biggest obstacles?
3	<b>Project design/description – regulatory:</b> How important is it to get non-free trade agreements for export to the market? What is the state's equity share and the role of TransCanada?

## Kenai and Soldotna Joint Chambers of Commerce Meeting

4	<b>Local content – training general:</b> Would Alaska LNG train an Alaskan workforce to work on the project? How do you apply for a workforce program if you are considering it? Other projects, like Donlin Gold, have trained a local workforce.
5	<b>Environmental effects – shipping:</b> What would marine traffic look like?
6	<b>Environmental effects – physical impacts general:</b> Concerned about drilling affecting aquifers being used by homes in the area.
<b>DISCUSSION ITEMS:</b>	





## MINUTES OF MEETING (MOM)

Project Name:	Meet with Kenaitze Indian Tribal Council - Project Update
Meeting Type:	Meeting/Workshop
Meeting Subject:	Project Update
Date of Meeting:	04/17/2015
Document Control Number:	

<b>ATTENDED BY:</b>	<b>ORGANIZATION:</b>
Lisa Gray	Alaska LNG Project
Mark Jennings	Alaska LNG Project

### AGENDA ITEMS:

Item	Agenda Item	Description
1	Alaska LNG Project update to the Kenaitze Tribal Council	<p>On Friday April 17, 2015, representatives of the Alaska LNG project provided a brief 15-minute update on the Project at a regularly scheduled meeting of the Kenaitze Indian Tribal Council. Handouts of a PowerPoint slide deck were provided and both Ms. Gray and Mr. Jennings spoke from the handout.</p> <p>Kenaitze Tribal Council members expressed interest in potential jobs, contracting opportunities and training associated with the Project and had a few questions about the construction schedule. In addition, members indicated concerns about potential impacts to Cook Inlet beluga whales as well as fishing.</p> <p>The Kenaitze Tribal Council members expressed appreciation for the Alaska LNG Project update and asked for periodic updates in the future.</p>

### ACTION ITEMS:

Item	Action Items/Topics	Assigned To	Due Date
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# Alaska LNG

## LEADERSHIP MEETING NOTES

<input checked="" type="checkbox"/> Meeting	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Name:</b>	City of Soldotna Council
	<b>Date of Meeting:</b>	4/22/15
<input type="checkbox"/> Telephone	<b>Number:</b>	

### ATTENDEES:

<b>Number of Attendees Who Signed-In:</b>	11		
Michael Nelson	Alaska LNG	Nels Anderson, Mayor (resigned as Mayor Oct. 2015)	City of Soldotna
Mark Jennings	Alaska LNG	Paul Whitney, Council	City of Soldotna
Josselyn O'Connor	Alaska LNG	Meggean Bos, Council	City of Soldotna
Patty Murphy	Alaska LNG	Linda Murphy, Council	City of Soldotna
Tasha Edwards	Alaska LNG	Regina Daniels, Vice Mayor	City of Soldotna
Josephine Chingliak	Alaska LNG	Keith Baxter, Council	City of Soldotna
		Pete Sprague, Council (became Mayor Oct. 2015)	City of Soldotna
		Mark Dixon, City Manager	City of Soldotna
		Shellie Saner, City Clerk	City of Soldotna
		Police Chief Peter Mlynarik,	City of Soldotna
		Jackson Blackwell, Student Rep.	City of Soldotna

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	PowerPoint Presentation	Michael Nelson	10 minutes
2	Questions from Attendees	Michael Nelson	10 minutes

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>

### KEY ISSUES:

1	<b>Project design/description – feasibility:</b> What does Alaska LNG see as major hurdles to completion? Would the competing project of ASAP affect Alaska LNG?
2	<b>Project schedule – operations:</b> When will the project be completed, and when would gas run through the pipe?
3	<b>Project location – routing questions Southcentral:</b> Why did the project choose Nikiski for the LNG facility? We like having the facility here in the Kenai Peninsula, but why did the project choose to go under the Cook Inlet and not go through the Mat-Su Valley?
4	<b>Stakeholder engagement – cities and boroughs:</b> Does Alaska LNG have a local office in the Kenai Peninsula?

# Alaska LNG

## LEADERSHIP MEETING NOTES

<input checked="" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Name:</b>	Salamatof Native Association
	<b>Date of Meeting:</b>	4/23/15
	<b>Number:</b>	

### ATTENDEES:

Number of Attendees Who Signed-In:

<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
Josselyn O'Connor	Alaska LNG	Chris Monfor, CEO	Salamatof Native Association
Michael Nelson	Alaska LNG	Kaarlo Wik, Board Chairman	Salamatof Native Association
Mark Jennings	Alaska LNG		
Patty Murphy	Alaska LNG		

### AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Project Overview	Michael Nelson	5 minutes
2	Questions from Salamatof Native Association	Michael Nelson	20 minutes

### ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>
1	Take concern of potential Salamatof land development back to Lands Team.	Michael Nelson	Complete
2	Follow communication with Salamatof about Cook Inlet field studies and subsistence activities (may contact Chris Monfor or Sharon).	Michael Nelson (C. Rea)	Q1 2016

### KEY ISSUES:

1	<b>Project design/description – Kenai Spur Highway relocation:</b> With regards to Kenai Spur road work, is the project conscious of how the final route decision may also affect businesses/commerce and properties in the area?
2	<b>Project location – general:</b> What is the planned route from the North Slope through the state?
3	<b>Land access – general:</b> Salamatof has a beach site (80 acres) that is immediately east of Tesoro, which is intended to develop as a peony farm. What happens if we start to develop the 80 acres and throw a couple million dollars into it, and the project wants to buy the land?
4	<b>Field studies – general:</b> Are you able to share studies with the Alaska Stand Alone Pipeline (ASAP)?
5	<b>Stakeholder engagement – tribes and regional tribal consortia:</b> Salamatof would like a return visit by an Alaska LNG team to discuss field work in Cook Inlet and how it may impact subsistence activities.
6	<b>Environmental effects – socioeconomics impacts:</b> Empty buildings on properties purchased for the project may attract crime.

### DISCUSSION ITEMS:

## Salamatof Native Association Leadership Meeting

1	<p>Q: Our beach site (80 acres) is immediately east of Tesoro and is intended to be developed as a peony farm. What happens if we start to develop the 80 acres and throw a couple million dollars into it and the project wants to buy it?</p> <p>A: We will take that question back to the Lands Team, but I would say if you have not been contacted than the project has no plans to acquire it. The project has identified a large area, and we are looking to acquire land in that area. The project does not need every place that has been identified as a possible location, but we need a certain configuration within that area. People ask "where it is going to be", but the project does not know yet. It can shift. It is still in play.</p>
2	<p>Q: With regards to Kenai Spur road work, is the project conscious of how the final route decision may also affect businesses/commerce and properties in the area?</p>
3	<p>Q: What is the planned route from the North Slope through the state?</p>
4	<p>C: Salamatof would like a return visit by an Alaska LNG team to discuss field work in Cook Inlet and subsistence activities.</p> <p>A: At some point, Alaska LNG would like to talk to Salamatof about some of the work out in Cook Inlet. The project has gone through permitting from the National Marine Fisheries Service (NMFS) for seismic work, etc., but we want to inform Salamatof and other tribal entities in the area of the work because a lot of your subsistence activities are based on the vitality of the marine life. If you would like a return visit, how do we coordinate that?</p> <p>C: They can contact me (Chris Monfor) or Sharon.</p> <p>A: Alaska LNG will be in touch for additional communication.</p>
5	<p>C: Empty buildings on properties purchased for the project may attract crime.</p>
6	<p>Q: What are the opportunities for business workshops or sessions?</p>
7	<p>Q: Are you able to share studies with the Alaska Stand Alone Pipeline (ASAP)?</p>

# Alaska LNG™ OPEN HOUSE MEETING SUMMARY

<input checked="checked" type="checkbox"/> Meeting  <input type="checkbox"/> Telephone	<b>Project Name:</b>	Alaska LNG
	<b>Meeting Name:</b>	Nikiski Open House Meeting Summary
	<b>Date of Meeting:</b>	4/23/15
	<b>Number:</b>	

## ATTENDEES:

<b>Number of Attendees Who Signed-In:</b>	163
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<u>Name</u>	<u>Affiliation</u>	<u>Name</u>	<u>Affiliation</u>
Lisa Gray	Alaska LNG	Bill Stevens	Nikiski
Mark Jennings	Alaska LNG	J.D. Quarry	Kenai
Michael Nelson	Alaska LNG	Ludie Baranek	Kenai
Cynthia Trapp	Alaska LNG	Marty Odsather	Anchorage
Angel Rabon	Alaska LNG	Wilma Hampson	Nikiski
Eva Welch	Alaska LNG	Rick Roesla	Soldotna
Joshua Vo	Alaska LNG	Brian Johansen	Kenai
Patty Murphy	Alaska LNG	Mollie Burton	Nikiski
Josephine Chingliak	Alaska LNG	Debbie England	Kenai
Oscar Evon	Alaska LNG	Wayne Ogle	Nikiski
Tasha Edwards	Alaska LNG		KDLL Central Kenai Peninsula Radio
Miles Baker	AGDC		KTUU Anchorage Channel 2 News

**Please see the sign-in sheet for the complete list of attendees.**

## AGENDA ITEMS:

<u>Item</u>	<u>Agenda Item(s)</u>	<u>Leader</u>	<u>Duration</u>
1	Open house meeting where attendees viewed posters and handouts with information on the project and could speak with staff and ask questions.	Alaska LNG Stakeholder Team	

## ACTION ITEMS:

<u>Item</u>	<u>Action Item(s)</u>	<u>Action By</u>	<u>Date Req.</u>


## KEY ISSUES:

1	<b>Project design/description – general:</b> How is this project different from the ASAP Project? Would the pipeline be above or below ground? How wide is the pipeline corridor?
2	<b>Project design/description – LNG facility:</b> What is the footprint, location, and acreage of the LNG facility area? Where on the map will the plant be located? Why is Alaska LNG not using existing Hilcorp infrastructure or other existing infrastructure? Has this type of facility been built before? Is there involvement with Tesoro?
3	<b>Project design/description – Kenai Spur Highway relocation:</b> Would the Kenai Spur Highway be relocated or re-routed? If so, where would it be and when would this occur?
4	<b>Project design/description – feasibility:</b> What is the likelihood of this project moving forward? Where do the governor and environmental organizations stand on this project?
5	<b>Location – Southcentral:</b> What is the width and routing of the corridor, including the crossing of Cook Inlet? Would the gasline cross Fire Island?

## Nikiski Open House Meeting

6	<b>Project schedule – general:</b> This project is long overdue. How soon would the project start and get the economy going in the Kenai Peninsula area? General questions about the project timeline for route finalization, regulatory process, and studies. When would the LNG facility be built and in operation? When would gas flow in the line?
7	<b>Land access – general:</b> Is eminent domain an option for the project? Are further property acquisitions going to occur? Can I be forced to sell my land? How does the project decide when to purchase whole parcels of land and not partial parcels? Will more property be purchased even if we are not contacted? The project land appraisal process was explained by request. Will property improvements continue for land at the LNG facility? What is the next step if I live in the mainline corridor? Is the project aware of an existing 300 foot right-of-way at Point Possession? Some homeowners asked questions about being contacted by the project, or wondering if they would be contacted by the project.
8	<b>Field studies – general:</b> KDLL Central Kenai Peninsula Radio asked for an update on 2015 studies and field work. Some concerns were expressed with borehole studies and water table impacts.
9	<b>Stakeholder engagement – general:</b> Several requests for a presentation prior to the Open House. Are maps, posters, and the PowerPoint presentation available online? How can we be involved? Some landowners discussed that they had not been contacted by the project.
10	<b>Local content – training general:</b> Interest in business workshops. Would Alaska LNG engage in training opportunities with Alaska Vocational Technical Center (AVTEC)?
11	<b>Local content – employment general:</b> How many jobs would be created by the LNG facility? When would jobs be available? We would like local businesses involved, and a focus on local hires.
12	<b>Local content – contracting:</b> Local electric company noted registration for business workshops and interest in contract work. Can the general public purchase vacated houses on land the project has acquired and move them off the property? A local trailer park owner asked about renting to the project.
13	<b>Local content – supplier development:</b> A concern raised about modules being constructed outside Alaska in the Lower 48 and offshore rather than being constructed in Alaska.
14	<b>Environmental effects – physical:</b> Concern of impacts to the water aquifer, water table, and personal wells from borehole testing. Would water levels change along lake property? Would land be cleared?
15	<b>Environmental effects – socioeconomic impacts:</b> What would the project do about housing? There is a shortage of affordable housing in Nikiski. Would there be dorms at the LNG facility? Concern about effects on land, home, and property values. How would the project affect the local real estate economy? Concern about potential loss of setnet fishing jobs and income. Worried about social impacts to the local area, including a potential increase in crime.
16	<b>Environmental effects – impacts on local government:</b> Concern about local law enforcement not having the resources to deal with a possible increase in crime.
17	<b>Environmental effects – air quality:</b> Concern about emissions and smells from the Alaska LNG facility. The existing LNG facility sometimes has a smell.
18	<b>Environmental effects – noise:</b> How close is the project to Cabin Lake? Concern about impacts of the project to the Cabin Lake area, including noise. Concern about LNG facility noise levels.
19	<b>Environmental effects – road traffic:</b> Concern about the influx of traffic, the rerouting and improvement of roads, and the transport of construction material during tourist season. Would the existing gravel roads be improved?
20	<b>Environmental effects – safety:</b> Is the gas coming ashore and into the LNG facility safe? Is the gas explosive? Why can the project not use the existing gaslines? Please ensure safe business practices by project contractors.

### DISCUSSION ITEMS:


	MINUTES OF MEETING (MOM)	USAI-PE-SAMOM-00-000027-000 02-Nov-16
	CONFIDENTIAL	REVISION: FINAL Page 1 of 1

MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 1, 2015
Sub-Project Name		Location	Barrow, AK
Meeting Subject	Alaska LNG Project Pre-FEED Supply Chain "Meet & Greet" - Barrow		

ATTENDEES			
Name	Organization	Name	Organization
Forrest Olemaun		Patrick Suvlu	North Slope Borough (NSB)
Kim Fox	Alaska LNG Project	Susana Montana	North Slope Borough (NSB)
Lydia Johnson	Alaska LNG Project	Wayne Cary	North Slope Borough (NSB)
Matt Dunn	North Slope Borough (NSB)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 5, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Cantwell, AK
<b>Meeting Subject</b>	Cantwell Community Meeting		

## ATTENDEES

Name	Organization	Name	Organization
Armeda Bulard		Jim Caswell	
Bertina Sien		Lisa Gray	Alaska LNG Project
Bud Carlson		Matthew Horneman	Alaska LNG Project
Chris Holmberg		Michael Mason	
Elizabeth Appleby	AECOM	Michael Nelson	Alaska LNG Project
D. Nicholas		Oscar Evon	E3 Environmental
Gordon Carlson		Patty Murphy	E3 Environmental
Jane Nicholas		Tasha Edwards Michael	Umiaq
Jay Holmberg			

## DISTRIBUTION

Name	Organization	Name	Organization


## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Bring comment to state requesting representatives at community meetings.
2	Stakeholder Action Item	Give Cantwell more information on the agreement in place for costs among the parties (percent ownership).
3	Stakeholder Action Item	Mail postcards earlier for future meetings in Cantwell to account for post office boxes not checked daily. Communicate this to internal stakeholder engagement team.
4	Stakeholder Action Item	Check mileposts on maps (they seem off/misprinted).
5	Stakeholder Issue	What is the pressure of the pipeline? Why are project engineers not putting in a few more tees to the line? One attendee noted he was under the impression the project would not supply gas for Alaska because he assumed the gas would be liquefied on the North Slope.
6	Stakeholder Issue	Does the project foresee selling some of the gas in Nikiski?
7	Stakeholder Issue	Does the Alaska LNG website have a breakdown of what has been spent so far on the project, how the money has been spent, and who has received funds? Is the money being utilized by everyone? Would residents pay more for gas from this project than others? What would the gas cost?
8	Stakeholder Issue	What is the life of the pipeline? How long would you be pumping gas?
9	Stakeholder Issue	If people come out against the project, would you use eminent domain to obtain land for it?
10		What is involved in the off-takes? The project should be able to design some smaller ones. What is an off-take? Is it a pressure station? Would a plant be built? Is it a tee valve?



11	Stakeholder Issue	Why is the off-take decision with the state?
12	Stakeholder Issue	The state should have a representative at public meetings for the project.
13	Stakeholder Issue	Please mail postcards earlier to accommodate residents who do not check mail daily. The mileposts are incorrect on the map.
14	Stakeholder Issue	What is going to happen if there is a spill or explosion? If there is some kind of damage in the future, what would people get in return?
15	Stakeholder Action Item	MP 181-216.5 Caswell Easement Preferred south side highway route.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Phone Call	Date of Meeting	May 5, 2015
Sub-Project Name	Marine Terminal, Gas Pipeline	Location	Kenai, AK
Meeting Subject	Subsistence Discussion for Cook Inlet G&G IHA - Salamatof		

ATTENDEES			
Name	Organization	Name	Organization
Chris Monfor	Salamatof Native Association Inc	Rosetta Alcantra	E3 Environmental

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 6, 2015
<b>Sub-Project Name</b>		<b>Location</b>	McKinley Park, AK
<b>Meeting Subject</b>	McKinley Village Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Anne Beaulaurier		Michael Nelson	Alaska LNG Project
Christopher Infante		Oscar Evon	E3 Environmental
David Arnold	Denali Citizens Council	Patty Murphy	E3 Environmental
Denny Capps		Rob Burros	
Elizabeth Appleby	AECOM	Ron Dane	
Erica Watson	Denali Citizens Council	Sarah Bartholow	
Janet Hamm		Shannon Coy-Kendall	
Josselyn OConnor	Alaska LNG Project	Sierra McLane	
Lisa Gray	Alaska LNG Project	Tasha Edwards Michael	Umiaq
Mark Jennings	Alaska LNG Project	Tom Walker	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Bring a pipeline engineer to talk to the community about the regulatory process and decision making regarding the route selection.
2	Stakeholder Action Item	Talk to pipeline engineers about the seismic concerns in the area.
3	Stakeholder Action Item	Look at comments on mid-October, 2014 ASAP Supplemental EIS regarding access roads, gravel pits, and construction.
4	Stakeholder Issue	Does Alaska LNG build the line, and we work with the state to get the gas? The primary purpose of the project is to export the gas, and a byproduct is supply for the state? When you talk about alignment with the other entities on the project, are you talking physical alignment on the ground or ideological agreement? Are there plans to absorb the ASAP Project? Will there eventually be one project chosen? Is the ASAP Project not over? How does the gas stay cold en route? Is the gas methane?
5	Stakeholder Issue	Besides profitability, what other things would bring the project to a halt? Where else has this been done in a similar environment? Is Alaska LNG proposing something that has not been done on a comparable scale?
6	Stakeholder Issue	How are drainage crossings handled?

7	Stakeholder Issue	Did ASAP or Alaska LNG request the right-of-way through Denali National Park? Is the route through Denali National Park still under consideration? Permission has already been given to go through the park for ASAP. The Alaska LNG proposed route shows the line branching off the highway, going up the valley, and going through a lot of wetland area opposed to going through an already disturbed zone like the highway. Is Alaska LNG attempting to use existing right-of-ways, such as the Intertie? It would be nice to have as a viable option moving the corridor back toward the road. Murkowski went through the effort to get the line through Denali National Park approved; why are you ignoring this? When you have got a lot of people who are environmentally conscious asking you to put the gasline through Denali National Park, they have got a reason for it. I hope you consider it.
8	Stakeholder Issue	What are the next 3-4 years going to look like as far as this coming to reality with Alaska LNG vs. ASAP?
9	Stakeholder Issue	Can Alaska LNG use eminent domain to take private land? There are private properties abutting the Intertie and that is a concern here [in the McKinley Park area].
10	Stakeholder Issue	When will we know whether or not we will be able to access the gas in the McKinley Park area?
11	Stakeholder Issue	Do you have any specific information on the field work in the McKinley Park area this summer?
12	Stakeholder Issue	It would be nice if the state had a representative traveling with you so we could talk to you both at once. When would be the next chance to comment on the route? Do you have access to community responses to ASAP permit applications? Are you sharing that data? We [McKinley Park area residents] made comments for the ASAP Supplemental EIS regarding access roads, gravel pits, and construction back in 2014. Will you please look at those? Is the concept selection process public information?
13	Stakeholder Issue	Is Alaska LNG keeping a budget for compensating communities who are not affected positively by the gasline, such as those who do not get an off-take? What is MAG?
14	Stakeholder Issue	Are you using local hire? How are you going about labor studies?
15	Stakeholder Issue	I hope a training program to be sure Alaskans have the skills to work on the project is a focus of Alaska LNG.
16	Stakeholder Issue	Would there be a project requirement to use American steel?
17	Stakeholder Issue	If the pipe ruptures, what physically happens? What is the worst case scenario?
18	Stakeholder Issue	Would the gasline be above ground in the McKinley Park area because of seismic activity? There are faults in the McKinley Park area.
19	Stakeholder Issue	What was the safety record on your New Guinea project?
20	Stakeholder Issue	If you said you were going to put this along the highway and include a bike path, there would be so many people on board with that.
21	Stakeholder Issue	A major local concern is the impact during construction phase. Gravel pits, explosions, road building. Wildlife and water disturbances and drainage.
22	Stakeholder Issue	Mile 224 Carlo Creek is a small residential and locally owned commercial district. Would like to see this area remained not impacted. Private land owners own land here that abut intertie. Conserved!
23	Stakeholder Issue	Broad Pass/Summit- Why spread out all the easements? Intertie, railroad, highway and AK LNG all side by side makes for a huge disturbance in a highly scenic, rich wildlife and recreation area.
24	Stakeholder Issue	Many residents are concerned about the routing through the Younert Valley (see supplemental EIS comments for ASAP Oct 2014) and the disturbances caused by access roads, gravel pits, and construction phase. Please consider an alternate route using the highway corridor (particularly if you built a bike path!)
25	Stakeholder Issue	What is Alaska's interest and investment in the project?
26	Stakeholder Issue	What would the finished surface of the corridor be like after construction?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 7, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Healy, AK
<b>Meeting Subject</b>	Healy Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Angel Hayes		Mark Jennings	Alaska LNG Project
Barbara Brease		Mark Menke	
Brooke Merrell	United States National Park Service, Alaska Regional Office	Michael Scheiber	
Charles Stone		Mike Giannechini	
Chris Noel		Nancy Russell	
Chris Shorey		Nannette Stone	
Claudia Furlong	Homer Electric Association	Oscar Evon	E3 Environmental
Clay Walker	Denali Borough	Patsy Nordmark	Motel Nord have
Corine Wuthrich		Patty Murphy	E3 Environmental
Dave Schirokauer		Peggy Menke	
DeVere Pischal		Sherry Kever	
Ed Vorisek		Sterling Lopez	Paragon Partners Ltd
Elizabeth Appleby	AECOM	Steve Denton	
Hannah Ragland	Denali Citizens Council	Sumariam Low	
Ivane Haverlikova		Tasha Edwards Michael	Umiaq
Lisa Gray	Alaska LNG Project	Terry Hinman	AGDC
Liz Denton		Terry Miller	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	If field people are going to drill holes on private property, make sure they have common access figured out so they use regular trails and do not cut through the woods.
2	Stakeholder Action Item	Return for an update in the future, either in conjunction with a FERC scoping meeting, or on behalf of the project.

3	Stakeholder Action Item	Get back to the community with a number of private properties being affected between Cantwell and Anderson.
4	Stakeholder Action Item	Provide maps for the office in Healy.
5	Stakeholder Issue	Why is Alaska LNG called a project and not only a pipeline? How many years of gas are available? Who makes the decision of whether or not to build the project? I was under the assumption that the gas was going to be liquefied on the North Slope; is it being shipped a gas through the pipeline?
6	Stakeholder Issue	Is there an oil price at which the companies will bail on the project? What if one of the producers decides to bail?
7	Stakeholder Issue	Who is paying for this project? After pre-FEED, will the partners be looking for additional investors?
8	Stakeholder Issue	Do you have a map showing possible materials sites? Could Healy meeting attendees look at these proposed route maps after today? I am concerned that the maps are not publicly available. We [Healy meeting attendees] would like to have the GIS data to use with our own GIS data. We [Healy area meeting attendees] informed Alaska LNG of an archaeological area last year; has that affected the route?
9	Stakeholder Issue	Is there a reason the gasline route has to go where people live instead of near the Intertie? When are you going to investigate Murkowski's bill she passed to allow the gasline to go through Denali National Park?
10	Stakeholder Issue	Our economy [in the Healy area] relies on tourism, and I see the map shows the proposed route in Denali National Park, and that could affect tours and tour guides.
11	Stakeholder Issue	How many private properties are affected by the project?
12	Stakeholder Issue	Besides the compressor station, what else can Healy expect? Is Healy going to benefit from the project? Might there be an intake plan for local gas sources in the Healy area?
13	Stakeholder Issue	Will the impact studies take a look at the socioeconomic and environmental impacts regarding the gravel extractions and other construction issues? The work done last summer had quite a bit of environmental impact, so how does the project get a baseline when activities from last summer may impact the data?
14	Stakeholder Issue	Is LNG toxic?
15	Stakeholder Issue	How will seismic activity affect the pipeline design? Will it be above ground?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 8, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Soldotna, AK 99669
<b>Meeting Subject</b>	Casual visit with Kenai Peninsula Foundation board of directors		

## ATTENDEES

Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project	Roger Boyd	Kenai Peninsula Foundation
Kathy Gensel	Kenai Peninsula Foundation	Stan Steadman	Kenai Peninsula Foundation


## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Discussion	Josselyn O'Connor attended the May business meeting of Kenai Peninsula Foundation (affiliate of the Alaska Community Foundation). Josselyn is the secretary of the organization. After the business meeting adjourned, the group sat around and discussed AK LNG for approximately 30 minutes. Highlights We had a general discussion about my new role with AK LNG. I explained the stakeholder engagement team and process, as well as the Pre-FEED and FEED phases of the project. Roger Boyd • Tanker traffic – Roger is a good friend of Fritz (ConocoPhillips). They have discussed the amount of expected tanker traffic. Roger's exact quote "I don't want a tanker filled with LNG to end up on my beach." He has a home on the bluff south of Kenai. • Encouraged early engagement of the organizations that provide social services • Has friends on Island Lake – they are very concerned about sound. • Has heard stories of BP operations – operate till repair rather than safety and environment first. • Jake Wolfe (Roger's friend) attended Open House in Nikiski and didn't like the format. Jake is a Peak drilling guy. Suggested follow-up. • Perspective – if he was 30 he would probably be all for the project. But now in retirement, he isn't sure. Referred to a bumper sticker after TAPS: Please Lord give me one more AK oil boom and I promise not to piss it away. • Not necessarily against it, but will watch it closely. Kathy Gensel • Workforce – will we be ready? • Influx of people - lines at restaurants and theatres Stan Steadman • Suggested a community game: Set up a boom/bust live game/study. Have people from different sectors "play" different roles in the game. Basically walk through different scenarios from different perspectives.
2	Stakeholder Issue	Attendee's friend went to an open house in Nikiski and did not like the format. Suggestion of a roleplaying game to simulate different possible economic impacts, including the chances for a boom-bust scenario.
3	Stakeholder Issue	Participant encouraged early engagement of the organizations that provide social services.
4	Stakeholder Issue	Will the workforce be ready for the amount of work?
5	Stakeholder Issue	Participant was concerned for safety and the environment being a priority. Concern for an LNG carrier to rupture on private property in the area.
6	Stakeholder Issue	Concern for the influx of people locally at businesses like theaters and restaurants.
7	Stakeholder Issue	Residents on Island Lake are concerned about potential noise impacts.
8	Stakeholder Issue	Discussed the amount of expected shipping traffic.
9	Stakeholder Action Item	Follow up with Roger Boyd.
10	Stakeholder Action Item	Call Jake Wolfe regarding meeting format.

## ACTION ITEMS

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 11, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Nikiski, AK 99611
<b>Meeting Subject</b>	Introduce the project to community and establish relationship with council.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Audrey Johnson		Josselyn OConnor	Alaska LNG Project
Bill Hartline		Katrina Nelson	
Bonita Miller		Michele Hartline	
Darcy McCaughey	Nikiski Community Council	Wayne Ogle	Kenai Peninsula Borough Assembly
Fred Miller	Nikiski Community Council		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	When will the public be able to see options for the Kenai Spur Highway re-route? Is it true that the public will be able to see four or five options for the Kenai Spur Highway road reroute by early fall?
2	Stakeholder Issue	Will an investment decision be made by 2018?
3	Stakeholder Issue	What will happen to property next to the project area? What happens to the project properties if the project does not go forward?
4	Stakeholder Issue	Attendees expressed concern that Homeland Security will block access to their beaches and beach access. Is it possible to dig up the flowers and lilac bushes on the project's property?
5	Stakeholder Issue	Attendees at Nikiski Community Council expressed that they were disappointed there was no presentation at the recent open house and suggested that at the next open house the project give a brief introduction on the format of the event and possibly introduce the project team. Attendees felt it was good to have experts at the stations, but they were not knowledgeable on the overall project.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 12, 2015
Sub-Project Name	Integrated (All Segments)	Location	1016 West 6th Avenue, Anchorage, AK 99501
Meeting Subject	Labor study - engagement plan		

ATTENDEES			
Name	Organization	Name	Organization
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Paul Quesnel	BP Exploration Alaska
Joe Thomas	Alaska Department of Labor and Workforce Development (ADLWD)	Portia Babcock	ConocoPhillips
Lydia Johnson	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Engagement with AWIB and APICC required to expand labor study	
2	Commissioner Drygas wants tour of Nikiski plant	
3	Bechtel needs to work with Dan Robinson of ADOLWD on data	
4	Belugas - understand is still a concern	

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 13, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Anderson, AK
<b>Meeting Subject</b>	Anderson Community Meeting		

## ATTENDEES

Name	Organization	Name	Organization
Angel Rabon	AECOM	Michael Nelson	Alaska LNG Project
Beau Courts		Patty Murphy	E3 Environmental
Chip Morris		Sandi Trumbower	
David Sinclair	Paragon Partners Ltd	Shane Mangold	
George Haskins		Tasha Edwards Michael	Umiaq
Jon Bailey		Tim Kramer	AECOM
Lisa Gray	Alaska LNG Project	William Morris (Anderson Vice Mayor)	City of Anderson
Mark Jennings	Alaska LNG Project		

## DISTRIBUTION

Name	Organization	Name	Organization


## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Take to lands team: sticky note on map for cabin in Nenana on slough (see discussion item 5)
2	Stakeholder Issue	Is the pipeline going to be both above and below ground? What is the temperature of the gas in the pipe? What is the pressure of the gas in the pipe? Would the gas in the pipeline be straight from the wellhead, and would it still have the high-end products in it, such as propane? What is the State of Alaska's gasline entity? How would construction progress on the gasline—would you start from top and bottom? Would it be a separate process for the pipeline and the facilities? Would Alaska LNG put a road in and bring the pipeline down alongside the road? Would they build the road first or build both at the same time? Would Alaska LNG clear the 2,000 foot corridor?
3	Stakeholder Issue	We are hoping this project will be a go. Who is your main competition on this? What about opposition? Is there anyone trying to hold this back? Are there agencies coming in and trying to shut you down? I am concerned federal agencies will cause trouble for this project. Do you have letters of agreement for trade with countries, or are there no commitments? Where is the project on an export license?
4	Stakeholder Issue	Why is the route not by the railroad? Is the route on the opposite side of the river part of the time? Where does the proposed route go when passing by the front of the Denali National Park entrance? The project shows the proposed route coming in close to Nenana.
5	Stakeholder Issue	How would the gasline go under Cook Inlet?
6	Stakeholder Issue	Is Alaska LNG following the TAPS corridor to move from the North Slope to the Interior?
7	Stakeholder Issue	My daughter's property is in the corridor near Nenana. She is right on the slough; will her property be affected?

8	Stakeholder Issue	Do you think construction for the project will start while I am still alive? Would construction begin in 2018, and end around 2022 or 2023?
9	Stakeholder Issue	Where are the off-takes going to be located? Are there going to be any off-takes near Anderson? I think for the Anderson area there could be an off-take point with a distribution plant for homes and businesses which creates jobs in an area like this between Fairbanks and Anchorage where the economy is fairly depressed.
10	Stakeholder Issue	Has the project done any drilling and soil samples?
11	Stakeholder Issue	Is Alaska LNG testing the ground to find out if there is muskeg or water?
12	Stakeholder Issue	Do you have an office in Fairbanks? Is the presentation from the Alaska LNG business sessions available? In the slides there was a list of some of the types of businesses that might be needed to support the project. That list could inform communities about how they might get involved and best support the project. Alaska LNG should be in the high schools talking to seniors so they could get involved in the trade and get paid. There are a lot of high speed energetic kids who would love to be part of this project.
13	Stakeholder Issue	With all the national park land, how are you dealing with federal right-of-ways on the project?
14	Stakeholder Issue	Having Alaskans working on this project without schooling would make it difficult for you to have a hand you can use. To me, training is a big play on this project. Alaska Works is really looking at getting training for people. If there is a school out there that requires three years of study and hands-on training before being a viable craft, then now is the time to plan and enroll. What kind of training do potential employees need, where can they get it, and to whom do they talk? That is a local concern in Anderson.
15	Stakeholder Issue	We want you to hire people from Anderson and people from Alaska.
16	Stakeholder Issue	I want to know the availability of the material and equipment to construct the project. Anderson has a lot of land with a lot of gravel, so they would like to see the project contact them for the work that is happening in the general area. We would like to be on your list of people to consult for gravels right out of the pit. Roadhouses and bed and breakfasts are interested in serving the project.
17	Stakeholder Issue	If you are going to have a presence for 25-30 years, you might as well hire locally. Our kids will be there for that amount of time and could be some of your key operators for the duration of the project. We want to see economic diversity and structure happen in the Anderson area.
18	Stakeholder Action Item	Anderson has a lot of land with a lot of gravel, so they would like to see the project contact them for the work that is happening in the general area.
19	Stakeholder Issue	I would like the State of Alaska to help with the energy costs. We would like to have propane on the Yukon River. If you can take care of the villages, things would be a lot smoother for the state.
20	Stakeholder Issue	Are you going to be punching a road out of Nenana to hook into that for a supply area, and then maybe another road down here by the Rex Bridge?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 13, 2015
Sub-Project Name		Location	3800 Centerpoint Drive, Anchorage, AK 99503
Meeting Subject	Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Gabreil Kompkoff	Chugach Region Inc	Steve Butt	Alaska LNG Project
Hans Neidig	ExxonMobil	Portia Babcock	ConocoPhillips
Kathy Mayo	Kathy Mayo & Associates		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 13, 2015
Sub-Project Name		Location	2525 C Street, Anchorage, AK 99503
Meeting Subject	Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Hans Neidig	ExxonMobil	Steve Butt	Alaska LNG Project
Kathy Mayo	Kathy Mayo & Associates	Portia Babcock	ConocoPhillips
Sophie Minich	Cook Inlet Region Incorporated (CIRI)		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 13, 2015
Sub-Project Name		Location	11500 C Street, Anchorage, AK 99515
Meeting Subject	Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Aaron Schutt	Doyon Limited	Steve Butt	Alaska LNG Project
Hans Neidig	ExxonMobil	Portia Babcock	ConocoPhillips

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 13, 2015
Sub-Project Name		Location	909 West 9th Avenue, Anchorage, AK 99501
Meeting Subject	Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Hans Neidig	ExxonMobil	Wayne Westlake	
Kathy Mayo	Kathy Mayo & Associates	Portia Babcock	ConocoPhillips
Steve Butt	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 14, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Nenana, AK 99760
<b>Meeting Subject</b>	Nenana Community Meeting		

## ATTENDEES

Name	Organization	Name	Organization
Angel Rabon	AECOM	Lisa Gray	Alaska LNG Project
Bart Garber	Toghotthele Corporation	Mark Jennings	Alaska LNG Project
Bonnie Reed		Mary Lou Ketzler	
Carl Horn		Michael Nelson	Alaska LNG Project
David Sinclair	Paragon Partners Ltd	Patty Murphy	E3 Environmental
Dixie Dayo	Dixie Dayo Consulting	Philip Argall	
Donald Charlie (Nenana Council)	Nenana City Council	Sarah Obed	Doyon Limited
Elijah Verhagen		Tasha Edwards Michael	Umiaq
Ezariah Tommy		Tim Kramer	AECOM
Irene Martin		Tory Jensen	
Janet Allen		Victor Lord	
Jeri Knabe		Wes Alexander	
Larry Ketzler		William Lord	Nenana Native Council

## DISTRIBUTION

Name	Organization	Name	Organization


## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Issue	The State of Alaska has 25 percent equity; does that mean they have invested 25 percent? Would the State of Alaska recoup their 25 percent investment and generate revenue for the state? Why is the gas not liquefied at the point where that they take it out? Why are you pipelining it as a gas? Would it be a 42 inch pipe? What would be the pressure in the gasoline? Would the gasoline be above ground? How deep would the pipeline be buried? How many miles is the pipeline? Would some of the gas be sold to domestic markets? What is the estimated life of the current reserve? Are you connected with Alyeska, or is this going to be a joint venture with something else?
2	Stakeholder Issue	What is GTP? How big is the footprint of the facility on the North Slope compared to the one on the Kenai Peninsula?
3	Stakeholder Issue	How many acres is the proposed LNG facility? Would you incorporate the current LNG facility into a larger one? Where is the proposed LNG facility? Is Nikiski's dock past the LNG facility?
4	Stakeholder Issue	How far would the highway realignment be?

5	Stakeholder Issue	When crossing rivers, would the gasline be underground? How would you cross the Yukon River? Does the route cut out there on the island on 17 Mile Slough? Does it cross the Nenana River? Would the route cross the Teklanika River?
6	Stakeholder Issue	Is the project going to route the gasline to Nikiski and then branch off to Fairbanks, Anchorage, and other areas?
7	Stakeholder Issue	Is the plan for the route to take off at Livengood and go right along the foothills and hook up at Dunbar and follow the railroad easement? Would the route pass through the Minto Flats? Would the route cross the railroad easement? What is the proposed route in the Nenana area?
8	Stakeholder Issue	Is the project planning construction to start in 2018? Are the facilities planned for this project the main components determining the timeline of construction; is the pipeline a comparatively minor piece of timing considerations?
9	Stakeholder Issue	Is there going to be a right-of-way? My trap line runs right there where you show this trail along the foothills by Dunbar and the railroad tracks. Is that going to kick me off my trap line? I am confused about Alaska LNG versus contact ASAP made with land owners in previous years for private property access.
10	Stakeholder Issue	Would the project avoid all Native allotments?
11	Stakeholder Issue	Would there be a spur to Nenana? Does this project bring gas to the Interior?
12	Stakeholder Issue	What kind of benefits is Nenana going to get from this project since the gasline would pass right by us? Would gas be less expensive for Nenana with implementation of this project? Comments regarding support of tax money being used for schools and training facilities.
13	Stakeholder Issue	Would there be jobs? For TAPS, road construction is what really created the outside labor problem because we had eight or nine contractors competing for labor. It was like the Gold Rush. There would already be roads most of the way for this project, but for TAPS we had to build roads first. Do you know what the labor demands will be for the pipeline near Nenana versus what happened for TAPS? Have you looked at the labor agreement for TAPS? It is the one drafted in the first place and the Native Corporations are not happy with it. TAPS were obliged to hire early on, then later made some big efforts late in the game right about the time when labor forces were being diminished and automation was being brought. For TAPS, there were teams on isolated sections of the pipeline. Would there be work camps like TAPS? Has the project been working with any unions? They have facilities for training.
14	Stakeholder Issue	I am concerned about the Minto Flats because they are prime breeding ground. The project should not put any structures there; it is prime habitat.
15	Stakeholder Issue	Would it be the legislature or AGDC to decide the off-takes?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 15, 2015
Sub-Project Name		Location	Tyonek, AK
Meeting Subject	Discuss proposed Tyonek Lands.		

ATTENDEES			
Name	Organization	Name	Organization
Claire Joseph	Alaska LNG Project	Michael Nelson	Alaska LNG Project
Lisa Gray	Alaska LNG Project	Rosetta Alcantra	E3 Environmental
Mark Jennings	Alaska LNG Project	Steve McDaniel	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 20, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Wiseman, AK
<b>Meeting Subject</b>	Wiseman Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Angel Rabon	AECOM	James Burroughs	
Annette Burroughs		Josephine Chingliak	E3 Environmental
Berni Hicker	Wiseman Community Association	Lisa Gray	Alaska LNG Project
Heidi Schoppenhorst	Wiseman Community Association	Patty Murphy	E3 Environmental
Jack Reakoff (Wiseman address)	Wiseman Community Association	Tom Hobrie (Coldfoot)	

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Let field worker team know that moose hunting season starts August 25.
2	Stakeholder Action Item	Get back to community with exact distance the LNG line will run from the TAPS line.
3	Stakeholder Action Item	Get community comments regarding material sites to the Pipeline Routing Workshops.
4	Stakeholder Action Item	Inform GIS staff that secondary road does not exist.
5	Stakeholder Action Item	Get back to community with location of the compressor site.
6	Stakeholder Issue	How big is the right-of-way? What is the temperature of the gas in the line? How much gas is there? How many years would the gasline be in use? Is this project going to have pump stations? What distance will this line be from TAPS? There has been a lot of discussion about paving the road along the mountain. I like your project a lot better than the ASAP line. What is FEED?
7	Stakeholder Issue	Is the project going to ship the gas to Spain? Would gas go to the Lower 48 states? Does the lower 48 not want you selling gas there? Is it more profitable to sell the gas overseas? What if the economy had a really bad turn again; would that affect this project?
8	Stakeholder Issue	Is this red line [on map] for sure? ASAP was drilling over here to the west of this, so this corridor is not quite what we have been looking at. I am concerned about the location of the compressor site [in the vicinity of Wiseman]. Where is the compressor station the most near to Wiseman going to be located? What distance would the Alaska LNG gasline be from TAPS? Is the information on the camp sites for Alaska LNG confidential? Could you use the old Dietrich camp? We would rather you reuse that one than disturb new ground for a new camp.
9	Stakeholder Issue	There is not enough space for this corridor through Atigun Pass.
10	Stakeholder Issue	If everything goes according to the plan, when would the project start construction?
11	Stakeholder Issue	Are these schematics on the Alaska LNG website? I had a lot of comments from ASAP I can email you with information on Wiseman's preferred materials sites.
12	Stakeholder Issue	How are the off-takes going to use the gas from there? Are the off-take points not like a propane bottle system or something similar?

13	Stakeholder Issue	ASAP had proposed material sites ringing Wiseman and Wiseman residents were very unhappy about their site selections.
14	Stakeholder Issue	How does this project benefit Alaska? How does it benefit the Wiseman area? Why is gas not less expensive in Alaska since the gas is extracted in the state?
15	Stakeholder Issue	Other community properties are not shown on map.
16	Stakeholder Issue	Secondary road on map does not exist.
17	Stakeholder Issue	Where would the gasline go from Livengood? Would it go to Fairbanks?
18	Stakeholder Issue	Would the project revegetate the path? Would the project avoid revegetating with invasive species? Along the roads the hydro seeders spray invasive seeds. Is the EIS complete?
19	Stakeholder Issue	If the project could avoid this path [in the vicinity of Wiseman], it may preserve the great view of the mountain.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAI-PE-SAMOM-00-000023-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 21, 2015
Sub-Project Name		Location	Anchorage, AK
Meeting Subject	Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Karen Wuestenfeld	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 21, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Tyonek, AK
<b>Meeting Subject</b>	Tyonek Community Meeting		

## ATTENDEES

Name	Organization	Name	Organization
Claire Joseph	Alaska LNG Project	Michael Nelson	Alaska LNG Project
David Sinclair	Paragon Partners Ltd	Oscar Evon	E3 Environmental
Donita Slawson		Pedro Goozmer Jr.	
Jenny Stephan		Robert Stephan	
Larry Heilman		Ron Burnett	
Marian King		Rosetta Alcantra	E3 Environmental
Mark Jennings	Alaska LNG Project	Seraphim Stephan	

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Action Item	There is an earthquake fault line at the bluff and terrible beach erosion. It would be a lot cheaper to go down to Trading Bay and then going across. Take that back to the design team. Q1 2016 to be addressed.
2	Stakeholder Action Item	Get back to the community with more information about how many dB the small air guns will be.
3	Stakeholder Action Item	The beach erosion has resulted in that area losing up to 20 feet over the last 20 years from winds and earthquakes. Take that back to the design team. To be completed Q1 2016.
4	Stakeholder Issue	Is this gas earmarked for market to be shipped overseas? Would there be generators like the pump stations for TAPS? Is this different from the TAPS we have now? Is there going to be a road alongside this pipeline? I understand that the smaller pipeline, the ASAP Project, is going to be involved in the bigger pipeline. So is it possible the smaller one can give us gas?
5	Stakeholder Issue	Does Nikiski already have an LNG facility?
6	Stakeholder Issue	There is a serious fault line where you are proposing doing directional drilling in Cook Inlet. Are rivers crossings an issue with archaeology? Is the pipeline planned to be buried under the Cook Inlet? How deep would you bury the pipeline; how far under water would it be at the lowest tide? The Tyonek area has lost a lot of beach down in the last 20 years, enough where if your pipe were 20 feet deep it would be showing.
7	Stakeholder Issue	Would this project's gasline run alongside TAPS? Where is the proposed route in relation to the Chulitna River? Will the project have the route more finalized by the end of the summer?
8	Stakeholder Issue	Why are you not staying onshore and going down to Trading Bay? At Talkeetna, you should go straight down the backside of Susitna here and go in through Trading Bay. Why does the proposed route go to Nikiski? Why not Point MacKenzie? Is there a pump station near Beluga?
9	Stakeholder Issue	Is this project routing to Valdez?

10	Stakeholder Issue	Are the communities the gasline is going through or near going to be able to tap into the gas?
11	Stakeholder Issue	What company do you use for Cook Inlet surveys? Are you doing Cook Inlet surveys this summer? Will your field studies adversely impact commercial fisheries?
12	Stakeholder Issue	Who are the archaeologists? Was anyone from Tyonek tasked with researching cultural sites? Has the project looked into cultural sites near Tyonek? One of the problems we had with PacRim was their archaeologists hid their information from us. That is our people, our history. We do not want to run into that same problem again. There are house pits where the corridor is proposed to cross.
13	Stakeholder Issue	Are you going to be able to meet with the Tyonek Native Corporation about this project?
14	Stakeholder Issue	Is Alaska LNG having any training or opportunities for Tyonek residents to work on the project from start to finish? Are you also going to get the information out there so people can get themselves together to be a part of the project?
15	Stakeholder Issue	Tyonek does not want to stop industry; we like the jobs, but we want to be responsible. We in Tyonek want our history preserved. It is not just house pits out there, it is burial sites.
16	Stakeholder Issue	Would the testing signals affect fish returning? Would the noise from blasting affect fish and wildlife?
17	Stakeholder Issue	At Kaksik they had some blasting approved at 60 dB above, how does that compare to the small air gun?
18	Stakeholder Issue	Resident private property north of Ladd Landing.
19	Stakeholder Issue	Fault line on map
20	Stakeholder Issue	Can you make sure the state knows Tyonek wants gas?
21	Stakeholder Issue	Would this project be union work?
22	Stakeholder Issue	Tyonek has already lost our beluga whale hunting, so we are stingy for our fish. We are worried about more of our subsistence being disrupted and diminished. The Cook Inlet is our grocery store. Our village is only 180 people, but our tribe is 1,200 across the state. Our tribe is concerned.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 22, 2015
<b>Sub-Project Name</b>	Marine Terminal, Gas Pipeline	<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Subsistence Discussion for Cook Inlet G&G IHA - Kenaitze Tribe		

## ATTENDEES

Name	Organization	Name	Organization
Brenda Trefon	Kenaitze Indian Tribe	Rosetta Alcantra	E3 Environmental
Claire Joseph	Alaska LNG Project		

## DISTRIBUTION


Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Cook Inlet G&G Summer Scope	Claire Joseph explained the planned scope of work for geophysical and geotechnical surveys in Cook Inlet, including: equipment, location, timing, and permitting. She said that the purpose of the meeting was to identify any potential subsistence conflicts with the engineering survey program planned for 2015 in Cook Inlet. Brenda explained that additional members of the Kenaitze Tribe had been invited, but attendance was likely low due to the upcoming holiday weekend.
2	Subsistence Uses - Fishing, Moose Hunting	Brenda explained that it would be important for the summer engineering studies to avoid conflict with fishing season. She said that moose hunting occurs in coastal areas during the September/October timeframe, so if the Project was completing surveys in the later summer/early autumn in order to avoid fishing season, and if there was significant noise emitted above the water by the equipment/operations, then hunters could get upset. On the survey map, Brenda pointed to nearshore areas where moose hunting could occur, including: along western shore of Cook Inlet near Tyonek and Beluga and on the eastern shore of the Cook Inlet above the forelands and adjacent to Nikiski. During this discussion, no subsistence conflicts were identified for applicable marine mammals (i.e. beluga whales, killer whales, harbor seals, harbor porpoises).
3	Pipeline routing to avoid cultural resources	Brenda explained that the proposed pipeline routing between the villages of Tyonek and Beluga appeared to be located in a region of known cultural resources. Specifically, that region was known to be the site of a historical Dena'ina village, and that homes and burial sites are still located there. She requested that the Project avoid that area due to the cultural and historical significance to Alaska natives. She also explained that the area is currently being considered for designation as a cultural landscape by the National Park Service.
4	Summer Camp	Brenda asked whether the Project would be willing to collaborate and/or participate in a summer camp for kids which will be held during the second week of July 2015. Brenda explained that the purpose of the camp is to increase exposure of Alaska Native youth (primarily high school and middle schoolers) to science, technology, engineering, and mathematics (STEM). She said that she would like the youth to have a chance to see the geotechnical and geophysical equipment being used for Alaska LNG Project surveys in the Nikiski area, and she would like the youth to meet the engineering teams/crews with careers in STEM fields. The Kenaitze summer camp program is being planned in cooperation with and/or with funding from University of Alaska, Fairbanks (UAF) and the Bureau of Indian Affairs (BIA). A feature of this summer's program will be the EPSCoR sandbox to teach the youth about geology ( <a href="https://www.alaska.edu/epscor/">https://www.alaska.edu/epscor/</a> ). Brenda said that the last possible date to arrange something would be July 1. Rosetta and Claire said that they would bring the request to the Project, and that there could also be opportunities for the youth to learn about other engineering/science fields through the environmental and cultural surveys also being conducted in the area. Another idea that Brenda raised was the opportunity to develop an Alaska LNG curriculum that could be used for math/science credits for schools or home schooling.

5	Additional Comments	Claire and Rosetta left extra copies of the slide pack which was used for discussion with Brenda so that Brenda could provide them to other members of the Kenaitze tribe. Claire, Rosetta, and Brenda also exchanged contact information, and Claire encouraged Brenda or other members of the Kenaitze Tribe to provide any additional comments or questions to the Project.
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000013-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Phone Call	Date of Meeting	May 26, 2015
Sub-Project Name		Location	Anchorage, AK
Meeting Subject	Subsistence Discussion for Cook Inlet G&G IHA - Salamatof		

ATTENDEES			
Name	Organization	Name	Organization
Chris Monfor	Salamatof Native Association Inc	Claire Joseph	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	No Conflicts/Concerns	Mr. Monfor returned my call regarding potential subsistence conflicts for the Cook Inlet G&G Program. He said that they have 'no concerns' with the planned survey program. I offered to send him electronic copy of the survey program summary and he agreed, providing me his email. He stated he would plan to share the information with his Board of Directors. No further communication is planned.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	May 28, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Minto, AK
<b>Meeting Subject</b>	Minto Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andrew Jimmie	Minto Village Council	Michael Nelson	Alaska LNG Project
Barbara Jimmie		Oscar Evon	E3 Environmental
Charles Jimmie		Patty Murphy	E3 Environmental
Chris Charlie		Peter Woods	
Eva Welch	AECOM	Roger Alexander	
Gareth Baker		Ronnie Silas	Seth-De-Ya-Ah Corporation
John Charlie		Steve McDaniel	Alaska LNG Project
Josh Weiser		Vanessa Joseph	
Lynnessa Baker		Vera Weiser	
Mark Jennings	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Keep Minto informed of workforce development updates.
2	Stakeholder Issue	Is the state doing this project? Is there another company that is doing the same thing? What is the size of the pipe you are going to use? Who would buy the gas from you? Would you bury the pipeline? Is processing done on the North Slope or the terminus before the gas is shipped? How long would the gasline last, and how much gas is there? How does dirt come out when you are drilling? How does horizontal directional drilling work? Are you doing anything like what was done on the Kenai? We have a 48 inch oil pipe now, and it is only what, one-third full? Is that how it will be with the gas? What about filling up the other two-thirds of the oil pipeline with a gas pipe and sticking it through the whole thing? I do not understand this other ASAP Project—you have two companies trying to do the same thing. What is going to happen? Will one be pushed out? Who is funding them? Is it the same group? Minto is impatient for a gasline to be constructed.
3	Stakeholder Issue	How is so much money being invested on a hope for a project? Would burying the pipeline have an added cost? It seems ineffective to be paying for both Alaska LNG and ASAP right now. Why would the state not approve the financial package for the project?
4	Stakeholder Issue	Is the project they are proposing in Fairbanks competition for Alaska LNG? How is getting gas from here versus the lower 48 is more effective since it seems to be so abundant down there. Why Alaska?

5	Stakeholder Issue	How would you cross rivers? How would you go underneath rivers? Would you cross the Yukon River or Tanana rivers, and how would you cross them?
6	Stakeholder Issue	Where is the gasline routed? How far away would your gasline be from Minto?
7	Stakeholder Issue	What is the time frame on this project?
8	Stakeholder Issue	When does construction start?
9	Stakeholder Issue	Would the project try to get gas to all the villages all the way down the line? We were told they were, but lately I have not heard anything. Is the project thinking maybe 25 miles from Minto? Would size spur line would you need to get gas to Minto? Will you know where the project off-takes will be by the end of summer? Would any villages get gas?
10	Stakeholder Issue	How many meetings have you had? Are you looking for support of the project? Exactly what kind of feedback are you looking for? If the project presents to the school (Minto would like this to happen), tailor it to different ages. The project does not need to come to Minto often, only when there are critical updates.
11	Stakeholder Issue	Did you let the village council know you were coming? Next time you come to Minto, bring a workforce development coordinator to give us direction on schooling or training to work on the project.
12	Stakeholder Issue	Unless you provide benefits to Minto, we will not approve the project.
13	Stakeholder Issue	Are there any studies on the environmental footprint of processing the gas?
14	Stakeholder Issue	I do not want anything in the water. We have enough trouble getting our salmon. You are going to do something to the fish putting in a 48 inch pipe down under the river.
15	Stakeholder Issue	How do you fix a spill or a leak with water crossings, such as the Yukon River?
16	Stakeholder Issue	How safe would the gasline be? What precautions are being taken for sabotage of the gasline? Someone shot a hole in the oil pipeline. What happens if someone does the same thing to a gasline?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

Meeting Type	Meeting/Workshop	Date of Meeting	May 31, 2015
Sub-Project Name		Location	Kenai, AK
Meeting Subject	Meeting minutes for KPFA meeting		

## ATTENDEES

Name	Organization	Name	Organization
Andy Hall	Kenai Peninsula Fisherman's Association	Paul Shadura	Kenai Peninsula Fisherman's Association
Josselyn OConnor	Alaska LNG Project	Sarah Frostad-Hudkins	Kenai Peninsula Fisherman's Association
Ken Coleman	Kenai Peninsula Fisherman's Association	Todd Smith	Kenai Peninsula Fisherman's Association
Lisa Gabriel	Kenai Peninsula Fisherman's Association		

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Issue	Questions about the size of the tankers. Questions regarding the Cook Inlet crossing.
2	Stakeholder Issue	Stressed reaching out to the area families and encouraged often and good communication with them.
3	Stakeholder Issue	The group asked about the proposed LNG facility area. The group was most concerned about potential leaseholders in the area. An attendee asked about the size of the proposed LNG carriers and the Cook Inlet pipeline crossing.
4	Stakeholder Issue	The group advised that it would not be possible for any beach work to take place in July due to large cables crossing the beach from the high bluff and increased activity. They did not even think we could get large equipment through. Attendee looked at the tide table and said July 4th has optimum tides and likely will be a very busy weekend on the beach getting sites ready.
5	Stakeholder Issue	Participants suggested that focusing communication on the potentially affected lease holders was best. It is beneficial that the lease holders would get contacted by the Alaska LNG team when beach work was coming up. Attendees encouraged the team to visit a working site, and stressed reaching out to the area families. An attendee invited Alaska LNG to attend a fisherman's picnic on/near July 4th. Early and frequent communication with leaseholders is important.
6	Stakeholder Issue	The board did not think it would be necessary to attend their annual meeting later in June. They suggested a visit in the fall with an update on the outcomes of the field season.
7	Stakeholder Issue	The group briefly asked about the marine traffic.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	June 1, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Talkeetna, AK 99676
<b>Meeting Subject</b>	Talkeetna Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Angel Rabon	AECOM	Mark Stasik	
Billy Schayler		Matthew Horneman	Alaska LNG Project
James Kari		Michael Nelson	Alaska LNG Project
Jerry Raychel		Miles Baker	Alaska Gas Development Corporation (AGDC)
John Strassenburgh		Neil DeWitt	
John Wood		Patty Murphy	E3 Environmental
Josephine Chingliak	E3 Environmental	Peter Mathiesen	
Kit Marrs		Sheila Lankford	
Lisa Gray	Alaska LNG Project	Tasha Edwards Michael	Umiaq

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Add contact information for citizens advisory panel request from John Strassenburgh.
2	Stakeholder Action Item	Discuss need and timing for regional citizens advisory councils.
3	Stakeholder Action Item	The Montana Creek bridge and Sheep Creek bridge are going to have replacement construction started in 2016.
4	Stakeholder Issue	Is this project a public-private combined operation? How much of the 2,000 foot corridor would be cleared? For choosing pipe metal, is Alaska LNG protecting for corrosion on the inside or on the outside? If this project goes through, is there a chance it will delay or end the proposed Susitna-Watana Dam? There are a lot of people who do not want the dam. Would there be a gas conditioning facility? What about propane from the North Slope? Could an LNG facility in Fairbanks someday pull propane out of the pipeline gas? How are other projects, such as the Fairbanks North Slope LNG study and smaller LNG projects in Cook Inlet affected by this project? Is this project connected to other proposed LNG projects in Alaska? I am supportive of the concept for this project, but it does seem like it is advancing in a complicated way. What do you think about in-state demand?
5	Stakeholder Issue	How much does it cost for a facility at the off-take to convert the pipeline gas into gas for utilities? In general terms, is it millions, tens of millions, or hundreds of millions for each off-take? How is the current state fiscal circumstance going to affect this project? There is a pending state government shut down. If something costs more but would benefit a community or individual, will you consider benefits aside from monetary ones?
6	Stakeholder Issue	Is the pipeline actually buried when crossing Cook Inlet? How would you cross the Yukon River? Would there be a bridge?

7	Stakeholder Issue	Would the pipeline corridor be parallel or near the existing pipelines that cross the Cook Inlet? Does the proposed route have a 2,000 foot corridor for the length of the pipeline?
8	Stakeholder Issue	How come there are two places on the map where the route could go—one to go west and one to go east? If the route would divert from the highway here, why would this be a good place to have your off-take to go to Anchorage?
9	Stakeholder Issue	When will the route for the gasline be finalized? Would a special legislative session have to be after the regular session is over? No one makes decisions on these things overnight; should this schedule be shifted by six months?
10	Stakeholder Issue	How about land status along the corridor? Have you made deals with the land owners or is that still in negotiations? How would access and cross-paths be handled for maintenance and construction roads for the pipeline? How would this project handle public access to the pipeline corridor once it is in operation? Access is very important to local communities for support of the project. There is a lot of confusion over access rights for existing pipeline and utility corridors. Access was closed for the Beluga powerline. Design benefits for the pipeline which are not quantifiable are important, such as access to my cabin. There is more private property on the eastern route. The Montana Bridge and Sheep Creek Bridge are going to have replacement construction started in 2016; just a heads up in case that would affect your project. If there is a temporary construction road on private property, will an effort be made by the project to reclaim it before moving on?
11	Stakeholder Issue	How many off-take points do you anticipate? Is there a list of the five to ten potential off-take points right now? Would there be an off-take for Wasilla or with Enstar?
12	Stakeholder Issue	The coal fire power plants, such as the one in Clear, are waiting to hook on to gas. It would be a big plus to get natural gas to run the electricity instead of coal.
13	Stakeholder Issue	It is important for the project to come out to do outreach and stay in contact with people. I suggest having a citizen's advisory committee or board for this project. Perhaps there could be multiple citizen committees organized by geography along the pipeline route. ASAP could have done a better job with communication when their citizen committee was formed, and I want to make sure Alaska LNG stays in contact with me if they form a citizens group.
14	Stakeholder Issue	When you determine your final corridor to be cleared, will you allow locals to go in there and cut or collect firewood? This has been done in the past for other projects with varying restrictions and logistics.
15	Stakeholder Issue	Please hire local people for field work, including the bear guards. By local, I mean from the local community not just from Alaska. If you are going to work in our area, it is good to hire Alaskan, but the better thing is to hire from Trapper Creek. Can you put local community hire as a goal for your study plans?
16	Stakeholder Issue	The proposed route deviates from TAPS, which puts demands on the archaeological reconnaissance.
17	Stakeholder Issue	How would the project deal with casual recreation use of the pipeline corridor, such as travel with off-way vehicles and snowmachines, once the gasline is in operation? There is confusion over legal rights of access. The corridor is going to attract moose, and residents will want to use the corridor like the Intertie powerline corridor is used now for recreation.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	June 2, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Trapper Creek, AK
<b>Meeting Subject</b>	Trapper Creek Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Angel Rabon	AECOM	Martin Bee	
Brian Okonek		Matthew Horneman	Alaska LNG Project
David Palmer		Michael Nelson	Alaska LNG Project
Denise Richardson		Miles Baker	Alaska Gas Development Corporation (AGDC)
Diane Bee		Neil DeWitt	
Josephine Chingliak	E3 Environmental	Patty Murphy	E3 Environmental
Kristie Parsons		Sandra Sloan	
Lisa Gray	Alaska LNG Project	Tasha Edwards Michael	Umiaq
Mark Jennings	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Is this is a 2,000 foot corridor? How much of the corridor would be cleared, and what is the process for narrowing down to the final corridor width? Would the gas from the North Slope come into play if we needed more on a winter's day, and the rest would be sold on the international market? The project just got a conditional permit to export 2.55 billion cubic feet (bcf) per day, is that a preferred number on your side against the 3.5 bcf? Is there going to be a road along the gasline corridor for maintenance? How far apart are the block valves? Do you prefer to have road access to block valves? The ASAP Project and the Alaska LNG Project need to work together. Is there going to be a compressor station in the Trapper Creek area? What is the footprint for a compressor station?.
2	Stakeholder Issue	Would the project use the existing LNG facility in Nikiski? Is there a reason to use Nikiski instead of Tyonek or Point MacKenzie?
3	Stakeholder Issue	My thought is it would be less expensive to build the LNG facility in Point MacKenzie than pay the cost of running the pipe across the water to Nikiski. Who would pay for the off-take infrastructure?

4	Stakeholder Issue	I can see why the proposed route is across the Chulitna River at this pinch point, but it also crosses Troublesome Creek where there is a wayside. It would be much less destructive to this whole area if you could cross and exit north of the confluence. Mileposts 131 and 127 are major access points for recreational cabins in this area south of Denali National Park. The closer the route could stay with the highway and avoid getting back into the recreational cabins would be greatly appreciated. The pipeline is still on the wrong side of the Parks Highway. You should be on the east side of the Parks Highway; we have a recreational trail over there and it is all public land except for a section line going through a couple agricultural parcels on the other side. There is a clear alternative; you could easily cross the east side of the highway and stay there for the next ten miles going south. Why is there an eastern and a western route at the southern end? Why is the west route preferred by Alaska LNG? Did project engineers adjust the gasline route in response to our previous concerns?
5	Stakeholder Issue	Why use Nikiski over Tyonek or Point MacKenzie for the LNG facility? Another place for the LNG facility would be out there by Point MacKenzie. Point MacKenzie is trying to get that road across from Anchorage, and this project would be a good reason to do that. It would be like two projects in one. After hearing response to reason for Nikiski's selection, commenter stated, "I knew there was more to it than I knew. Sounds good."
6	Stakeholder Issue	How long would each work camp be in operation? Would there be sections put together during summer which would require project staff coming back in the winter to finish?
7	Stakeholder Issue	ADOT&PF suggested an easement and road in the Trapper Creek area to get the gravel out. When are you going to get permission from the private property owner for this phase? What if a land owner does not want you to go across their private property, and Alaska LNG says it is necessary to go across. What do you do then? I have heard the corridor will still be accessible to the public and I have also heard the corridor would be locked off from the public; which is correct? The corridor is the state public land, so we have the right to access it. The corridor would likely be used by snowmachines and off-highway vehicles. My property is accessible by Parks Highway mileposts 105, 106, 108, 109, how am I supposed to get to it if project trails are cut and some turned into right of ways? I am particularly concerned when the project would lay pipe five miles west of the highway, but not when the route is right along the highway. Is the project concerned with people crossing over the corridor? Would it be safe for us to cross? The corridor could make it easier for outsiders to come in and tear things up in the Trapper Creek area. Privacy and our ability to deal with non-local recreationists in the area are important to Trapper Creek.
8	Stakeholder Issue	Could you transport gas with barges from Nenana, and taking them down the Tanana and Yukon rivers? What about Anchorage and Mat-Su and using Cook Inlet gas? To get domestic gas from this pipeline, where on this west route would you tap into it?
9	Stakeholder Issue	When is the next meeting? If we give you an email can you let us know about the meetings? I learned from a neighbor about this meeting tonight. October would be a better time for the next meeting in Trapper Creek because it is after moose season; you will get better attendance then. When you are using a helicopter in the Trapper Creek area, people question why. If you can announce on the radio when that is going to happen, we will be a lot more receptive out here. The project could tell us what is going on between this mile mark and that mile mark, for this week or whatever. The FERC website is hard to navigate. Are any of your resource reports online? Trapper Creek is savvy to adjusting the gasline route, and we want concrete reception for our comments.
10	Stakeholder Issue	To what agency are you submitting project resource reports?
11	Stakeholder Issue	What if the project does need to route through my land? What benefits are you bringing? Are you establishing hardened trails? Those who are impacted have to see benefits from the project.
12	Stakeholder Issue	Would the whole corridor be cleared? Between the Chulitna Bridge to the Susitna Bridge is the sensitive area of the route for Trapper Creek.
13	Stakeholder Issue	The pipe must cross between here and the Cook Inlet, including passing over several major faults. How does the project do that? Would you elevate the pipe? If the land shifts and the pipe moves thirty feet, I am concerned it is not going to withstand it. Alaska LNG needs to study the maps and the terrain carefully to pick out the problems.
14	Stakeholder Issue	How would you access the pipe or how would you respond if there were an issue where it is underground?
15	Stakeholder Issue	Would the pipe still be underground when passing through wetlands? The work camps could impact wetlands.
16	Stakeholder Action Item	Potential gravel pit with existing ROW easement from Mat-Su Borough
17	Stakeholder Issue	Trails maintain access all year around: 9 Mile Creek and Trapper Lake.
18	Stakeholder Issue	Where the pipe does need to come above ground, will it be high enough for wildlife to cross under it like TAPS?

19	Stakeholder Issue	On the east side of the Parks Highway, the highway would be more visible from the ridgetop. If the route was on the west side and the Parks Highway was still screened, you would see the Alaska Range and possibly enhance the view from the Parks Highway. The gravel pits from the highway construction have finally grown in, and they are almost invisible. I imagine you will need considerable gravel for this project, and it will be ugly.
20	Stakeholder Issue	Would the compressor stations be noisy? There are interesting acoustics in the Trapper Creek area as I can hear the trains seven miles down the highway in Talkeetna.
21	Stakeholder Issue	Could the state build a bike trail on the right of way? Could there be a bike path or snowmachine path adjacent to the corridor in the Trapper Creek or Denali State Park area? A road or path through Denali State Park would have benefits. It would be great to get some recreational benefits out of this project. The work camps could impact salmon fishing holes and recreational trail use. Did you ever get the Matanuska Trails information? The corridor would likely be used for travel by snowmachines and off-highway vehicles, with advantages and disadvantages to that access. Concerns noted for the route passing too close to access points for recreation cabins south of Denali National Park and too close to Troublesome Creek which has a wayside used by recreationists. Comment that the east side of the Parks Highway if probably better, but a lot of hunting ground may be impacted. Mileposts 131 and 127 are major access points for recreational cabins in this area south of Denali National Park. The closer the route could stay with the highway and avoid getting back into the recreational cabins would be greatly appreciated. The pipeline is still on the wrong side of the Parks Highway. You should be on the east side of the Parks Highway; we have a recreational trail over there and it is all public land except for a section line going through a couple agricultural parcels on the other side. The corridor could make it easier for outsiders to come in and tear things up in the Trapper Creek area. Privacy and our ability to deal with non-local recreationists in the area are important to Trapper Creek.
22	Stakeholder Action Item	Take routing concerns back to design team.
23	Stakeholder Action Item	Consider radio PSAs to advertise meeting.
24	Stakeholder Action Item	Consider communication system on the radio for field work, such as helicopter use.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

MEETING DETAILS			
Meeting Type	Community Meeting/Open house	Date of Meeting	June 3, 2015
Sub-Project Name		Location	Palmer, AK 99645
Meeting Subject	Wasilla-Palmer Community Meeting		

ATTENDEES			
Name	Organization	Name	Organization
Angel Rabon	AECOM	Lisa Gray	Alaska LNG Project
Bob Charles	Knik Tribe	Marc Van Dongen	Matanuska Susitna Borough Port Mackenzie
Bruce Zmuda	ENSTAR Natural Gas Company	Mark Jennings	Alaska LNG Project
Craig Lisonbee		Matthew Schmitt	Knik Tribal Council
Crystal Nygard (Business)	MatSu Business Alliance, Inc.	Michael Nelson	Alaska LNG Project
Dan O		Miles Baker	Alaska Gas Development Corporation (AGDC)
Daniel K. Shaw		Murph O	
Daniel Thomas	Thomas Aviation LLC	Patty Murphy	E3 Environmental
Daphne Barbosa		Raymond Theodore	Knik Tribal Council
David Sinclair	Paragon Partners Ltd	Richard Martin	Knik Tribal Council
Dianne Blumer		Ron Jr. McCord	
Eva Welch	AECOM	Rosetta Alcantra	E3 Environmental
Gerri Sumpter	Senator Lisa Murkowski's Office	Sarah Heath	
Gretchen O		Steven Dauwe	
Isabel Carpenter		Stuart Krueger	
Josephine Chingliak	E3 Environmental	Ted Berry	
Kim Fox	Alaska LNG Project	Tom Harris	
Kirsten Pedersen			

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

1	Stakeholder Issue	When the gas comes from the off-take is it suitable for utility use? How many compressor stations would there be and would they be connected to the road system? If the pipeline goes to the western route, are you planning on tapping into the Cook Inlet Beluga gas and taking it to Nikiski? Is there going to be an access road beside this route?
2	Stakeholder Issue	Is there a reason Alaska LNG could not build an LNG facility at Point MacKenzie? When the gas gets to Nikiski, what will it take to process it into LNG?
3	Stakeholder Issue	Does this project need to tap into the PFD? I would not mind that, especially if there was a benefit on the other end.
4	Stakeholder Issue	What if in-state demand grows? Are the big producers willing to accommodate this need over export needs? Had there been legislation for the people to vote on this? What if one of the big three companies pulls out because they have an alternative investment that might give them a higher rate of return?
5	Stakeholder Issue	Where are staging areas located?
6	Stakeholder Issue	Why is the western route the preferred route? Having it on the west side of the Susitna River bypasses Point MacKenzie and Anchorage. Would it not make more sense to run to Point MacKenzie and follow existing pipeline down to Nikiski? Is the route selection political? The project should evaluate Tyonek very carefully because they are important people. It makes much more sense from an environmental standpoint and a backup standpoint to go through Point MacKenzie. It would be a natural progression in the industrial development of Point MacKenzie. I support going to Nikiski, but we would like the opportunity to tap into the gasline at Point MacKenzie—we cannot do that if you go on the west side of the river; there is a gasline there from Nikiski to Anchorage that is already permitted. The western route would cause years more work for ASAP to be built as the backup plan if Alaska LNG did not go through. You accomplish multiple things by choosing the eastern route. I have got companies that want gas at Point MacKenzie and they will not be able to get it on the western route without building a 55 mile extension from Deshka to get it to the port.
7	Stakeholder Issue	Where are the off-takes and when will the location of them be decided? We cannot connect to the line if it is on the west side of the Susitna River.
8	Stakeholder Issue	Would the community have another supplier of gas other than Enstar? How much of the existing (TAPS) right-of-way could be used to bring the pipeline to the Fairbanks area?
9	Stakeholder Issue	What is this project doing to do to protect local jobs and hire locally? How are you going to ensure that the people who live here are going to benefit from the project?
10	Stakeholder Issue	There are a lot of resources, unions and non-unions, who have trained people from TAPS. The University of Alaska Anchorage (UAA) and the Alaska Vocational Technical Center (AVTEC) in Seward have great training for something like this coming up, but I am still afraid we will not have enough people and the work force will be less than 60 percent when it comes around.
11	Stakeholder Issue	The western route would have to cross ten salmon streams, versus zero on the existing line on the east side.
12	Stakeholder Issue	There is a game refuge along the western route that would need to be crossed.
13	Stakeholder Issue	What about sled dogs, trespassing, and right-of-way adjustments?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	June 4, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Wasilla, AK 99654
<b>Meeting Subject</b>	Houston-Big Lake Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andy Murr		Kyle Downing	
Angel Rabon	AECOM	Lori Brinker	
Carrie Smoldon		Mark Jennings	Alaska LNG Project
Cicely Boeve		Michael Nelson	Alaska LNG Project
Connie Downing	Tyonek Alaska Group, Incl.	Miles Baker	Alaska Gas Development Corporation (AGDC)
David Sinclair	Paragon Partners Ltd	Pam Nelson	
Eugene Harberman		Patty Murphy	E3 Environmental
Eva Welch	AECOM	Roger Purcell (Wasilla)	Century 21 A to Z Realty
Fred Nelius		Ron Jones	
Gordon Brinker		Simeon Brubaker	
Heather Ralston		Talon Boeve	
John Anderson		Tamara Boeve	
Josephine Chingliak	E3 Environmental	Vern Halter	Matanuska-Susitna Borough

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>


## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	How is this concept different from the one before 2012? Is the proposed route just not going down through Canada?
2	Stakeholder Issue	It is going to be a huge cost for the state to be responsible for the gas after the off-takes. Who would pay for a spur line to Fairbanks? What does the state's 25 percent equity share mean? Would Alaskans get a deal on gas prices because they are a part-owner in the project? Who regulates gas prices? Does the gas pipeline not fall within oil taxes? Does the project have a sense of the cost of the gas for Fairbanks, Anchorage, and Beluga? How much has the project spent in field studies this year? Has the state committed funds through this cycle for pre-FEED? How can the state come up with its share of the money, particularly with impending government layoffs? Is the state locked into anything contractually?
3	Stakeholder Issue	To whom would you sell the gas? Since the State of Alaska would have 25 percent of the costs, would the state get 25 percent of the gas? I am concerned about state funding for the project and its feasibility.

4	Stakeholder Issue	Alaska LNG could save a lot of money putting the LNG facility at Point MacKenzie. It would be faster and Point MacKenzie could hook into the gas line and ship out on it. It would save money with other companies (REI) putting money up to construct an LNG facility at Point MacKenzie. Point MacKenzie would have an LNG facility, and then Alaska LNG could do an offshoot to Beluga. Point MacKenzie is a better route—you could more easily get gas to Fairbanks from there. The oil companies are forcing this route upon us. Coming from Point MacKenzie, the route would not have to cross the Cook Inlet at all. It would eliminate all that permitting.
5	Stakeholder Issue	When would the state see its gas sold? Which would take the longest to construct out: the pipeline, LNG facility or GTP?
6	Stakeholder Issue	Alaska LNG seems to forget that the Mat-Su Borough and Point MacKenzie can be the next Prudhoe Bay in Alaska.
7	Stakeholder Issue	What is the definition of an off-take? After the off-take, who is responsible for the gas?
8	Stakeholder Issue	Is the gas going into the Enstar system as is? Who is going to figure the cost of distribution?
9	Stakeholder Issue	It seems like there is a lot of duplicate studies and waste. Can the project use older data?
10	Stakeholder Issue	Has the project engaged some of the companies out of Wasilla and Houston to help with work? Can you give me names of companies in Wasilla that Alaska LNG has used?
11	Stakeholder Issue	Is the project going to help pay for community infrastructure needed from the influx of employees?
12	Stakeholder Issue	How many workers would the project put here? How is the Mat-Su Borough going to fund school and roads? Would the costs of infrastructure be negotiated by the state?
13	Stakeholder Issue	Has Alaska LNG been talking to Donlin Gold about their proposed gold mine? Donlin is going to need gas in a few years.
14	Stakeholder Issue	No one in the Houston-Big Lake area found helicopter traffic from the project last year problematic.
15	Stakeholder Issue	Nikiski has a commercial fishing fleet. Alaska LNG would need to bring tankers. It would be a shallow area, and the project would have to shut commercial fishing down. There would be a new law from Homeland Security on tankers coming in from protection. We do not have that problem at Point MacKenzie. We do not have a commercial fishing fleet; the intelligent choice is Point MacKenzie.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 10, 2015
Sub-Project Name	Integrated (All Segments)	Location	Wasilla, AK 99654
Meeting Subject	Alaska LNG Project Update		


ATTENDEES			
Name	Organization	Name	Organization
Dawn Patience	BP Exploration Alaska	Miles Baker	Alaska Gas Development Corporation (AGDC)
Hans Neidig	ExxonMobil	Steve Butt	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
	CONFIDENTIAL	Page 1 of 1


MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 10, 2015
Sub-Project Name	Integrated (All Segments)	Location	Wasilla, AK 99654
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Dawn Patience	BP Exploration Alaska	Miles Baker	Alaska Gas Development Corporation (AGDC)
Hans Neidig	ExxonMobil	Steve Butt	Alaska LNG Project
Marc Van Dongen	Matanuska Susitna Borough Port Mackenzie		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
	CONFIDENTIAL	Page 1 of 1


MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 11, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Kathy Mayo	Kathy Mayo & Associates	Paul Quesnel	BP Exploration Alaska
Kim Fox	Alaska LNG Project	Steve Butt	Alaska LNG Project
Michelle Anderson (Anchorage Office)	Ahtna Inc.		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 11, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Julie Kitka	Alaska Federation of Natives (AFN)	Kim Fox	Alaska LNG Project
Kathy Mayo	Kathy Mayo & Associates		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	June 11, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Presentation - Alaska LNG Project update		

## ATTENDEES

Name	Organization	Name	Organization
Akis Gialopsos	Alaska Legislature	Josephine Chingliak	E3 Environmental
Albert Whitehead		Joshua Vo	AECOM
Alma Elia	New York Life	Joshua Walton	
Angel Rabon	AECOM	Kari McCauley	
Angela Sonnier	State of Alaska	Kerry Williams	
Ann Hippe		Kevin Smestad	Alaska Instrument Company
Ben Ball		Kyle Sanders	Honeywell
Brian Real		Leah Levinton	Alaska Gasline Development Corporation
Brooke Merrell	United States National Park Service, Alaska Regional Office	Lisa Gray	Alaska LNG Project
Bruce Collins		Lisa Pekich	ConocoPhillips
Bruce Davison		Mark Jennings	Alaska LNG Project
Bryan Clemens	CH2M HILL	Mark Morones	Alaska Department of Natural Resources (ADNR)
Carol Connell		Mark Schimscheimer	
Cathy Giessel (Juneau)	Alaska State Senate	Mary Anne Southam	
Charles Guinchard		Maryellen Tuttell	DOWL
Charles McKee		Matt DeSalvo	Wesco
Chris Hickling	aeSolutions Alaska Inc	Matt Hayes	
Chris Humphrey	exp Energy Services	Matt Larkin	Dittman Research
Christa VonBergen	Americans for Prosperity	Matt Wichorek	
Cynthia Trapp	Umiaq	Michael Nelson	Alaska LNG Project
David Dahlen		Miles Baker	Alaska Gas Development Corporation (AGDC)
Dean Southam		Myranda Walso	
Don Easterly	Alaska Instrument Company	Nancy Andrew	
Don Gerwin		Nancy Collins	

Don Naff		Oscar Evon	E3 Environmental
Doug Johnson	Weston Solutions Inc	Pat Hickey	
Esther Tempel	Alaska Department of Natural Resources (ADNR)	Patrick Gargan	Era Helicopters
Eva Welch	AECOM	Patrick Metzger	Atlas Inspection Technologies, Inc.
GM Forsyth		Patty Murphy	E3 Environmental
Gawain Brumfield	Great Northern Engineering, LLC	Paul D. Kendall	
Gene Weglinski	Donlin Gold	Phil Steyer	Chugach Electric Association, Inc.
Georgia Polley		Ramona Schimscheimer	
Greg McDonald	Eklutna Inc.	Ray Schoendaller	AK Supply, Inc.
Harry Harvey	Tuuq Drilling, LLC	Robert Findley	
Howard Grey	Foundex Pacific Inc.	Scott Davis (Anchorage)	
Jack Colonell		Scott Fedak	AK Supply, Inc.
Janet Jones		Scott Goddard	Dekoron Cable
Jeremy Price	Americans for Prosperity	Sherri Roberds	
Jesse Thacker	All Pro Alaska	Skyler Plonta	Alaska Steel
Jim Arlington	Afognak Leasing, LLC	Stefan Novotney	NANA Management Services (NMS)
Jim Hill	Toyota Forklifts of Alaska	Tasha Edwards Michael	Umiaq
Jim Posey		Tina Hayes	
Joe Hegna	AECOM	Tom Maloney	Ahtna Netiye'
John Gillam	Chiulista Services Inc.	Warren Jones	
John Lawson (Conoco)	ConocoPhillips	William Rannals	CH2M HILL
John O'Day			

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS


Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Contact AK Supply about labor modules.
2	Stakeholder Action Item	Advise businesses to sign up on the website if they are interested in work, and note businesses who gave contact information at the meeting.

3	Stakeholder Issue	Who are the project partners? Is the State of Alaska a partner? Among the Alaska LNG project partners, who runs the project? What is LNG? Where is the gas coming from? The gas from Cook Inlet is cleaner. What kind of energy will be used to run the facilities? Is the gas from coal? Is this coalbed methane (CBM)? Is coal in the Beluga formation? Is the gas reservoir onshore or offshore? Where is the hydrocarbon removed? How many compressor stations would there be? Confusion of the Alaska LNG Project with a proposed gas project by REI.
4	Stakeholder Issue	Are the Point Thomson facilities onshore or offshore? Will Point Thomson utilize nearby fields?
5	Stakeholder Issue	What is the daily gas capacity of the plant? Where is the GTP in relation to central compressor plant (CCP)? What else is being taken out of the gas besides carbon dioxide? What does the project do with the methane, propane, and butane? Where are they separated and are they used by the facilities?
6	Stakeholder Issue	Where is the current and proposed LNG facilities in Nikiski? Questions about shipping operations from Nikiski and port security.
7	Stakeholder Issue	If the pipeline is bonded, who would bond it? Make sure the project is bondable. Where is the project funding coming from? Comment on the project cost, funding, and concern about the State of Alaska's current budget situation. What is the state's cost to participate in Pre-FEED, FEED, and execution? Does gas go from Point Thomson to the closed end fund (CEF)?
8	Stakeholder Issue	I do not know if the State of Alaska can afford this project with its current budget situation. Is the project on track and are there any showstoppers? Who is going to use the gas? Are the markets not allowed to be discussed yet? What are the biggest challenges overall?
9	Stakeholder Issue	For pipeline construction methods, is anything used to weigh down the pipeline?
10	Stakeholder Issue	Is the project going underwater to cross the Cook Inlet? What does the sea floor look like in Cook Inlet?
11	Stakeholder Issue	Is the current proposed route shorter, and is the corridor routing already decided? Does the gasline route follow TAPS?
12	Stakeholder Issue	Where would the pipeline cross the Cook Inlet? Question about the routing junction of the east corridor alternative from the preferred route. Is the east route still an option? What is the preferred route? Why was a route to Point MacKenzie not selected? Why is the gasline route not following the Parks Highway?
13	Stakeholder Issue	Why is the project not routing the gasline to Valdez?
14	Stakeholder Issue	Question on the schedule and general steps for the project timeline. Why is the project taking so long? What is the future of the project? When is the go or no-go decision made for the project? What are the Pre-FEED steps? When does the project get the permits?
15	Stakeholder Issue	How soon would the construction start?
16	Stakeholder Issue	When will the project start shipping gas to markets? When is the delivery date? When will the gasline be finished and when will the gas start flowing?
17	Stakeholder Issue	Why purchase the land before the project knows where the LNG facility is going to be? Does the project cross the University of Alaska and Mental Health Trust lands?
18	Stakeholder Issue	What is the status of the Municipal Advisory Gas Project Review Board (MAG)? How does that impact us?
19	Stakeholder Issue	We hear that Fairbanks is fabricating a 32-inch pipe for a gasline to meet the main gas export line?
20	Stakeholder Issue	What are the studies the project is now looking at? Where are field studies occurring?
21	Stakeholder Issue	Community members would like to see some field workers attend meetings to talk about what they are seeing and their experiences. Questions about TransCanada and the article in the paper recently. The project should bring literature for meeting attendees to take home. Can the project provide GIS information?
22	Stakeholder Issue	A person from NANA Management Services inquired about any project updates to date.
23	Stakeholder Issue	Where does the non-Free Trade Agreement (non-FTA) announcement by the government fit on the plan of the project? Does the EIS process look at gas markets and who handles the shipping of the gas?
24	Stakeholder Issue	Concern on how the project would advance with Governor Walker's administration.

25	Stakeholder Issue	What are the sub-contractor guidelines? Many businesses want work. Concerns raised on contracts and the transparency of contracting. How do businesses get in on the project? I feel like businesses are not being engaged and frustrated that businesses are not getting any contracts. There are engineering components and businesses who want opportunities to work on this project. Where are the project procurement staff located? Chiulista is interested in providing work camps in the future. A NANA representative wanted contact information to provide geotechnical services. Great Northern Engineers is interested in pipeline design work. AK Supply would like to be contacted by the project. An attendee had interest in selling life insurance to the project as a benefits package.
26	Stakeholder Issue	Where will the project get that much steel for the pipe?
27	Stakeholder Issue	Concern about the storage of LNG. What happens if something happens to the gasline?
28	Stakeholder Issue	Does the project have any activity with helicopters?
29	Stakeholder Issue	A representative from the National Park Service stated concern for the Gates of the Arctic National Park area.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 11, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Gabreil Kompkoff	Chugach Region Inc	Paul Quesnel	BP Exploration Alaska
Kathy Mayo	Kathy Mayo & Associates	Steve Butt	Alaska LNG Project
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date





## MINUTES OF MEETING (MOM)

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## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 11, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Midtown, Anchorage, AK
<b>Meeting Subject</b>	Alaska LNG Project Update		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Kathy Mayo	Kathy Mayo & Associates	Sophie Minich	Cook Inlet Region Incorporated (CIRI)
Kim Fox	Alaska LNG Project	Steve Butt	Alaska LNG Project
Paul Quesnel	BP Exploration Alaska		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 11, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Aaron Schutt	Doyon Limited	Paul Quesnel	BP Exploration Alaska
Kathy Mayo	Kathy Mayo & Associates	Steve Butt	Alaska LNG Project
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000016-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 15, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	Alaska LNG Project update at weekly luncheon		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Presentation, Q&A	Josselyn O'Connor gave a project update to the Kenai Rotary Club. 15 club members in attendance. Overwhelming support for the project. Timeline was discussed in detail.
2	Stakeholder Issue	Overwhelming support for the project from the Kenai Rotary Club meeting attendees.
3	Stakeholder Issue	The project timeline was discussed in detail.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date


## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 16, 2015
<b>Sub-Project Name</b>	Integrated (All Segments), LNG Plant, Marine Terminal	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Tour of Nikiski Field Work and Public Hearing		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Aaron A. Weaver	Aaron A. Weaver	Karen Wuestenfeld	Alaska LNG Project
Akis Gialopsos	Alaska Legislature	Kathy Mayo	Kathy Mayo & Associates
Andy Josephson (Anchorage)	House of Representatives	Kim Fox	Alaska LNG Project
Anna MacKinnon (Juneau)	Alaska State Senate	Kurt Olson (Juneau)	House of Representatives
Benjamin Nageak (Juneau)	House of Representatives	Larry Persily	Kenai Peninsula Borough (KPB)
Bill Stoltze	Alaska State Senate	Larry Semmens	
Bill Wielechowski (Juneau)	Alaska State Senate	Laura Pierre	
Bob Herron (Bethel)	House of Representatives	Linda Hay	
Brandon Breczynski		Matthew Horneman	Alaska LNG Project
Caleb Bates	Alaska LNG Project	Michael Britton	Alaska LNG Project
Cathy Geissel		Michael Nelson	Alaska LNG Project
Cathy Giessel (Juneau)	Alaska State Senate	Mike Chenault (Juneau Address)	House of Representatives
Daniel MacDonald		Mike Navarre	Kenai Peninsula Borough (KPB)
Dave Talerico (Fairbanks)	House of Representatives	Nikos Tsafos	
Gina Ritacco		Patty Bielawski	Jade North, LLC
Hans Neidig	ExxonMobil	Paul Quesnel	BP Exploration Alaska
Janak Mayer		Paul Seaton (Homer)	House of Representatives
Jason Knier	exp Energy Services	Peter Micciche (Juneau)	Alaska State Senate
Jeff Raun	Alaska LNG Project	Rena Delbridge	
John Coghill (Juneau)	Alaska State Senate	Steve Butt	Alaska LNG Project
Josselyn OConnor	Alaska LNG Project	Tom Wright	
Julie Morris	Homefire Country Inn	Portia Babcock	ConocoPhillips

## DISTRIBUTION

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Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 27, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal	<b>Location</b>	Soldotna, AK 99669
<b>Meeting Subject</b>	United Cook Inlet Drift Association (UCIDA) Annual Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Claire Joseph	Alaska LNG Project	Mike Navarre	Kenai Peninsula Borough (KPB)
Josselyn OConnor	Alaska LNG Project	Peter Micciche (Juneau)	Alaska State Senate
Michael Nelson	Alaska LNG Project	Tom Wright	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Introductions	In his introduction, Dave Martin, the president of UCIDA, explained that UCIDA had been participating in the Alaska LNG Project regulatory processes (such as the waterway suitability assessment), and that the Project had been receptive to feedback and comments.
2	Project update	Claire Joseph presented a Project update to the group. She introduced Josselyn O'Connor and Michael Nelson. She thanked the group for the invitation to provide the update and thanked the group for the ongoing coordination and communication that has occurred through the waterway suitability assessment process. She explained that since last year, the Project formed a Joint venture, and began engineering design work. The Project continues to collect data to help inform design and construction planning. Some data collection will be conducted in and around the Nikiski area, including onshore and offshore. The Project marine crews in particular are familiar with the other waterway activities which occur in Cook Inlet during the summer months, and the Project will not be interfering with those activities. Claire explained the USCG-led waterway suitability assessment process and thanked UCIDA for their participation over three days in the workshops. She indicated there is a planned comment period that is set to begin soon. She explained the FERC pre-filing process and provided several ways for audience members to learn more about the project, including searching the FERC docket for PF 14-21, looking on the Alaska LNG website, calling the Project toll free number, or getting in touch with Josselyn O'Connor, who is the local contact for the Nikiski/Soldotna/Kenai areas.
3	Stakeholder Issue	United Cook Inlet Drift Association (UCIDA) noted the project had been receptive to feedback and comments.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>
1	Thank UCIDA		07/07/2015

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 30, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Soldotna, AK 99669
<b>Meeting Subject</b>	Project Update at Soldotna Chamber of Commerce Luncheon		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Josselyn OConnor	Alaska LNG Project	Larry Persily	Kenai Peninsula Borough (KPB)

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Project update	Larry Persily, Kenai Peninsula Borough Oil & Gas Special Assistant, gave a general update on the AK LNG project. Questions from the attendees: What's happening in the global LNG market? A. Not very good, but most likely will rebound. Will the State of AK be hiring to work on this project? - A. State doesn't really have the expertise in LNG marketing. Not at this time. What will happen to the ConocoPhillips LNG plant? - A. Didn't know beyond 2015.
2	Stakeholder Issue	What is happening in the global LNG market?
3	Stakeholder Issue	What will happen to the ConocoPhillips LNG plant?
4	Stakeholder Issue	Will the State of Alaska be hiring for work on this project?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 1, 2015
Sub-Project Name	none	Location	Anchorage, AK
Meeting Subject	Rocky Mountain Mineral Law Institute - Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Michael Britton	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	July 9, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Barrow, AK
<b>Meeting Subject</b>	Barrow Community Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Abel Hopson-Suvlu		Kate Kignak	
Angel Rabon	AECOM	Kevin Callahan	ExxonMobil
Beverly Hugo		Lisa Gray	Alaska LNG Project
Brad Weyiouanna		Mark Jennings	Alaska LNG Project
Carol Edwardsen		Michael Lerght	
Carrie Nelson		Michelle Weyiouanna	
Claire Joseph	Alaska LNG Project	Nellie O	
Dick Weyiouanna		Oscar Evon	E3 Environmental
Jeff Maupin		Steve Calder	ExxonMobil
John I. Brower		Susie Otto	
Joshua Jr. Okpik		Tasha Edwards Michael	Umiaq
Joshua Vo	AECOM	Whitney Moretti	Umiaq

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Check on drainage planning that may affect Dalton Highway.
2	Stakeholder Action Item	Use GCI TV advertisement next time to advertise meeting.
3	Stakeholder Issue	The road at Point Thomson affected the drainage resulting in bad floods this spring. After the work on Point Thomson is when there was flooding on the Dalton Highway. Did you put the Point Thomson information on paper for us? What kind of transportation is used in the Point Thomson area? There used to be places the caribou cooled off, and now they do not really go there anymore because of the planes going by too much. I have noted a change in the caribou migration. How often do Point Thomson flights occur?
4	Stakeholder Issue	There are not many people here, does this count as a meeting? There should have been more advertising and contact with the local officials. We got the postcards and hear confirmation of radio advertisements, but we recommend a GCI TV advertisement for the next meeting.
5	Stakeholder Issue	Barrow residents know our environment and travel in it by boats.

6	Stakeholder Issue	How are you going to protect the fish in the river? Some of the rivers change; they meander and they grow, and then there is a new route. Dams in the lower 48 block the rivers. Barrow's top priority is wildlife and fish; we have to protect them.
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

MEETING DETAILS			
Meeting Type	Community Meeting/Open house	Date of Meeting	July 14, 2015
Sub-Project Name		Location	Nuiqsut, AK
Meeting Subject	Nuiqsut Community Meeting		

ATTENDEES			
Name	Organization	Name	Organization
Abraham Stine Jr.		Lauren Newton	AECOM
Adeline Galla		Leon Matumeak	
Angel Rabon	AECOM	Lettie Ahnupkana	
Carl Brower		Lisa Gray	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Lloyd Ipalook	
Clarence H Anupkana		Lottie Evikana	
Cornelia Sovalik		Lydia Sovalik	
Dora Leavitt		Mark Brundage	
Eli Nukapigak		Mark Jennings	Alaska LNG Project
Emily Smyth	Umiaq	Marlene Ipalook	
Steve Eric Leavitt	Nuiqsut Whaling Captains Association	Martha Pausanna	
Eunice Pausanna		Michelle Miller	
Eva Welch	AECOM	Miles Baker	Alaska Gas Development Corporation (AGDC)
Hazel Kunaknana		Patty Murphy	E3 Environmental
James Taalak		Robert Nukapigak	
Javier Fente	Alaska LNG Project	Roger Ahnupkana	
Jeremiah Ahmakak		Tasha Edwards Michael	Umiaq
Jimmy Kasak		Tim Kramer	AECOM
Joseph Akpik		Wendy Brower	


DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

1	Stakeholder Action Item	Take concern about Porcupine Caribou Herd back to the project team. Q1 2016.
2	Stakeholder Issue	Where would the pipeline be above ground and where would it be buried? Is the majority of the pipeline going to be buried? What is the design for the pipe? Some of us might be thinking the pipe would have gasoline.
3	Stakeholder Issue	Can you point out Point Thomson on the map? How far is it from the ocean? What is the height of the pipeline?
4	Stakeholder Issue	Who would buy the gas? I would like an economic study done by Alaska Native Regional Corporations. Other parts of Alaska must grow besides the Southcentral area.
5	Stakeholder Issue	How would the pipe get here? Where would the LNG facility potentially be designed?
6	Stakeholder Issue	How long is the construction going to be?
7	Stakeholder Issue	Is Fairbanks going to get natural gas? Does Fairbanks support this project? What about the villages outside the North Slope and south of the mountains? Nuiqsut is the smallest community, so we have to help our neighbors. Nikiski and Anchorage have gas, but what about people in western Alaska or people in the Bethel area?
8	Stakeholder Issue	What about centralizing in Fairbanks? It could provide economic growth for Fairbanks and Fairbanks could be an export hub.
9	Stakeholder Issue	When people write studies and gather data, do they come up here and look at our land?
10	Stakeholder Issue	Would workers come from all over the United States for this project? It was that way for TAPS. We need education.
11	Stakeholder Issue	Is the project going to impact the permafrost? The permafrost is going to melt from all this structure. Would there be thermistors in the ground to prevent the permafrost from melting?
12	Stakeholder Issue	What happens if the buried pipeline breaks underground? What about the permafrost in a spill? Would the pipeline leak on the grass, and then would the caribou (who eat the grass) and us (who eat the caribou) be affected by a spill?
13	Stakeholder Issue	I am concerned about how many years we have not seen the Porcupine Herd because of the spider web of pipelines. Can you do studies to keep track of the caribou? We have heard caribou are stuck on the other side at the Melanie Point Pipeline, and being on the state side, they only require five feet minimum height. It impacts their calving and insect relief efforts. No more caribou for us; the migration is always displaced. How would a leak impact caribou? Would a leak cause disease in the caribou? Caribou eat grass, and we eat caribou. How would construction and its timing and length affect caribou? So many villages depend on the caribou migrations and the return of the caribou.
14	Stakeholder Issue	The project could route from Point Thomson to Fairbanks. What about routing to Nome and other places in west-central Alaska? It would shorten the route to go to western Alaska and export to Asia from there. It would shorten the time to recoup the state's investment. We could provide gas to Bethel from the port in Nome.
15	Stakeholder Issue	Are there archaeological sites on the North Slope? Why are the archaeological sites secret?
16	Stakeholder Issue	Did the Dalton Highway (Haul Road) wash out from drainage being affected by pipelines and other infrastructure? Would this project impact drainage and hydrology?
17	Stakeholder Action Item	Bring a pipeline engineer to the next meeting. Q2 2016.
18	Stakeholder Action Item	Alaska LNG will ask the Alaska Department of Transportation and Public Facilities (ADOT&PF) why the haul road (Dalton Highway) washed out. Q1 2016.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 16, 2015
Sub-Project Name	LNG Plant	Location	Anchorage, AK
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Michael Britton	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 22, 2015
Sub-Project Name	Integrated (All Segments)	Location	3201 C Street, Anchorage, AK 99503
Meeting Subject	Natural gas tie-in opportunities		

ATTENDEES			
Name	Organization	Name	Organization
James Mery	Doyon Limited	Steve Butt	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	July 25, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Soldotna, AK 99669
<b>Meeting Subject</b>	Alaska LNG Project booth at Soldotna Progress Days Fair		

## ATTENDEES

Name	Organization	Name	Organization
Clark Whitney		Luis Lugo	
Constance Nicks		Mimi Tolva	
Dustin Rhodes		Neal DuPerron	
Joe Nicks	Nikiski Resident	Pam Goldslager	
Josselyn OConnor	Alaska LNG Project	Robbin Szczesny	
Kenneth Manning		Robert Taumes	
Kim Thiele		Savanah Evans	
Leah Gerdon		Steve Vollertsen	
Lisa Gray	Alaska LNG Project	Victoria Hermansen	

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Report	Overwhelming support for the project in discussions with attendees. Many interested in potential for employment and economic benefits to the community. Two mentioned they were very happy with their negotiated deal selling their property to AK LNG. One discussion between Josselyn O'Connor and Constance & Joe Nicks (landowners in the Nikiski area inside Miller Loop). Josselyn will connect with them next week.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date
1	Begin discussion with Constance and Joe Nicks	Josselyn OConnor	08/31/2015

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	July 28, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	1689 C Street, Anchorage, AK 99501
<b>Meeting Subject</b>	Discuss Alaska LNG Project evolving procurement approach/strategy		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Connie Downing	Tyonek Alaska Group, Incl.	John Mathew	Tyonek Manufacturing Group, Inc.
Dan DeVries	Alaska LNG Project	Kathy Mayo	Kathy Mayo & Associates
Donald Standifer	Native Village of Tyonek	Kim Fox	Alaska LNG Project
James Hoffman	Tyonek Native Corporation	Michaelene Stephan	Tyonek Native Corporation

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Meeting with Tyonek Native Corporation	Introductions; Alaska LNG evolving contracting approach; Advice and input for developing policies around contracting

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MEETING DETAILS

<b>Meeting Type</b>	Unplanned/chance encounter	<b>Date of Meeting</b>	July 28, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	110 West 38th Avenue, Anchorage, AK 99503
<b>Meeting Subject</b>	Alaska LNG Project contracting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Catherine Martin		Matt Tisher	Ahtna Inc.
David O'Donnell	Ahtna Construction	Michelle Anderson (Anchorage Office)	Ahtna Inc.
Joe Bovee	Ahtna Inc.	Nick Jackson	
Kathy Mayo	Kathy Mayo & Associates		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Alaska Native content - Ahtna Corporation	

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 30, 2015
Sub-Project Name	Integrated (All Segments), LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Soldotna, AK 99669
Meeting Subject	Project Update at Central Peninsula Hospital Board of Directors Meeting		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Discussion/Presentation	Josselyn O'Connor presented to the Central Peninsula Hospital at their regular monthly board of directors business meeting. Josselyn gave a 10 minute overview of the scope of the project, key players, ongoing field studies in Nikiski, land acquisition, FERC scoping schedule. Questions from the group: 1. how big are the LNG carriers and 2. what is the timeline?
2	Stakeholder Issue	How big are the LNG carriers?
3	Stakeholder Issue	What is the timeline for this project?

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	July 31, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Taku / Campbell, Anchorage, AK
<b>Meeting Subject</b>	Provide Overview of Alaska LNG Project and Receive Feedback from CRNA		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Jerry Isaac	Tanana Chiefs Conference (TCC)	Rosetta Alcantra	E3 Environmental
Michael Nelson	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Project Update to Copper River Native Association Chief Executive Officer	On Friday, July 31, 2015 Michael Nelson, Socioeconomic lead for the Alaska LNG, Rosetta Alcantra, contractor for Alaska LNG met with Jerry Isaac, Chief Executive Officer for the Copper River Native Association (CRNA). Jerry shared his background and experience both as the former president of the Tanana Chiefs Conference (TCC) and with CRNA. Michael also shared his background and they discussed the previous projects, of which Jerry was familiar with. Michael provided an overview of the project to date. The main concern shared by Jerry include: • CRNA, works closely with Ahtna Inc., and continued coordination and communication efforts should be directed to Ahtna. • Concern about development and how to be prepared, Jerry mentioned the social impacts of the Alaska Highway Construction and how Tanacross, his home town is still dealing with the social bi-products. • Encouraged the producers to look at other means in lieu of taxation to help the communities not part of an organized Borough. He mentioned finding ways to support education, schools and transportation. There may be an opportunity to look at land leases with Ahtna and he is concerned about the impacts to Cantwell. • Expressed also was the State's approach to working with tribes and the long history of not recognizing Tribal Governments. Overall this was a very good meeting to start the conversation and to build the relationship.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	July 31, 2015
Sub-Project Name	Integrated (All Segments)	Location	16505 Centerfield Drive, Eagle River, AK 99577
Meeting Subject	Meeting with Eklutna Native Corporation		

ATTENDEES			
Name	Organization	Name	Organization
Curtis McQueen	Eklutna Inc.	Ross Sorensen	Alaska LNG Project
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000035-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Unplanned/chance encounter	Date of Meeting	August 19, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	Delivered project overview to CEO, Peninsula Community Health Services		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project	Monica Adams	Peninsula Community Health Services (PCHS)

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Discussion	Josselyn O'Connor gave an overview of the Project to Monica Adams, CEO of PCHS. Monica knew very little about the project and was excited to learn about the activities. She seemed very supportive of the project. Her main issues/questions regarded the cost of health care. Will the jobs and economy drive up the cost of health care? Item to note: PCHS runs the largest psychiatric facility in the area.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 18, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	Project Update		

## ATTENDEES


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
David Pelunis-Messier	Tanana Chiefs Conference (TCC)	Rosetta Alcantra	E3 Environmental
Don Shircel	Tanana Chiefs Conference (TCC)	Victor Joseph	Tanana Chiefs Conference (TCC)
Lisa Gray	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Provide AGDC contact to Victor Joseph at TCC. Suggested AGDC representative is Miles Baker.
2	Stakeholder Action Item	Provide name of 3rd party contractor to Victor Joseph.
3	Stakeholder Action Item	Provide FERC contact and public scoping schedule to TCC.
4	Stakeholder Action Item	Next meeting with TCC bring map books to show area.
5	Stakeholder Action Item	Determine if TCC was contacted for the labor study. If not, get the contractor the contact information for Don Shircel.
6	Stakeholder Action Item	TCC Annual Meeting is March 2016; keep it in mind for future outreach.
7	Stakeholder Issue	Is there a potential for propane to be in the gas? Will there be a formation of a separate company, similar to Alyeska?
8	Stakeholder Issue	How realistic is the project?
9	Stakeholder Issue	Is there potential to have an off-take at the Yukon River bridge? How will gas get to Fairbanks?
10	Stakeholder Issue	A brief discussion of the labor and logistics studies and whether or not TCC had been contacted.
11	Stakeholder Issue	How will unorganized boroughs/communities be dealt with by the project?
12	Stakeholder Issue	How will the project work with tribal organizations to address the long term impacts in communities (e.g. health and social impacts)? A relationship is needed to look at the issues of health and social impacts, and assisting the communities to prepare for the project.
13	Stakeholder Issue	When will the FERC scoping meetings happen?
14	Stakeholder Issue	How will tribes be able to reduce their energy costs?
15	Stakeholder Issue	TCC has an employment and training department, as well as relationships with the various vocational-technical institutions throughout Alaska. Specific institutions include the Pipeline Training Center and AVTEC. TCC shares information with Doyon Limited. There are many opportunities for shareholders and tribal members for trainings and resources to develop individual capacity.
16	Stakeholder Issue	The guarantees provided in TAPs with percentage of hire and encroachment have not been easily addressed. TCC currently has skilled labor in security.
17	Stakeholder Issue	Will there be induced access from the project, and will this issue will be addressed in the EIS? Induced access will reduce resources. Of specific concern is area 20A near Alatna, Allakaket, Evansville, Rampart, Minto, and Nenana.

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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 19, 2015
Sub-Project Name	Integrated (All Segments)	Location	1016 West 6th Avenue, Anchorage, AK 99501
Meeting Subject	Provide update of labor study progress/status to Alaska Commissioner of Labor and Workforce Development		


ATTENDEES			
Name	Organization	Name	Organization
Fritz Krusen	AGDC	Lydia Johnson	Alaska LNG Project
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Mike Andrews	Alaska Department of Labor and Workforce Development (ADLWD)
Kevin Pederson	Alaska LNG Project	Paul Quesnel	BP Exploration Alaska
Kim Fox	Alaska LNG Project	Portia Babcock	ConocoPhillips

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Labor Study update to Commissioner of Labor and Workforce Development	Discuss initial findings and next steps

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000034-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 19, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	AOGA - presentaton at joint Kenai/Soldotna Chambers of Commerce		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Highlights	Senator Murkowski received a recognition award from the National Chamber of Commerce. Kara Moriarty from AOGA gave an industry update and current state of industry related to Gov. Walker administration.


ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 19, 2015
Sub-Project Name	LNG Plant, Gas Pipeline, Gas Treatment Plant	Location	Anchorage, AK
Meeting Subject	Cook Inlet Routing and Construction Review		

ATTENDEES			
Name	Organization	Name	Organization
Alana Smith	Alaska LNG Project	Larry Persily	Kenai Peninsula Borough (KPB)
Anthony Pennino	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Barb Mahoney	National Marine Fisheries Service (NMFS)	Marci Balge	Alaska Department of Health & Social Services (ADHSS)
Caryn Rea	Alaska LNG Project	Mark Jen	United States Environmental Protection Agency (EPA)
Cory Wilder		Mark Morones	Alaska Department of Natural Resources (ADNR)
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Mary Romero	United States Army Corps of Engineers (USACE)
David Niehus	IntecSea	Melissa Burns	USFWS,
Don Perrin	ADNR, Commissioner's Office	Michael Zhang	Alaska LNG Project
Jack Everts	Alaska LNG Project	Mike Timpson	Natural Resources Group (NRG)
James Martin	Federal Energy Regulatory Commission (FERC)	Nic Kinsman	Alaska Department of Natural Resources (ADNR)
James Sowerwine	Alaska Department of Natural Resources (ADNR)	Prasad Anumolu	IntecSea
Jamie Grant	Alaska Department of Environmental Conservation (ADEC)	Rachel Thompson	exp Energy Services
Jennifer Murrell	Alaska Department of Natural Resources (ADNR)	Robert Albrecht	Alaska LNG Project
Jennifer Spegon	United States Fish and Wildlife Service (USFWS)	Ron Benkert	Alaska Department of Fish and Game (ADFG)
Jewel Bennett	United States Fish and Wildlife Service (USFWS)	Ryan Chladek	Alaska LNG Project
Judy Jacobs	National Marine Fisheries Service (NMFS)	Sarah Yoder	Alaska Department of Health & Social Services (ADHSS)
Julie McKim	Alaska LNG Project	Shannon Miller	ADNR State Pipeline Coordinator's Section
Julio Daneri	Alaska LNG Project	Wes Watkins	Alaska LNG Project
Katrina Chambon	Alaska Department of Environmental Conservation (ADEC)		


DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

	MINUTES OF MEETING (MOM)	USAG-PE-SAMOM-00-000005-000 02-Nov-16
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ACTION ITEMS			
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	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 25, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Alaska LNG Project Update		

ATTENDEES			
Name	Organization	Name	Organization
Aaron Schutt	Doyon Limited	Lydia Johnson	Alaska LNG Project
Kim Fox	Alaska LNG Project	Steve Butt	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAI-PE-SAMOM-00-000110-000 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 27, 2015
Sub-Project Name		Location	Palmer, AK 99645
Meeting Subject	Alaska State Fair - Energy Day		

ATTENDEES			
Name	Organization	Name	Organization
Angel Rabon	AECOM	Patty Murphy	E3 Environmental
Elizabeth Appleby	AECOM	Rosetta Alcantra	E3 Environmental
Lisa Gray	Alaska LNG Project	Tasha Edwards Michael	Umiaq

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Energy Day at the Alaska State Fair	Representatives of the Alaska LNG Project set up a booth at the Alaska State Fair in Palmer Alaska on August 27, 2015, Energy Day, to engage fairgoers about the Project and to talk about Alaska energy resources in general. Energy Day focuses on the Alaska energy industry and many of the companies involved set up booths to talk about their companies and projects. Alaska LNG was represented by Lisa Gray and stakeholder engagement support contractors Rosetta Alcantra and Patty Murphy (E3); Tasha Edwards (Umiaq); and Angel Rabon and Elizabeth Appleby (AECOM).

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000038-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 29, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	Booth at Industry Appreciation Day in Kenai (Oil & Gas, Tourism, Commercial Fishing)		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project	Lisa Gray	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Overview	Alaska LNG Project was very well received by the community at the event.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 2, 2015
<b>Sub-Project Name</b>		<b>Location</b>	110 W 38th Ave, Anchorage, AK 99503
<b>Meeting Subject</b>	Discuss meaningful communication - preparation for October 3rd Ahtna shareholder meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Joe Bovee	Ahtna Inc.	Roy Tansy Jr	Ahtna Netiy'e
Pat Metcalf	Alaska LNG Project	Tom Maloney	Ahtna Netiy'e

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000041-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 7, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Nikiski, AK
Meeting Subject	Monthly meeting of NCC		


ATTENDEES			
Name	Organization	Name	Organization
Fred Miller	Nikiski Community Council	Mike Chenault (Juneau Address)	House of Representatives
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Presentation items	56 people in attendance. Rep. Mike Chenault present. Main concerns were centered around crime and vandalism. AK LNG made the following presentation: Safety on KSH near seismic work - three near misses, please be safe. Vandalism/crime - great relationship with the Troopers, we will prosecute, want to be a good neighbor and now fully understand Niksiki crime issue FERC meetings - coming this fall Kenai Spur Highway - meeting coming soon FAQ - AK LNG is preparing a very simple and clear FAQ for area residents under the encouragement of Dave and Barbara Phelegly. Coffee with AK LNG - on Thursdays starting Sept. 17 Bring AK LNG swag next time. Very positive engagement.
2	Stakeholder Issue	Upcoming public meetings and other opportunities for engagement with Alaska LNG were discussed.
3	Stakeholder Issue	The main concerns with the project were centered on potential crime and vandalism.
4	Stakeholder Action Item	Bring Alaska LNG swag to future meetings

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 9, 2015
Sub-Project Name	Integrated (All Segments)	Location	Palmer, AK 99645
Meeting Subject	Mandatory update to Alaska Legislature (joint House & Senate Resources Committee) as outlined in SB138		

ATTENDEES			
Name	Organization	Name	Organization
Steve Butt	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 10, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Nome, AK
<b>Meeting Subject</b>	Presentation by Alaska LNG Project to the Bering Sea Alliance		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Art Ivanoff	Bering Sea Alliance	Mark Jennings	Alaska LNG Project
Lisa Gray	Alaska LNG Project	Michael Nelson	Alaska LNG Project

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1		<p>The 2015 Bering Sea Alliance – Alaska LNG Discussion was held on September 9 and 10, 2015 in Nome, Alaska. The Alaska LNG Project was invited to participate by Art Ivanoff, CEO of the Bering Sea Alliance, LLC. The session was conducted at Old St. Joe's Civic Center in Nome. It was organized as a town hall style meeting, with invited speakers and a facilitator from UAA. Invited attendees represented various organizations, businesses, village corporations and communities in the Norton Sound/Bering Sea region. All attendees made presentations and participated in question and answer sessions. They included: Art Ivanoff – CEO, Bering Sea Alliance, LLC Edmond Apassingok – Chairman, Bering Sea Alliance, LLC Melissa Houston – Associate Director for Strategy, Center for Economic Development, Facilitator – UAA Richard Beneville – Nome Chamber of Commerce (now Mayor of Nome) Kevin Sweeney – State Director, Constituent Services – Senator Lisa Murkowski's Office Michael Nelson, Lisa Gray and Mark Jennings – Alaska LNG Project – Project Overview, Studies, Schedule, FERC Carolyn Heflin – Director of Curriculum and Instruction - Bering Strait School District Douglas Walrath – Workforce Development Training – Northwestern Alaska Career and Technical Center (NACTEC) Luisa Machuca – Vice President of Employment, Education and Training – Kawerak Employment Services Bob Metcalf – Northwest Campus – UAF Tyler Rhoades and Laureli Ivanoff – Education And Training Programs – Norton Sound Economic Development Corporation Michael Ore – Sitnasuak, Inc. Matt Ganley – Bering Strait Native Corporation Barbara Nickels – Director, Nome Chamber of Commerce – Nome Capacity and Infrastructure Tucker Tillman – Foss Maritime Company – Current Presence Today and with Alaska LNG Greg Pavellas - Crowley Maritime Corporation – Crowley's Arctic Presence Today and in the Future Mark Griffin – ARCADIS – Bering Straits, America's Arctic Gateway: Gambell, A Good Bet for America Vali Peterson – ConocoPhillips – Overview of Village Outreach Jeff Benz – President – North Star Terminal and Stevedore Dennis Young – Arctic Liaison – International Longshore and Warehouse Union Presentations and dynamic discussions included the Alaska LNG Project, contracting opportunities, jobs, education and training opportunities, current education and training capabilities in the region, maritime transport, high energy costs, navigating the Bering Strait, availability of armored rock (St. Lawrence Island) and safe harbors (Nome, Port Clarence, etc.). Attendees participated in a tour of the NACTEC training center facilities in Nome and a reception the day before the session . The session provided an excellent opportunity to get to know the people, organizations and corporations in the Bering Strait region who support the Alaska LNG Project and who sincerely want to contribute to the Project's continued success.</p>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 16, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Project Overview to Alaska Chapter of American Society of Drilling Engineers		

ATTENDEES			
Name	Organization	Name	Organization
Claire Joseph	Alaska LNG Project	Kim Fox	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Summary	Presented Project Overview to group of approximately 75 people. Audience was generally supportive of the Project and included individuals from oil and gas companies, support/service companies, and consulting/contractors. Audience questions ranged from technical questions about the Project design and scope to commercial questions related to gas marketing and timing of commercial negotiations.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAL-PE-SAMOM-00-000053-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Unplanned/chance encounter	Date of Meeting	September 18, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	The Alliance Kenai Chapter Luncheon		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Luncheon Topic	Hilcorp presented an update on their Cook Inlet activities.

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 22, 2015
Sub-Project Name	Integrated (All Segments)	Location	110 W 38th Ave, Anchorage, AK 99503
Meeting Subject	Discuss Ahtna priority areas: detailed review of pipeline route; contracting strategy		

ATTENDEES			
Name	Organization	Name	Organization
Joe Bovee	Ahtna Inc.	Michelle Anderson (Anchorage Office)	Ahtna Inc.
Luke Marodi	Alaska LNG Project	Nick Jackson	
Mark Jennings	Alaska LNG Project	Tim Gold	Ahtna Netiye'
Matthew Horneman	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	USAI-PE-SAMOM-00-000112-000 02-Nov-16
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MEETING DETAILS			
Meeting Type	Community Meeting/Open house	Date of Meeting	September 22, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anaktuvuk Pass, AK
Meeting Subject	Alaska LNG Project Community Meeting - Anaktuvuk Pass		

ATTENDEES
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Name	Organization	Name	Organization
Ada Ahgook		John Williamson	
Amos Ahgook		Jonathan Rulland	
Angel Rabon	AECOM	Joshua Vo	AECOM
Anthony Ivanoff		Justus Mekiana	
Arianne Bifelt		Laura Ticket	
Benjamin Hugo		Lawrence Burris	North Slope Borough (NSB)
Bernice Bifelt		Lela Ahgook	Lela's Store
Billy Tagarook		Lillian Stone (Home Address)	
Bryan Ticket		Linda Mockta	E3 Environmental
Byron Hopson		Lisa Gray	Alaska LNG Project
Cathy Morry		Marcus Ahmakak	
Charlene Hugo		Michelle Hugo	
Charlie Titus		Molly Hugo	
Clyde Morry		Nellie Rulland	
Darryl Hugo		Olive Hill	
Della Tagarook	North Slope Borough (NSB)	Oscar Evon	E3 Environmental
Dorcas Hugo		Patty Murphy	E3 Environmental
Doris Hugo		Rachel M Gordon	
Dorothy Gordon		Raymond Paneak	
Earl Williams		Rhoda Ahgook	
Edward Riley Sr		Riley Sikvayugak Jr.	
Effie Mekiana		Ruth Rulland	
Emily Smyth	Umiaq	Shirley Mekiana	
Eva Welch	AECOM	Sollie Hugo	
Francis Hugo		Steven Ekak	North Slope Borough (NSB)
Georgiann Gordon		Susan Morry	
Jada Morry		Tasha Edwards Michael	Umiaq
Joan Hugo		Thomas Rulland (Naqsrarmiut Tribal Council)	Naqsrarmiut Tribal Council
John Hugo		Timothy Ahgook Jr.	

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Bring information on design and logistics to avoid impacts to caribou, including construction timing, when it is fully available. To be done in Q1 2016.
2	Stakeholder Issue	Is the project the same gas pipeline north of the Umiat area? Is this project the same as the Alpine gasline at Kuukpik? Is this project involved with Kuukpik?
3	Stakeholder Issue	What is the routing of the pipeline? Will the project be built along TAPS?
4	Stakeholder Issue	Is the pipeline located 50 miles from Anaktuvuk Pass?
5	Stakeholder Issue	When does the construction start?
6	Stakeholder Issue	Do you have a donation fund to help Inuit Corporation pay for regular fuel and diesel? I hope Anaktuvuk Pass will benefit from this project in the future.
7	Stakeholder Issue	Is the project close enough to Anaktuvuk Pass for a heating system? I think the gasline will benefit the Fairbanks, Anchorage, and Fort Greely areas because the pipeline already goes through there. I do not think the project can bring gas to Anaktuvuk Pass.
8	Stakeholder Issue	Is Alaska LNG coming to Anaktuvuk Pass more often?
9	Stakeholder Issue	The elections are coming up; can our delegates come and hear our concerns?
10	Stakeholder Issue	AFN (Alaska Federation of Natives) is coming up; will Alaska LNG be there?
11	Stakeholder Issue	I hope the village gets a policy on getting local people hired.
12	Stakeholder Issue	Does the project have an EIS?
13	Stakeholder Issue	There is concern about the impact to caribou used as a subsistence resource by Anaktuvuk Pass.
14	Stakeholder Issue	Take a look at Nuiqsut; about 50 people in the community require nebulizers. If the flaring goes on in our region, nebulizers will be required for every household in Anaktuvuk Pass. Will there be any flares in the Anaktuvuk Pass area?
15	Stakeholder Issue	If Anaktuvuk Pass gets any of that natural gas, we could probably ask for a piece of energy fund. Will that include home heating repair and maintenance?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date





## MINUTES OF MEETING (MOM)

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## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	September 24, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Update on Alaska LNG Project and contracting/business lead		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Johna Beech	Kenai Chamber of Commerce	Rick Roeske	Kenai Peninsula Economic Development District
Josselyn OConnor	Alaska LNG Project	Ross Sorensen	Alaska LNG Project
Kim Fox	Alaska LNG Project	Tami Murray	Soldotna Chamber of Commerce

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Discussion	Goal was to introduce Ross Sorenson as Alaska LNG project contracting lead and give an informal update on the project. Idea was tossed around to begin LNG education and economics. Jobs and contracting opportunities were the focus.
2	Stakeholder Issue	The idea of starting to do outreach about LNG education and economics was discussed.
3	Stakeholder Issue	Jobs and contracting opportunities was a main focus of the meeting.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 28, 2015
Sub-Project Name		Location	Fairbanks, AK
Meeting Subject	Arctic Energy Summit Conference		

ATTENDEES			
Name	Organization	Name	Organization
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 29, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Arctic Energy Summit Conference		

ATTENDEES			
Name	Organization	Name	Organization
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	September 30, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Arctic Energy Summit Conference		

ATTENDEES			
Name	Organization	Name	Organization
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

MEETING DETAILS			
Meeting Type	Community Meeting/Open house	Date of Meeting	September 29, 2015
Sub-Project Name		Location	Fairbanks, AK
Meeting Subject	Alaska LNG Project Community Meeting - Fairbanks		

ATTENDEES			
Name	Organization	Name	Organization
Angel Rabon	AECOM	Kaitlin Wilson	Alaska Legislature
Beth Wythe	City of Homer	Lisa Gray	Alaska LNG Project
Bruce Campbell		Maria Talasz - Home	STANTEC
Chris Darrah	Shannon & Wilson	Matthew Horneman	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Michael Nelson	Alaska LNG Project
David Pelunis-Messier	Tanana Chiefs Conference (TCC)	Mike Shackles	
David Prusak		Miles Baker	Alaska Gas Development Corporation (AGDC)
Erika Herlugson	Alaska LNG Project	Ned Gaines	AECOM
Eva Welch	AECOM	Neil McKee	
Gary Newman		Oscar Evon	E3 Environmental
Holly Spoth-Torres		Patty Murphy	E3 Environmental
James Kori		Phyllis Brush	Altrol Inc
Jeff Johnson		Randy Griffin	
Jeff Raun	Alaska LNG Project	Tasha Edwards Michael	Umiaq
Jim Plaquet	Alliance	Tim Kramer	AECOM
Johanna Dreher	E3 Environmental	Tobi Jeans Maracle	unaffiliated
John Dashell		Wendell Horton	
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Give James Kori contact information to Ned Gaines.
2	Stakeholder Action Item	Consider scheduling a meeting in Homer at some point for the project.

3	Stakeholder Issue	What are the drivers for going to a 48 inch pipeline? How many compressor stations would there be?
4	Stakeholder Issue	What is the carrier capacity of the ships?
5	Stakeholder Issue	Would the Yukon crossing be used as a logistics staging area?
6	Stakeholder Issue	Attendee commented that they did not know previously that the pipeline cost is only 25 percent of the total cost. Does the project have extra gas to sell?
7	Stakeholder Issue	Did the governor help or hurt the project when he went to Japan looking for customers? Among the partners, who has the most interest in the project?
8	Stakeholder Issue	What is the timing for FEED decision?
9	Stakeholder Issue	When will construction start?
10	Stakeholder Issue	Have you acquired land in Nikiski?
11	Stakeholder Issue	Native allotments were noted in the Yukon River Bridge crossing area.
12	Stakeholder Issue	Can the project deliver propane to small communities? If a gasline comes into Fairbanks, will it lower the cost of gas? Can off-takes also take in gas from other sources? There are other gas fields besides Point Thomson. Would commercial businesses and military bases convert to natural gas?
13	Stakeholder Issue	Request for additional ethno-geographical studies, through FERC or private grants.
14	Stakeholder Issue	There is an information gap between the state and general public regarding where the off- take locations would be located. The state is not communicating the economy of scale which will prevent small towns from getting gas off-takes.
15	Stakeholder Issue	The Mayor of Homer, Beth Wythe, requested a project meeting in Homer. Although they are not directly impacted by the project, Homer wants to be prepared and have local workers on the project.
16	Stakeholder Issue	When is the Fairbanks FERC Meeting? Will FERC have meetings around the state? The federal government should facilitate the project and increase U.S. exports.
17	Stakeholder Issue	The governor and legislators do not need to talk about the reserve tax at this phase of the project. They should be discussing whether or not the state will buy out TransCanada instead. The special session should resolve the TransCanada issue. What does Alaska LNG need from the special session?
18	Stakeholder Issue	What would be the total number of construction and operation jobs? Please clarify projections of indirect jobs during operations.
19	Stakeholder Issue	How long does it take the environment to recover after the grass and plants are impacted?
20	Stakeholder Issue	The project should plan for the bust that will come after completion of construction.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 1, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Soldotna, AK 99669
<b>Meeting Subject</b>	Monthly breakfast meeting of Kenai/Nikiski/Soldotna non-profits to exchange information		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Josselyn O'Connor	Alaska LNG Project	Ricky Gease	Kenai River Sportfishing Association
Linda Swarner	Kenai Peninsula Food Bank, Inc.		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Discussion	Josselyn O'Connor explained Larry Persily's role with the KP Borough and encouraged attendees to keep the lines of communication open with him. Linda Swarner - KP Food Bank Ricky Gease - Kenai River Sportfishing Association LeeShore Center Discussion on socioeconomic impacts and the potential for increased demands on the services these NGO's provide (food & shelter). We discussed the options of a closed vs. open work camp. All agreed they would prefer to see an OPEN camp stating the importance of the community reaping the economic benefits. They expressed the economic benefits outweighed the negative their organizations might see. They all seemed excited about the prospect of new community members able to volunteer and financially support their causes.
2	Stakeholder Issue	The participants from nonprofit groups all seemed excited about the prospect of new community members able to volunteer and financially support their causes. All agreed they would prefer to see an open work camp, stating the importance of the community reaping economic benefits. Participants thought the economic benefits outweighed the negative impacts their nonprofit organizations might see.
3	Stakeholder Issue	Discussion on potential project impacts to socioeconomics and the potential for increased demands on the services these non-governmental organizations (NGO's) provide, such as food and shelter.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 3, 2015
Sub-Project Name	Integrated (All Segments)	Location	Gakona, AK
Meeting Subject	Provide Project Overview to Ahnta shareholders		

ATTENDEES			
Name	Organization	Name	Organization
David Sinclair	Paragon Partners Ltd	Michelle Anderson (Anchorage Office)	Ahnta Inc.
Joe Bovee	Ahnta Inc.	Pat Metcalf	Alaska LNG Project
Kim Fox	Alaska LNG Project	Roy Tansy Jr	Ahnta Netiye'
Mark Jennings	Alaska LNG Project	Tom Maloney	Ahnta Netiye'

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 5, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Monthly meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Fred Miller	Nikiski Community Council	Josselyn OConnor	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Discussion	Josselyn O'Connor presented the following: Oct 19 - Kenai Spur Highway Open House - HDR presenting the event, highlight feasibility process, looking for feedback/input from the community on key issues, maps with options will be shown. A question was asked about whether information would be available to those that can not attend the Open House. Josselyn informed the group she was working on that issue. Oct 27 - FERC scoping meeting in Nikiski - Josselyn will provide times to NCC secretary for distribution when dates are available. G&G work - Onshore work wrapping up. Off-shore work will continue till approximately mid-November weather permitting. Appreciation to the community for their support and safety surrounding the work this summer. Fred Miller distributed ~30 maps of the LNG facility footprint overlaid on a KPB area map (attached). There was great interest in the map from the group. Fred stated that he had heard lots of rumors and that this map confirmed they are just that, rumors. Josselyn O'Connor took the opportunity to explain that the footprint map was presented to Agencies for input, was a preliminary design idea, would most likely change based on data collected during G&G studies, and that this is NO way was a final document. No questions received. Maps: Fred Braun (area real estate professional) informed the group that KP Borough's GIS system is a great resource. At anytime you can search for Alaska LNG properties and all recorded properties will be highlighted. Josselyn O'Connor said that Bobbi Lay in the KP GIS department is a great resource and can provide maps as well. Coffee with Alaska LNG: Josselyn expressed the Project's desire to continue these gatherings. We will start back up in November. Feedback regarding venue and times will be considered moving forward. The Project understands that the community is very interested in land and Josselyn stated she would try and get a member of the Lands team to join us at the next coffee gathering. Fred Miller expressed his thoughts on the man who was critical on Josselyn not being a Nikiski resident - Fred stated that Josselyn has attended more Nikiski events than that person and that the community is lucky to have her. Water Quality - discussion around the Nikiski Ground Water Study by the KP Borough. This was phase 1 - water movement. No money for Phase 2 which would include water quality. Josselyn O'Connor stated the Project's understanding of the importance of water to the Nikiski Community and informed the Council that the Project is exploring options to broaden area studies and possible partnerships to enhance everyone's understanding of the water system. Wayne Ogle suggested the Nikiski Community Council send a letter to KPB Mayor Navarre and CC Alaska LNG expressing the Council's desire to partner and seek creative study opportunities. Wayne Ogle stated that the community should get ready for the environmental push-back on the Alaska LNG project. When asked to explain, Mr. Ogle referenced environmental groups killing the Keystone Pipeline and that he didn't want to see that happen here. Most nodded in agreement. Very positive engagement.
2	Stakeholder Issue	Attendee stated Nikiski should get ready for the environmental push-back on the Alaska LNG Project. When asked to explain, he referenced environmental groups stopping the Keystone Pipeline and that he did not want to see that happen here.
3	Stakeholder Issue	After discussing the Nikiski Ground Water Study being conducted by the Kenai Peninsula Borough (KPB), an attendee suggested the Nikiski Community Council send a letter to KPB Mayor Navarre and Cc Alaska LNG expressing the Council's desire to partner and seek creative study opportunities.

4	Stakeholder Issue	Feedback regarding venue and times will be considered moving forward for Coffee with Alaska LNG meetings. An attendee noted the Kenai Peninsula Borough (KPB)'s GIS system as a great resource which can show all Alaska LNG properties.
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 7, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Kaktovik, AK
<b>Meeting Subject</b>	Alaska LNG Project Community Meeting - Kaktovik		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Amanda Kaleak (North Slope Borough School District)	North Slope Borough School District (NSBSD)	Keith Breiner	Alaska LNG Project
Anthony Vellat		Leonard Gordon	
Betty Brower		Linda Mockta	E3 Environmental
Carla Sims Kayotuk		Linda Soplu	
Charles Lampe	Kaktovik Inupiat Corporation	Lisa Gray	Alaska LNG Project
Christopher Gordon	Kaktovik Whaling Captains Association	Maggie Going	
Clara Sittichinli		Marie Kaveolook	
Elizabeth Appleby	AECOM	Mark Jennings	Alaska LNG Project
Ellis Tikluk		Mark Ologak	
Emily Smyth	Umiaq	Michelle Kayotuk	
Eunice Sims	Sims Store Enterprise	Nathan Tagarook	
Eva Welch	AECOM	Nora Jane Burns	City of Kaktovik
Evelyn Reitau		Noreen Kaleak	
George Kaleak		Patty Murphy	E3 Environmental
Harry Lord		Ruth Tagarook	
Ida Angasan (City of Kaktovik)	City of Kaktovik	Sheldon Brower	
Javier Fente	Alaska LNG Project	Susan Gordon	
John Tagarook		Tasha Edwards Michael	Umiaq
Joshua Vo	AECOM	Tiffani Kayotuk	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>


## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
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1	Stakeholder Action Item	Bring more detailed information to answer wetlands question next time the project is in Kaktovik – how many wetlands be impacted and what kind of mitigation would be done.
2	Stakeholder Issue	How tall would the pipeline be above ground?
3	Stakeholder Issue	Attendees discussed the disturbance of burial sites by another project, which failed to notify the community they were working in the area to the east of Kaktovik. Discussion of the State of Alaska community-wide subsistence survey, and residents wanted to know what happens to information they give for subsistence surveys.
4	Stakeholder Issue	One of the community leaders suggested that the project should have the legislative leaders come in for the FERC meeting in Kaktovik. The community feels overlooked by the State of Alaska.
5	Stakeholder Issue	Why are all the Kaktovik meetings in October?
6	Stakeholder Issue	Will Livengood and Fairbanks benefit from the pipeline?
7	Stakeholder Issue	How many wetlands would the project impact? What kind of mitigation would the project offer?
8	Stakeholder Issue	Kaktovik wants an above ground pipeline which is tall enough for caribou to pass underneath. The community wants to avoid a pipeline made of shiny metal because shiny metal spooks caribou.
9	Stakeholder Issue	Agencies are reducing the number of caribou Kaktovik residents may shoot. Community concerns noted for caribou herds used for subsistence.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 7, 2015
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	Presentation by Caring for the Kenai, Nikiski and Kenai Student of the Month		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 15, 2015
Sub-Project Name	Integrated (All Segments)	Location	Anchorage, AK
Meeting Subject	Booth at Alaska Federation of Natives Conference (AFN)		

ATTENDEES			
Name	Organization	Name	Organization
Lisa Gray	Alaska LNG Project	Mark Jennings	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 19, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Gas Pipeline	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Kenai Spur Highway Relocation Public Meeting		

## ATTENDEES

Name	Organization	Name	Organization
Abraham England		Kate Carmody	
Aimee Harrison		Katherine Wood	HDR
Albert Parra		Katrina Nelson	
Alex Post	HDR	Katy Bethune	
Amanda Buckholz		Katy Johnson	
Ameye Carpenter		Keith Gerke	
Anne Barrett		Keith Phillips	
Arthur Hotchkiss		Kelly Brewer	
Ashley Smith	KSRM Radio - Kenai	Kelly Harden	Nikiski Resident
Audrey Johnson		Kevin Epperheimer	
Barbara Dahl		Kevin Henin	
Barbara Phegley	Nikiski Resident	Kim Lofquist	
Becky Henin		Kirk Nickel	
Ben Carpenter		Kole McCaughey	
Ben Heaverley		Kurt Olson	
Betty Idleman		Larry Persily	Kenai Peninsula Borough (KPB)
Betty Lee		Laura Roofe	
Beverly Waldrop		Leigh Hagstoum-Sanger	
Bianca Chase		Linda Knowles	
Bill Stevens		Loretta Eaton	
Bill Woodin		Lori Monson	
Bonita R. Quale		Lou Oliva	L&J Enterprises Excavating Inc
Bonnie Porter		Louise Heite	
Bonnie West		Louise Nutter	Burning the Midnight Oil

Brandy Pamplin		Lydia Johnson	Alaska LNG Project
Brenda Mclay		Lynne Jorgensen	
Brendyn Shiflea	ConocoPhillips	Manny Lopez	Paragon Partners Ltd
Brent Halderson		Marie Halderson	
Brett Barce		Marilyn G. Shilue	
Brian Bielenberg		Marion Yapuncich	
Brian Quesnel		Mark Dalton	HDR
Bryce Choate		Mark Jennings	Alaska LNG Project
Bud Sexton		Mark Johnson (Nikiski)	
Candice Elias		Mark Powell	
Carla R. Real-Henderson		Mark Stynsberg	
Carmen Marti McGahan		Marlene Pearson	
Carol Leeper		Mary Barros	
Carol McCormick	unaffiliated	Mary Ellis	
Carol Snead	HDR	Mary Kennedy	
Cathy Parker		Mary Lyall	
Charles		Mary Olson	
Charles Hickman		Merrill McGehan	
Chris Kimball		Michael A. Peet	
Chris Mclay		Michael Anthony	
Chris Monson		Michael H. Baucum	
Christine West		Michael Lofquist	
Chrystal Schoenrock		Michael Miller	Granite Construction Company
Coby Harden	Nikiski Resident	Michele Harthin	
Colette A. Cohen-Barce		Michelle Graves	
Constance Nicks		Michelle Apted	
Cruz Construction		Michelle McGlassan	
Cy Cox		Mike Chenault	
Dale Bakk		Mike Musick	
Dale Schmoll		Mike Navarre	Kenai Peninsula Borough (KPB)



Dan Church		Mike Saley	
Danielle Johnson		Mike Taylor	
Darcy McCaughey	Nikiski Community Council	Miles Jorgensen	
David B. Phegley		Misty D. Cole	
David Boyer	CH2M HILL	Mollie Burton	
David Endecott		Nancy Veal	
David Lee Moore		Nancy Whiting	
Dawn M. Choate		Neal West	
Dawn M. Nelson		Nick Lee	
Dean Bartsch		Norm Darch	
Deb Denton		Norman Olson	
Debbi Palm		Pam Dominguez	Nikiski Resident
Debra Hunt		Pam Dominguer	
Deni Pennison		Pat Moye	
Dennis Van Sky		Patrick Carmody	
Diana Forslund		Patrick Clark	
Diane Damitz		Patsy Clifford	
Diane Durfee		Patti Williams	
Don Bakk		Patty Hert	
Don Leeper		Patty Hickman	
Donald Waldrop		Paul Hartley	
Donna Brauny		Paul Quesnel	BP Exploration Alaska
Douglas Bochace		Peggy Freel	
Douglas Norris		Penny Smith	
Ed Oberts		Perry Solomonson	
Edna Gerke		Peter Malone	
Elizabeth Earl		Phil Smith	
Emma J. McCune		Rachael Parra	
Felix Martinez		Randall Knowles	
Fred Braun		Randall Nelson	

Gary Knupp		Raye Dunn	
Gene Roofe		Rebecca Bakk	
George and Tina Showalter		Regina (Jeanie) Carter	
Glenn Clifford		Reid Kornstad	
Gloria Dilley		Renee Diamond	
Heather Bielenberg		Richard McGahan	
Heidi Hatch (Tri AK)	TRI Alaska LLC	Rick Rooslie	
Holly Davis		Robert Dominguez	
Holly Malone		Roger Pearson	
Jack Porter		Ronald Lee	
Janell Grenier		Rosaline Lemienx	
Jason Erot		Roy Moore	
Jason Hinkle		Russell Mills	
Jeannie Nickel		Rusty Forslund	
Jeff Epperheimer		Samantha Playle	
Jeff McDonald	Alaska LNG Project	Scott Larson	
Jeff Raun	Alaska LNG Project	Scott Guttormson	Alaska LNG Project
Jeff West		Scott Wharton	HDR
Jennifer Adleman	HDR	Shame Bowlin	
Jennifer Mills		Shannon Elsey	
Jennifer Porter		Sharon Bystedt	
Jenny Neymen		Sharon W. Browie	
Jerry L. White		Sheila Graham	
Jesse Spurgeon		Shonda Powell	
Jessica Veal		Sondra Starnes	
Jill Smith		Stacy Oliva	
Jim Allemann		Stephen Smith	
Jim Graige		Steve Black	
Joan Kimball		Steven Bush	TRI Alaska LLC
Jody Taylor		Sue Jungling	

Joe Arness		Susan McLaury	
Joe Nicks	Nikiski Resident	Suzette Huber	
Joe Reese		Sylvia Webb	
John Jungling		Tami Vincent	
John Kennedy		Tammy Berdahl	
John Klimpke		Ted Miles	
John McDonald		Terry Dilley	
John Moore McKee		Tim Apted	
Joseph Dukowitz		Tim Colbath	
Joseph Fisher		Tim Veal	
Joseph Lemienx		Tom Bennett	
Josh Biamonte		Vicki Duggin	
Josh Lytle		Victoria Johnson	
Josselyn OConnor	Alaska LNG Project	Virginia Hall	
Juanita Petla-Moore		Wanema Arndt	
Judith Shields		Wayne Ogle	Kenai Peninsula Borough Assembly
Judy Phillips		Wayne Pattison	
Julie Marcialowski		William Rannals	CH2M HILL
Kaarlo Wik	Salamatof Native Association Inc	William Rollenfitch	
Kandice Hightower		William Warren	
Karen Dukowitz		Willie Porter	
Karen McGahan		Wilma Hampson	
Karl Sivertsen		Zem Butchelder	

## DISTRIBUTION

Name	Organization	Name	Organization
USAL-HD-SRZZZ-00-000001-000_n			

## AGENDA ITEMS

Item	Agenda Item(s)	Description
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1


Kenai Spur Highway relocation  
project open house and meeting  
summary

- ~300 individuals attended the Kenai Spur Highway Relocation Project Open House held on Monday, 19 October 2015, from 5:00 p.m. to 8:00 p.m. AKST at the Nikiski Community Recreation Center in Nikiski, Alaska. Two hundred sixty-one individuals signed in at the meeting. - The open house format included a formal sign-in area, multiple staffed poster stations, and a comment area. A fact sheet about the road relocation project, a newsletter from the Alaska LNG project, and information generated by the Kenai Peninsula Borough (KPB) were available. - Representatives from the Alaska Department of Transportation and Public Facilities (DOT&PF) and the KPB attended. - Advertisement via radio, print media, community calendars, and direct mail began the first week of October and continued through the meeting date. - ~ 46 comment forms were submitted, 34 comments were posted to the project maps on display and a number of issues and themes were discussed among open house attendees and HDR and Alaska LNG project team members who staffed the open house. - The following list below identifies the most common issues and themes from the comment forms, from comments on the route options maps, and from discussions among attendees and project team staff:

- The use of the Escape Route Road should be considered as a route option. The Escape Route Road was also referenced as Neer Road, a locally used abbreviation of the former road name, Nikiski Emergency Escape Route Road.
- Bluff erosion at the southern extent of the route options
- Beach access for the public and commercial fishermen
- Properties and facilities becoming inaccessible through road relocation
- Timing and process for land acquisition
- Impacts to residents, homes, and the environment around area lakes
- Impacts to remaining residents, homes, and the environment
- Driveways and business access
- Consider a four-lane road
- Impacts to neighborhoods with high numbers of children
- Increased noise from the highway
- Decrease in residential property values (See USAL-HD-SRZZZ-00-000001-000\_A. Kenai Spur Highway Relocation Project - Open House Meeting Summary 19-Oct-15.PDF)

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 20, 2015
Sub-Project Name	Integrated (All Segments)	Location	Wasilla, AK 99654
Meeting Subject	Project introduction		

ATTENDEES			
Name	Organization	Name	Organization
Dr. Barbara Doty	MatSu Assembly	Kim Fox	Alaska LNG Project
Fritz Krusen	AGDC	Lydia Johnson	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 28, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Barrow, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Barrow		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Cynthia Trapp	Umiaq	Mike Boyle	Ecology & Environment
James Martin	Federal Energy Regulatory Commission (FERC)	Norm Scott	Alaska LNG Project
Jennifer Lee	Natural Resources Group (NRG)	Patti Trocki	ERM
Michael Nelson	Alaska LNG Project	Ruben Medrano	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Who has ownership of the gas? Is this project the same as the Alaska Stand Alone Pipeline (ASAP) Project? How are they different?
2	Stakeholder Issue	One attendee commented that the studies being conducted for the Alaska LNG Project had already been done for other projects. It was noted by Alaska LNG staff that they are working with Alaska Gasline Development Corporation (AGDC) to avoid duplication of studies.
3	Stakeholder Issue	The Alaska LNG team members were told by one of the interpreters that they had not heard any details about the FERC meeting on the radio. No flyers or notifications of the pending FERC meeting were observed on the public poster/flyer boards at the grocery store or at the Inupiat Heritage Center.
4	Stakeholder Issue	What is FERC?
5	Stakeholder Issue	What are the labor opportunities for the communities?
6	Stakeholder Issue	One attendee commented on the high level of safety that previous oil and gas operations required.
7	Stakeholder Action Item	Adjust future discussions to indicate that the CPAI LNG and Alaska LNG cooling processes are different. Q1 2016.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 27, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Kaktovik, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Project team unable to attend due to charter being delayed by weather.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carla Sims Kayotuk		Mike Boyle	Ecology & Environment
James Martin	Federal Energy Regulatory Commission (FERC)	Nora J. Burns	Arctic Chalet Tours
Jennifer Lee	Natural Resources Group (NRG)	Patti Trocki	ERM
Mark Morones	Alaska Department of Natural Resources (ADNR)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue - FERC Scoping Comment	Will all of communities along the pipeline be able to access the natural gas? I want Kaktovik to have an off-take for natural gas.
2	Stakeholder Issue - FERC Scoping Comment	So far, how many meetings have been held in Kaktovik about the project?
3	Stakeholder Issue - FERC Scoping Comment	Did the Federal Energy Regulatory Commission (FERC) contact the Native Village of Kaktovik about this meeting? Did FERC contact the Kaktovik Inupiat Corporation to let them know about this meeting?
4	Stakeholder Issue - FERC Scoping Comment	Kaktovik has a problem with erosion. The permafrost is melting fairly quickly.
5	Stakeholder Issue - FERC Scoping Comment	Are you considering earthquake issues in the Environmental Impact Statement (EIS)?
6	Stakeholder Issue - FERC Scoping Comment	There is a concern about the migratory patterns of caribou and how they have changed. I want to make sure this is included in the EIS.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 27, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Nikiski		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Barbara Phegley	Nikiski Resident	Mark Jen	United States Environmental Protection Agency (EPA)
Bill Warren		Matthew Horneman	Alaska LNG Project
Bob Harr	Harr Technologies LLC	Michael Nelson	Alaska LNG Project
Chris Grundman	Alaska Department of Natural Resources (ADNR)	Norm Scott	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Patti Williams	
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Peter McKay	
Dave Phegley	Nikiski Resident	Richard Magan	
Elizabeth Dolezal	Natural Resources Group (NRG)	Sheila Graham	
Eva Welch	AECOM	Steve Dahl	
Jason Vaillancourt	Natural Resources Group (NRG)	Steven Bush	TRI Alaska LLC
Josselyn OConnor	Alaska LNG Project	Sybill Castro	
Larry Persily	Kenai Peninsula Borough (KPB)	Tony Jackson	
Maggie Suter	Federal Energy Regulatory Commission (FERC)	Wayne Walton	
Manny Lopez	Paragon Partners Ltd		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Contact Constance Nicks regarding pages in the map book.
2	Stakeholder Action Item	Arrange speaker for Kenai Peninsula Economic Development District (KPEDD) January 2016 event.
3	Stakeholder Action Item	Contact Jeremy Malloy about the gasline route and his property. Q1 2016.
4	Stakeholder Issue	Would a 48-inch pipeline cost more?
5	Stakeholder Issue	Where would the LNG facility be located?
6	Stakeholder Issue	Does the project have buyers in place for the gas and have they signed contracts?
7	Stakeholder Issue	Attendees asked questions on the logistics of a 48-inch pipeline.
8	Stakeholder Issue	Is the western route still the preferred route?




9	Stakeholder Issue	How long is the construction phase?
10	Stakeholder Issue	One attendee noted not wanting to sell property to the project. Concern raised for the project right of ways encouraging use by snowmachines and off-highway vehicles, and increasing potential for trespass over adjacent private property. Concerned corridor users would leave trash along the right of way. Question about access to fishing setnet sites and beach access. If the project purchases our land, what does that do to the fishing rights? An attendee brought up concerns for his fishing lease area, and noted Chevron had severe impacts in the past on his fishing.
11	Stakeholder Issue	We want more question and answer time at public meetings. We want an Alaska LNG representative to address the entire audience instead of answering questions one-on-one.
12	Stakeholder Issue	Discussion regarding erosion on the bluffs and what has been done in the past to mitigate erosion. Concerns raised by attendees about local water table with water use by the LNG facility.
13	Stakeholder Issue	How can the project ensure the fish can still run?
14	Stakeholder Issue	The construction and work camps are going to increase crime in Nikiski.
15	Stakeholder Issue	Concern for adverse impacts to the community from increased traffic on the roads in the Kenai Peninsula.
16	Stakeholder Issue	Concerns raised by attendees over potential contamination of ground water from the LNG facility. One question asking if Alaska LNG is pouring antifreeze down wells on land purchased for the project.
17	Stakeholder Issue - FERC Scoping Comment	Would there be a right-of-way constructed where the pipeline comes ashore in Nikiski? Would there be above ground structures where the pipeline leaves Beluga and where it comes ashore in Nikiski? What would be the footprint of the proposed Beluga and Boulder Point facilities? Would there be "pig" launching and receiving stations or facilities on both sides of Cook Inlet? Would there be cathodic protection for the sub-inlet pipeline located at the facility where the pipeline comes ashore? Would there going to be compressor stations where the pipeline leaves Beluga and comes ashore in Nikiski? How would the project test the sub-inlet pipeline pressure? Would the pipeline be buried under Cook Inlet? If so, at what depth with it be laid on the sea floor? Would the best available controlled technology be utilized for gas-fired turbine exhaust boilers and other fuel burning devices? What are the plans for the dismantlement, removal and restoration of the LNG facilities and the pipeline?
18	Stakeholder Issue - FERC Scoping Comment	How safe would the LNG plant be? How would the project impact the set net sites near the docking facility? Would the portion of the pipeline from Boulder Point to the LNG facility be above or below ground? Would the shore house/building contain gas detecting and alarm equipment? Would the LNG plant run off of electric utility power? Would there be gas pressure relief devices at the shore facility? How would the project test the pipeline pressure at the LNG facility? Cook Inlet has very high volatile tide fluctuations. Would the Agrium plant be moved or re-opened? There is a concern about the amount of water the LNG plant intends to use.
19	Stakeholder Issue - FERC Scoping Comment	Would the proposed plant move the highway? When would the highway be relocated? There is a concern about not getting information to the affected commercial fishermen about possible road relocation. The new road by-pass needs to be a five lane road for safety reasons. The road relocation should go from mile 17 to mile 24.
20	Stakeholder Issue - FERC Scoping Comment	There are many rumors that the project has run out of money for land purchases, which gives off the impression that the citizens should be grateful for what the project offers. This is not right and a concern of the community.
21	Stakeholder Issue - FERC Scoping Comment	The project should not be able to pursue any more progress until it has a definite plan for purchasing homes from impacted people. How would this project be impacted if there was a financial crisis or money was demonetized?
22	Stakeholder Issue - FERC Scoping Comment	What are the routes for the access roads? Would the access roads be open to the public? Would the access roads become borough roads? Would the access roads be paved and maintained?
23	Stakeholder Issue - FERC Scoping Comment	Would the pipeline route go around or through Denali National Park?
24	Stakeholder Issue - FERC Scoping Comment	What is the end of useful life of the project?
25	Stakeholder Issue - FERC Scoping Comment	What are the plans for helping out locals impacted by the LNG facility? The route keeps changing, which means we are unable to plan.
26	Stakeholder Issue - FERC Scoping Comment	Would the area facility or pad where the pipeline comes ashore be fenced? Eminent domain should not be used. What would the project do with the purchased property? The project should consider buying out the homes of people in the Miller Loop area.

27	Stakeholder Issue - FERC Scoping Comment	Would Nikiski have a gas off-take?
28	Stakeholder Issue - FERC Scoping Comment	The coffee meeting dialogues have created an inconsistency in answers to questions. The project needs to be more forthcoming with answers to community concerns. The fishermen north of Nikiski have not been contacted about how they would be impacted.
29	Stakeholder Issue - FERC Scoping Comment	How would the Department of Homeland and Coast Guard mitigate the buffer requirements for the fishermen? Would there be another opportunity to come before the FERC committee?
30	Stakeholder Issue - FERC Scoping Comment	Has the project identified gravel sources for the project? The project should publish how much they paid for properties. The project lacks transparency.
31	Stakeholder Issue - FERC Scoping Comment	Concern for changes in the quality of life from the LNG facility. Trenchless methodology has been very useful in the areas of crossing critical areas of paleontology, wetlands, shore or beach approaches, raptor nesting areas, noise reductions, and historical sites and waterways, and should be considered. Families have spread ashes off the bluff, it is sacred ground.
32	Stakeholder Issue - FERC Scoping Comment	There is a concern about the clear-cutting of forests near the LNG facility. What precautions would the project take to keep from carrying invasive weeds from site to site?
33	Stakeholder Issue - FERC Scoping Comment	What are the potential impacts from a catastrophic event at the LNG facility? How likely is an explosion? Can the project provide a list of the hazardous gases and fluids that could be spilled or vented into the atmosphere? There should be a berm in place to protect the community in case of an explosion. How would the shockwave in an explosion impact the area around the LNG facility?
34	Stakeholder Issue - FERC Scoping Comment	Would construction or operation impact the water wells? How would this project impact our water table? How would the project prevent sea water from the Cook Inlet pipeline from migrating up along the pipeline into the shore facility location and/or fresh drinking water aquifers? How would the project monitor the ground water wells during construction and operation? Can the project provide detailed maps that show the wetlands and classification types of wetlands in the pipeline route on the Kenai Peninsula? What protections are going to be made for the air and water impacts?
35	Stakeholder Issue - FERC Scoping Comment	How would the project affect marine life in Cook Inlet? What would happen to the fish in the lake near our home? How would the acoustics effects of the pipeline under Cook Inlet impact marine mammals and fish? How would the moose, osprey, and eagles be impacted by this project? How would the fishing near Salamander Beach be impacted?
36	Stakeholder Issue - FERC Scoping Comment	How would the project house and feed the new people that are here for work? How would this project impact the value of my home?
37	Stakeholder Issue - FERC Scoping Comment	How would the influx of people impact the crime rate? How would the project help with the new burden on hospitals, fire departments, schools etc.? There is a concern that the crime rate would rise with the influx of work camps. How would the project work to prevent crime?
38	Stakeholder Issue - FERC Scoping Comment	Would the project have an impact on commercial and subsistence fishing?
39	Stakeholder Issue - FERC Scoping Comment	Would the LNG plant have a negative impact on air quality? Would the LNG plant emit any smell? Are there any emissions of methane or any other gas near the onshore facility when the pipeline is operational? Would the emissions from the project be monitored by the EPA or the ADEC?
40	Stakeholder Issue - FERC Scoping Comment	Would the LNG facility require high speed telephone and data conductors and if so, would those services be made available for the public in the Boulder Point area?
41	Stakeholder Issue - FERC Scoping Comment	How would the project handle all of the traffic during construction? How would the project impact traffic? How many vehicles per day would be traveling to where the pipeline comes to shore? What types of vehicles would be traveling to where the pipeline comes to shore? How would the trucks from the project impact traffic on the Kenai Spur Highway?
42	Stakeholder Issue - FERC Scoping Comment	How would the project impact vessel traffic in Cook Inlet? How busy would Cook Inlet be from the tankers?
43	Stakeholder Issue - FERC Scoping Comment	How would the project impact the septic systems in the area?
44	Stakeholder Issue - FERC Scoping Comment	Would the LNG plant contaminate the soil? Would the project test the water wells to obtain a baseline for salinity and/or contamination?
45	Stakeholder Issue - FERC Scoping Comment	How would dredging in Cook Inlet affect the fisheries?
46	Stakeholder Issue - FERC Scoping Comment	How likely is a fire?
47	Stakeholder Issue - FERC Scoping Comment	Would the project impact recreational opportunities in the Nikiski area? The recreational use of the beaches should be brought into consideration.

48	Stakeholder Issue - FERC Scoping Comment	How much noise would be present? The noise from the LNG facility is a concern. Would I be able to see the LNG plant or the marine terminal from my home?
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
	CONFIDENTIAL	Page 1 of 1

MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	October 28, 2015
Sub-Project Name	Integrated (All Segments)	Location	3605 Cartwright Ct, Fairbanks, AK 99709
Meeting Subject	Framing an Alaska Gas Pipeline Workforce Plan		

ATTENDEES			
Name	Organization	Name	Organization
Bill Hurley	ConocoPhillips	Kathy Leary	Ilisagvik College
Dan Robinson	Alaska Department of Labor and Workforce Development (ADLWD)	Kevin Pederson	Alaska LNG Project
Greg Cashen	Alaska Dept of Labor & Workforce Development	Kim Fox	Alaska LNG Project
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Mike Andrews	Alaska Department of Labor and Workforce Development (ADLWD)
Joe Thomas	Alaska Department of Labor and Workforce Development (ADLWD)	Phil Cochrane	BP Exploration Alaska
John Plutt	Fairbanks Plumbers and Pipefitters Training School	Randy Barnes	NORCON
Jon Lovedahl	Alaska Teamsters Training Trust	Wade Blasingame	Arctic Slope Regional Corporation (ASRC)
Jon Medaris	Alaska Joint Electrical Apprenticeship & Training Trust	Warren Christian	Doyon Associated, LLC

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 28, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Houston, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Houston		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Lisa Gray	Alaska LNG Project
David Boyer	CH2M HILL	Luke Marodi	Alaska LNG Project
David Sinclair	Paragon Partners Ltd	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Dawn Deiser		Marc Van Dongen	Matanuska Susitna Borough Port Mackenzie
Don Perrin	ADNR, Commissioner's Office	Mark Jennings	Alaska LNG Project
Earle Williams	BLM, Alaska State Office	RC Cromwell	Alaska Instrument Company
Elena Antonakos	Alaska LNG Project	Sandy Gibson	United States Army Corps of Engineers (USACE)
Elizabeth Dolezal	Natural Resources Group (NRG)	Shannon Miller	ADNR State Pipeline Coordinator's Section
Eva Welch	AECOM	Steve McDaniel	Alaska LNG Project
Frederick Deiser		Virgie Thompson	City of Houston
Jason Vaillancourt	Natural Resources Group (NRG)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Add Fred and Dawn Deiser to the project contact list.
2	Stakeholder Action Item	Check to see if Alaska Instrument Company is signed up as a vendor.
3	Stakeholder Issue	Can you farm on top of the land over the pipeline? How deep is the pipeline buried? Comment that flow meters are not made to work with 48-inch pipes.
4	Stakeholder Issue	One conversation revolved around whether or not the lower cost of gasoline would impact the affordability of this project.
5	Stakeholder Issue	Residents said they have a cabin between Pipeline Mileposts 717 and 718 near Fish Creek. Attendees stated they would prefer the eastern route and want the pipeline project to end at Port MacKenzie. Attendees were interested in the map books and the pipeline route as it related to their property and the surrounding area.
6	Stakeholder Issue	Attendees brought up concerns for their fishing lease area in Nikiski, and noted Chevron had severe impacts in the past on their fishing. The couple lives in Willow and fishes in Nikiski, and attended the Nikiski and Houston FERC meetings to discuss their concerns. It does not make sense to open up an area with access roads and then reclaim the land and close off the access.
7	Stakeholder Issue	Where will the off-takes be located?

8	Stakeholder Issue	Who decides the location of the off-takes?
9	Stakeholder Issue	Discussion on whether or not the project will need State of Alaska permits.
10	Stakeholder Issue	We need land developed and your access roads should stay for residents to use.
11	Stakeholder Issue	Owner of Alaska Instrument Company discussed how to register his business on the website.
12	Stakeholder Issue - FERC Scoping Comment	The east alternative route could save the state money.
13	Stakeholder Issue - FERC Scoping Comment	The Mat-Su Borough Port Commission supports the Alaska LNG Project going to Nikiski. However, we advocate for the alternative route which would come down the west side of the Susitna River to just below the Deshka Landing, cross to the east side of the Susitna River and angle down to Point MacKenzie (not Port MacKenzie) about four to five miles south and west of the Port, and then cross the Point Possession and follow an existing pipeline from Point Possession down to Nikiski. Mat-Su Borough Port Commission supports this route because it would eliminate the need to cross over ten salmon streams on the west side, it would avoid Alaska Native Corporation lands in Tyonek, it would allow companies proposing to build LNG facilities at Port MacKenzie to handle the state's 25 percent share of the gas, and the studies would be in place if this project falls through and the backup project of ASAP is built instead.
14	Stakeholder Issue - FERC Scoping Comment	How would the gasline benefit Alaskans if it is just going to Nikiski and being used for export? The route bypasses Fairbanks, Port MacKenzie, and Anchorage. We need to be able to provide gas to Alaskans.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 29, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Nuiqsut, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Nuiqsut		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Archie Ahkiviana (Nuiqsut Whaling Captains Association)	Nuiqsut Whaling Captains Association	Mark Jennings	Alaska LNG Project
Bill Maxson	Alaska LNG Project	Mark Morones	Alaska Department of Natural Resources (ADNR)
Caryn Rea	Alaska LNG Project	Matthew Horneman	Alaska LNG Project
Ed Nukapigak Jr.		Mike Boyle	Ecology & Environment
George Sielak	Arctic Slope Regional Corporation (ASRC)	Patti Trocki	ERM
Irene Mekiana		Robert Nukapigak	
James Martin	Federal Energy Regulatory Commission (FERC)	Whitney Moretti	Umiaq
Jennifer Lee	Natural Resources Group (NRG)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	The Alaska LNG team learned that the Kuukpik Board Meeting was occurring at the same time and should be noted for future meetings to avoid conflict.
2	Stakeholder Issue	Will the pipeline expand further west after the main route is constructed or just stay east in Deadhorse?
3	Stakeholder Issue	The community wants reassurance that concerns will be taken to the appropriate agencies, especially regarding caribou migration.
4	Stakeholder Issue	Concern that no one from the North Slope Borough attended the meeting to hear concerns.
5	Stakeholder Issue	Was the Alyeska Pipeline built under FERC's guidance?
6	Stakeholder Issue	Concern about the cost of living in Anaktuvuk Pass (specifically heating and food). Discrimination noted during the construction of TAPS in Anaktuvuk Pass. The Alaska LNG Project needs to benefit local communities.
7	Stakeholder Issue	There are hopes that that Alaska LNG keeps its promise to provide jobs to local labor force in whatever capacity possible. The Alaska LNG Project must help the residents of Anaktuvuk Pass get jobs.
8	Stakeholder Issue	There is concern about the project impacting caribou migration similar to the Alyeska Pipeline.
9	Stakeholder Issue	Alaska LNG should work with state regulators to change the regulations for bow and guided hunting that began as a result of the Dalton Highway construction. Currently the bow hunters can hunt in the spring when caribou are moving north from their wintering grounds to the coastal plain, but Nuiqsut would prefer that the timing be changed to the fall. Concern about roadside kills (specifically of caribou) along Dalton Highway and ice roads in the winter.

10	Stakeholder Issue	Suggestion for Fairbanks to get access to gas because they are currently burning a lot of wood for heat and people are getting sick from bad air quality.
11	Stakeholder Issue	Concern about health hazards. Concern about the increasing rate of suicide in Anaktuvuk Pass.
12	Stakeholder Issue	Increasing industrial activity in the area is a concern to Nuiqsut and Anaktuvuk Pass because we can now see the bright lights from town. We used to have to travel 30 miles outside of the village to see the lights.
13	Stakeholder Issue - FERC Scoping Comment	What is the general gasline route? Would it head west from Prudhoe Bay? Where would the pipeline end?
14	Stakeholder Issue - FERC Scoping Comment	Thank you for coming to Nuiqsut. Nuiqsut would like to give input on hunting regulations to the Alaska Department of Fish and Game.
15	Stakeholder Issue - FERC Scoping Comment	Fairbanks should get an off-take because fuel is expensive and they have poor air quality.
16	Stakeholder Issue - FERC Scoping Comment	Suggestion to change permitting time and location near the proposed pipeline to alleviate competition between subsistence and sport hunters. Nuiqsut attendee would like increased regulation of bow hunters.
17	Stakeholder Issue - FERC Scoping Comment	Attendee noted he would like to see FERC ensure the project brings some sort of needed resources to Nuiqsut and other outlying villages on the North Slope.
18	Stakeholder Issue - FERC Scoping Comment	Please help Nuiqsut and Anaktuvuk Pass find jobs with the projects.
19	Stakeholder Issue - FERC Scoping Comment	Concern for impacts to hunting and caribou migrations. Concern for competition with sport hunters, including those accessing areas from the Dalton Highway. Nuiqsut would like to harvest from the herds coming down from the foothills which go across Colville.
20	Stakeholder Issue - FERC Scoping Comment	Attendees raised concern for project impacts to suicide rates.
21	Stakeholder Issue - FERC Scoping Comment	Concern for accidents on the Dalton Highway with caribou. Concern that increased hunting pressure from public transportation corridors is affecting the migration patterns of caribou in the region (particularly on the Colville River).
22	Stakeholder Issue - FERC Scoping Comment	Concerns raised for social impacts of the project (high cost of heat and food). Attendee raised concern for discrimination of Alaska Natives.
23	Stakeholder Issue - FERC Scoping Comment	Nuiqsut can see bright lights near them from other projects already.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	October 29, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Trapper Creek, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Trapper Creek		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Art Wettanen		John Wood	
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Lisa Gray	Alaska LNG Project
David Sinclair	Paragon Partners Ltd	Luke Marodi	Alaska LNG Project
Don Perrin	ADNR, Commissioner's Office	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Earle Williams	BLM, Alaska State Office	Mark Jen	United States Environmental Protection Agency (EPA)
Elena Antonakos	Alaska LNG Project	Neil DeWitt	
Elizabeth Dolezal	Natural Resources Group (NRG)	Oscar Evon	E3 Environmental
George Menard		Sandy Gibson	United States Army Corps of Engineers (USACE)
Jason Vaillancourt	Natural Resources Group (NRG)	Steve McDaniel	Alaska LNG Project
John Strassenburgh			

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Does the project know of any compressor station locations in the Trapper Creek area up to 20 miles out? What is the width of the pipeline right of way? To what depth is the pipeline buried in the ground? What is the difference between the ASAP and Alaska LNG Projects?
2	Stakeholder Issue	How is the sulfur dioxide processed at the GTP? What is done with the Sulphur when removed from the gas?
3	Stakeholder Issue	What is the altitude of the Nikiski LNG facility (concern for tsunamis and volcanoes)?
4	Stakeholder Issue	This map does not show the pipe lay down areas or work camp locations. People would be very relieved if the pipeline routing is moved away from biologically sensitive areas. Trapper Creek residents were interested in the map book and wanted to see where the pipeline and road would be built in relation to their property and recreational trails.
5	Stakeholder Issue	Landowners near Cantwell wanted to look at the maps because they heard there were some changes to the alignment.
6	Stakeholder Issue	Why will the pipeline not cross the river on a narrower spot near Troublesome Creek? There is concern about the pipeline route crossing the Troublesome Creek area where people use the trail, which also has a bear population. On Highway Map 105: Mat-Su Borough (MSB) Access Road towards Alaska LNG Milepost 674.5 and future compressor stations, the community suggests using the MSB Access Road for future compressor stations rather than creating a new access road. A resident stated his concern about the route east of Milepost 650.

7	Stakeholder Issue	Would the pipeline affect subdivision access routes?
8	Stakeholder Issue	Are project members attending the State Parks Advisory Board meetings to gather their opinions?
9	Stakeholder Issue	Commenter noted that there may be a gas pipeline being built from Cook Inlet to the proposed Donlin Gold Mine in the Kuskokwim area.
10	Stakeholder Issue	The best map to see the area recreational trails is on the ADNR website, which shows the snowmachine trails. A member of the snowmachine club pointed out the trails on the map book around the Trapper Creek area and commented, as soon as we know what your plans are, we will comment and work with you. Generally, Trapper Creek wants to keep the off-highway vehicle/snowmachine trails open to be able to access their cabins. Would the pipeline affect moose hunting access routes? Concern for route near Troublesome Creek where people use the trail.
11	Stakeholder Issue - FERC Scoping Comment	The money spent on this project should be spent on researching and developing alternative energy for Alaska.
12	Stakeholder Issue - FERC Scoping Comment	Whenever possible, the project should route the pipeline on the east side of the Parks Highway.
13	Stakeholder Issue - FERC Scoping Comment	I encourage construction to be during the winter for the Troublesome Creek area due to the higher population of bears and people during the summer.
14	Stakeholder Issue - FERC Scoping Comment	I encourage the project to be sensitive to the route on the west side of the Parks Highway because of the need to access remote cabins, particularly in the Denali State Park vicinity and between Denali State Park and Trapper Creek.
15	Stakeholder Issue - FERC Scoping Comment	In addition to the five proposed off-takes, the project should have an industrial off-take point at Nikiski before the gas is liquefied in order to make gas available for industrial users.
16	Stakeholder Issue - FERC Scoping Comment	Concern for fish and fish habitat in the Mat-Su Borough. Worried about impacts to salmon-bearing streams and how they would be crossed without damaging fish habitat.
17	Stakeholder Issue - FERC Scoping Comment	The thickness of the pipeline next to Susitna Valley (Su-Valley) High School should be thicker than the rest of the pipeline for safety.
18	Stakeholder Issue - FERC Scoping Comment	There is a concern for impacts to the viewshed at Denali State Park. Shield views of clearing and the right-of-way from Curry Ridge and Kesugi Ridge.
19	Stakeholder Issue - FERC Scoping Comment	Respect and minimize impacts to Denali State Park trails and recreationists.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	October 29, 2015
<b>Sub-Project Name</b>	Integrated (All Segments), Marine Terminal	<b>Location</b>	Homer, AK
<b>Meeting Subject</b>	Project Overview to Homer Rotary Club		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Bob Shavelson	Cook Inletkeeper	Mary Koester (Katie)	City of Homer
Claire Joseph	Alaska LNG Project	Quinton Chandler	KBBI Radio
Josselyn O'Connor	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Project Overview	After an introduction by Bob Shavelson (who invited the Project representatives to speak), Josselyn O'Connor presented the Project Overview to the Rotary Club meeting attendees. She fielded questions after the presentation. Questions included: Will the Project advance given the low price of natural gas? How much will in-state natural gas cost for consumers? Where do/will Project team members live during FEED stage (the individual had property he would like to rent-out in the Kenai area)?
2	Project Overview	After an introduction by Bob Shavelson (who invited the Project representatives to speak), Josselyn O'Connor presented the Project Overview to the Rotary Club meeting attendees. She fielded questions after the presentation. Questions included: Will the Project advance given the low price of natural gas? How much will in-state natural gas cost for consumers? Where do/will Project team members live during FEED stage (the individual had property he would like to rent-out in the Kenai area)?
3	Stakeholder Issue	Will the project move forward given the low price of natural gas?
4	Stakeholder Issue	How much will in-state natural gas cost for consumers?
5	Stakeholder Issue	Where will project team members live during the front end engineering design (FEED) stage? The individual asking had property he would like to rent-out in the Kenai area.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	November 2, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Monthly meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Fred Miller	Nikiski Community Council	Larry Persily	Kenai Peninsula Borough (KPB)
Josselyn OConnor	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Meeting Notes and Discussion	28-30 in attendance ADF&G presented findings from Subsistence Survey in the Nikiski area. They stated Alaska LNG helped pay for the survey. Fred Braun - stated to the group that Alaska LNG has a job to do. The community needs to be respectful to the Project reps at future community meetings. KSH Meeting feedback - too many options shown, 5 lanes needed, think the Project already knows the route Larry Persily (KPB) - hosting two meetings in Nikiski to connect directly with the community. Larry also handed out two maps prepared by the Borough (1:KSH options, 1: LNG facility in detail)
2	Stakeholder Issue	There were too many options shown for the Kenai Spur Highway Relocation. Attendee stated five lanes are needed. Attendee stated he thinks the project already knows the finalized route.
3	Stakeholder Issue	Participant stated to the group that Alaska LNG has a job to do and the community needs to be respectful to the project representatives at future community meetings.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Unplanned/chance encounter	Date of Meeting	November 3, 2015
Sub-Project Name	Integrated (All Segments)	Location	Hall St, Fairbanks, AK 99701
Meeting Subject	Project update - introduction		

ATTENDEES			
Name	Organization	Name	Organization
Fritz Krusen	AGDC	Lydia Johnson	Alaska LNG Project
Karl Kassel	Fairbanks North Star Borough		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	November 4, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	University of Alaska Fairbanks: University Park Building, 1000 University Ave, Fairbanks, AK 99709
<b>Meeting Subject</b>	Project introduction		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Evon Peter	University of Alaska Fairbanks	Keith Swarmer	
Fred Villa		Lydia Johnson	Alaska LNG Project
Fritz Krusen	AGDC	Michelle Stadler	
Kathy Mayo	Kathy Mayo & Associates		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	November 9, 2015
<b>Sub-Project Name</b>	Kenai Spur Highway reroute	<b>Location</b>	2525 C St, Anchorage, AK 99503
<b>Meeting Subject</b>	Alaska LNG Project: Kenai Spur Highway Relocation: DOT&PF Update		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carol Snead	HDR	Mark Dalton	HDR
Jeff Raun	Alaska LNG Project	Scott Guttormson	Alaska LNG Project
Ken Morton	Alaska Department of Transportation and Public Facilities (ADOTPF)	Scott Wharton	HDR

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Bi-weekly meeting with DOT&PF	TIA and Review of meeting with KPB. HDR will write an email explaining the issue related to functional class of KSH and LOS thresholds. HDR will prepare an in-progress review copy of the TIA, providing some context for the email. Alaska LNG project will review email and in-progress TIA, then transmit to DOT&PF. Alaska LNG project will review TIA growth projections with socioeconomics team for the FERC EIS; if FERC EIS growth projections are supported by more data/analysis, HDR will use those growth rates.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Unplanned/chance encounter	<b>Date of Meeting</b>	November 4, 2015
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	Introductory session		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Barb Garber	Toghotthele Corporation	Jaclyn Silas	Minto Development Corporation
Bertina Titus		Kathy Demientieff Morgan	Native Village of Nenana
Bessie Titus (Tribal Administrator)	Native Village of Minto	Kathy Mayo	Kathy Mayo & Associates
Buddy Van Hatten		Ken Charlie	Seth-De-Ya-Ah Corporation
Carla Dick	Seth-De-Ya-Ah Corporation	Lydia Johnson	Alaska LNG Project
Carlos Frank	Minto Development Corporation	Rocky Riley	Tolovana Construction Company Inc
Doug Isaacson	Minto Development Corporation	Roy Charlie Seth	Seth-De-Ya-Ah Corporation
Edna Riley	Seth-De-Ya-Ah Corporation	Victor Lord	
Fritz Krusen	AGDC		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>


## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	November 13, 2015
Sub-Project Name		Location	Anchorage, AK
Meeting Subject	Project Update to Associated General Contractors of Alaska		

ATTENDEES			
Name	Organization	Name	Organization
Jeff Raun	Alaska LNG Project	Ross Sorensen	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	November 14, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal	<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Conversation with United Cook Inlet Drift Association (UCIDA) leadership		

## ATTENDEES

Name	Organization	Name	Organization
Claire Joseph	Alaska LNG Project	Josselyn OConnor	Alaska LNG Project
Dave Martin	United Cook Inlet Drift Association (UCIDA)	Roland Maw	United Cook Inlet Drift Association (UCIDA)

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	UCIDA interests and concerns	<p>The meeting was organized as a result of UCIDA questions/comments about Alaska LNG which were raised at the November 4, 2015 Cook Inlet Harbor Safety Committee meeting. Dave Martin and Roland Maw expressed a number of concerns of the UCIDA membership about the Alaska LNG Project, including the potential for a safety zone or regulated navigation area around LNGCs and the need to allow setnet and driftnet fishing activities in close proximity to the LNGCs and the marine facilities at Nikiski. Dave Martin explained that the area near the proposed marine terminal is a very important fishing area, and some years the fish run south from the Forelands and straight into the nets of waiting drift net fishermen. It was discussed that Kenai LNG has been operating in cooperation with the local fishing industry throughout the years and that Alaska LNG Project could do the same thing, particularly given that the fishing season is short compared to the year-round operations of the LNGCs. Dave Martin expressed that the UCIDA membership doesn't view laden LNGCs any differently than any other vessel on Cook Inlet. Claire Joseph explained that no decisions had been made yet (nor has the Project requested that any decisions be made by regulatory agencies such as the US Coast Guard). Dave Martin expressed that that does not sit well with them, but later in the conversation seemed to appreciate the Project's early stage and why the Project team members cannot make commitments so far in advance when the Project is not funded or sanctioned yet. Roland Maw explained previous experience with MMS, when he was told that they would not take action on something, and then MMS turned around and took action shortly thereafter. Dave Martin and Roland Maw expressed that there must be a rapid and reliable way to have gear replaced if it is damaged by the LNGCs. They explained that the process of gear replacement with tugs and other vessel operators in Cook Inlet works well. Josselyn explained the communication ongoing with the set netters, and the group discussed the importance of beach access, particularly for the area north of the Kenai River. Dave Martin and Roland Maw said that communication and awareness are important through training, use of the radios, and also Notice to Mariners and schedules for vessel transits. Dave Martin explained that although UCIDA is focused on one gear type (drift net), that escapement goals for the health of the fishery is an industry focus, and that it was important that Alaska LNG works with other organizations such as the KPFA and the Cook Inlet Fisherman's Fund. Dave Martin is the point of contact for Cook Inlet Fisherman's Fund. Dave Martin said that he was very involved in the Alaska Wild Kenai Salmon campaign in the 1990s. Claire Joseph explained to the group the different regulatory processes, including the Waterway Suitability Assessment and the FERC Pre-Filing Process, and also explained how the Project is paying attention to the activities of the Cook Inlet Harbor Safety Committee but isn't an operator yet and therefore has to limit involvement in that organization. Josselyn recommended that UCIDA submit information to FERC during the scoping period (prior to December 4), and she said that she'd provide the link to FERC docket to Dave and Roland. Claire Joseph said that the Project had had a successful marine field investigation season in Cook Inlet in 2015, and would be conducting another program in 2016. Josselyn suggested that the Project could present again at next year's UCIDA annual meeting.</p>

2	Stakeholder Issue	Participants expressed a number of concerns of the United Cook Inlet Drift Association (UCIDA) membership about the Alaska LNG Project, including the potential for a safety zone or regulated navigation area around LNG carriers (LNGCs). They expressed the need to allow setnet and driftnet fishing activities in close proximity to the LNGCs and the marine facilities at Nikiski. The area near the proposed marine terminal is important for fishing, and some years the fish run south from the Forelands and straight into the nets of waiting driftnets. Kenai LNG has been operating in cooperation with the local fishing industry throughout the years and Alaska LNG could do the same thing, particularly given the short fishing season compared to the year-round operations of the LNGCs.
3	Stakeholder Issue	UCIDA discussed the importance of beach access, particularly for the area north of the Kenai River.
4	Stakeholder Issue	UCIDA stated communication and awareness are important and can be done through training, the use of the radios, Notices to Mariners, and schedules for vessel transits. It is important Alaska LNG works with other organizations, such as the Kenai Peninsula Fishermen's Association (KPFA) and the Cook Inlet Fisherman's Fund.
5	Stakeholder Issue	Although UCIDA is focused on one gear type (driftnet), the escapement goals for the health of the fishery are an industry focus.
6	Stakeholder Issue	The UCIDA membership does not view laden LNGCs any differently than other vessels on Cook Inlet. There must be a rapid and reliable way to have gear replaced if it is damaged by the LNGCs. They explained that the process of gear replacement with tugs and other vessel operators in Cook Inlet works well.

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	November 14, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Fundraising Gala for the Boys & Girls Clubs of the Kenai Peninsula		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Claire Joseph	Alaska LNG Project	Mike Chenault (Juneau Address)	House of Representatives
Jeff Raun	Alaska LNG Project	Mike Navarre	Kenai Peninsula Borough (KPB)
Josselyn OConnor	Alaska LNG Project	Peter Micciche (Juneau)	Alaska State Senate
Kurt Olson (Juneau)	House of Representatives	Ross Sorensen	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Overview	~400 attendees Alaska LNG Project table sponsor at \$1000 level Used the opportunity to introduce project team to community leaders.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	November 17, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Coldfoot, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Project team were unable to attend due to dangerous driving conditions in sub zero conditions.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Jason Vaillancourt	Natural Resources Group (NRG)
Earle Williams	BLM, Alaska State Office	Mike Boyle	Ecology & Environment
Eric Howard	FERC, Division of Gas - Environment and Engineering Office of Energy Projects	Scott Lanier	
Jack Reakoff (Wiseman address)	Wiseman Community Association		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue - FERC Scoping Comment	The project should re-look at the area near the Koyukuk Bridge Highway route where it crosses the road because of the high landslide activities. There is potential for salification in that area. The project should be aware of the landslide areas if the pipeline will be on the east side of the road.
2	Stakeholder Issue - FERC Scoping Comment	Construction should not take place during hunting season (avoid the fall time especially). Construction in areas of critical moose habitat should be in early winter when the snow is not as deep.
3	Stakeholder Issue - FERC Scoping Comment	There should be no gravel extraction in the community of Coldfoot. The existing gravel extraction sites near Wiseman should be utilized.
4	Stakeholder Issue - FERC Scoping Comment	There are some areas of environmental concern and deep snow areas in the valley at the head of the Dietrich River and south of the Cove. I am concerned for potential effects from construction equipment over deep snow.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

Meeting Type	Community Meeting/Open house	Date of Meeting	November 17, 2015
Sub-Project Name		Location	Healy, AK
Meeting Subject	FERC Public Scoping Meeting - Healy		

## ATTENDEES

Name	Organization	Name	Organization
Andrea Thornton	Natural Resources Group (NRG)	Lauren Haskins	
David Sinclair	Paragon Partners Ltd	Luke Marodi	Alaska LNG Project
Elena Antonakos	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Eva Welch	AECOM	Mark Jennings	Alaska LNG Project
Jared Zimmerman	Denali Borough Assembly	Missy Somers	
Jennifer Lee	Natural Resources Group (NRG)	Rob Burros	
Jerryne Cole		Vicki Nelson	
Kimber Burrows			

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Add participants to the mailing list.
2	Stakeholder Action Item	Email Jerryne Cole for more email addresses to add to the mailing list.
3	Stakeholder Action Item	Verify route in relation to land owned by Janet Powers. Q4 2015.
4	Stakeholder Action Item	Mr. Hinman said he has 40 acres around Milepost 515 of the pipeline that could be used for staging. Send this information to Dave Sinclair, Luke Marodi, Jay Moylan, and Ross Sorenson.
5	Stakeholder Issue	What does MLBV mean? Will the project add sand if needed? Questions regarding the operating and maximum pressure of the mainline. Is the pipeline buried through Atigun Pass? How deep would the pipeline be buried? What are heater stations?
6	Stakeholder Issue	Would Cook Inlet need to be dredged? Would the ships be bigger than ones currently coming out of Nikiski?
7	Stakeholder Issue	Who funds the pipeline and will the federal government contribute any money?
8	Stakeholder Issue	A resident said he has 40 acres around Milepost 515 of the pipeline that can be used for staging. Alaska LNG has his contact information.
9	Stakeholder Issue	Attendee wanted to see the laydown yard locations. How far apart are the access roads? We heard they would be every quarter mile.

10	Stakeholder Issue	Where is the route in relation to Denali National Park? Feedback was mixed; many understood the benefits of a Denali National Park route but were concerned about how the alternate route through Denali National Park may impact their land near McKinley Village. Does the Parks Highway run through part of Denali National Park? Why does the project not follow the Denali National Park road? Discussions on construction in the Nenana canyon area where the pipeline runs right next to the road. One resident commented that the state was blasting to move the rock back away from the highway. Janet Powers discussed previous route maps that showed the pipeline going under Jim Creek and through her driveway. The map book now shows that the route is on the other side of the highway and not on her land; she said ASAP drilled on her land. Run the pipeline through Denali National Park; there is lots of room in there. What is the project doing around McKinley Village? Where would the access road be located? The railroad is in the middle of everything the project would do in the Denali National Park area.
11	Stakeholder Issue	How long would construction last? Attendees stated that they do not want construction during tourist season.
12	Stakeholder Issue	Why does the project not use the railroad right of way? How wide is the pipeline right of way, adjacent to the Park Highway right of way, when going through the Nenana canyon? Would the project need a 180 foot wide right of way at that location [Nenana Canyon]? Would the project right of way overlap or be adjacent to the Intertie?
13	Stakeholder Issue	Who decides on off-takes?
14	Stakeholder Issue	Did Alaska LNG do the GeoTech data (borings) in the area?
15	Stakeholder Issue	There was a discussion on local hire during the Healy FERC Q&A.
16	Stakeholder Issue	ADOT&PF has gravel pits that could be used for this project. (In reference to the gravel pit at Milepost 522 of the pipeline.)
17	Stakeholder Issue	What will happen if the pipe ruptures? Would the project regularly go along the entire route and inspect the pipeline?
18	Stakeholder Issue	Does the project reclaim the land used for access roads?
19	Stakeholder Issue	How does the heater station noise compare to compressor station noise? How much noise do compressor stations make? Citizens are concerned about noise pollution.
20	Stakeholder Issue	We [in the Healy area] are concerned with the impact on land used for local recreation. An owner of a local horse riding tour company stated that she believes the pipeline will harm her business because she gives trail rides in the area.
21	Stakeholder Issue - FERC Scoping Comment	Would the temporary access roads be reclaimed? What would happen to the project infrastructure upon closure?
22	Stakeholder Issue - FERC Scoping Comment	How big would the LNG tankers be coming into the marine terminal?
23	Stakeholder Issue - FERC Scoping Comment	How far apart would the construction access roads be and where would they be located?
24	Stakeholder Issue - FERC Scoping Comment	The tourism economy in the Denali Borough should be protected. Concern for tourism industry with proposed route through Nenana Canyon. Disruptions during construction should be assessed. How would the project impact tourism and businesses in Greater Denali area?
25	Stakeholder Issue - FERC Scoping Comment	Would there be public access to the pipeline corridor? Would there be access to construction roads?
26	Stakeholder Issue - FERC Scoping Comment	Healy is interested in year-round jobs with the project, such as at pump stations.
27	Stakeholder Issue - FERC Scoping Comment	What mitigation is there for fish habitat potentially impacted by increased marine traffic in the Nikiski area?
28	Stakeholder Issue - FERC Scoping Comment	Our local government is limited in the Denali Borough, and our small communities have limited ability to take advantage of project impact data and potential changes to the economy.
29	Stakeholder Issue - FERC Scoping Comment	Please fully consider all the socioeconomic impacts the project could have on Healy, especially during the construction boom. Attendee brought concern for the project hindering future development in the Denali Borough with in-progress title exchange for state/borough selected lands.
30	Stakeholder Issue - FERC Scoping Comment	The corridor passes the boundary of Gates of the Arctic National Park and Denali National Park, which are designated as wilderness. The project should consider the impact it may have on the wilderness character, including viewshed changes and noise levels.

31	Stakeholder Issue - FERC Scoping Comment	What is the carbon footprint for this project? I would like to see climate change impacts considered in the EIS. Is the project aware of the executive order and draft guidance for agencies to consider climate change and greenhouse gases?
32	Stakeholder Issue - FERC Scoping Comment	Would there be dredging in Cook Inlet? If there is dredging, what kind of impacts could there be?
33	Stakeholder Issue - FERC Scoping Comment	Considers impacts to noise levels and viewsheds. Concern raised for noise from compressor stations.
34	Stakeholder Issue - FERC Scoping Comment	Concern for potential impacts to recreational wilderness used by local residents. Concern for impacts to recreation from construction access roads.

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	November 18, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Nenana, AK 99760
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Nenana		

## ATTENDEES


Name	Organization	Name	Organization
Andrea Thornton	Natural Resources Group (NRG)	Jennifer Lee	Natural Resources Group (NRG)
David Sinclair	Paragon Partners Ltd	Luke Marodi	Alaska LNG Project
Don Perrin	ADNR, Commissioner's Office	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Elena Antonakos	Alaska LNG Project	Mark Jennings	Alaska LNG Project
Eva Welch	AECOM	Missy Somers	

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Confirm whether the project contacted Ty Duggar.
2	Stakeholder Issue	Several attendees asked if the pipeline was above or below ground. Would there be a private road along the pipeline?
3	Stakeholder Issue	Is it a good or bad thing that the state is buying out TransCanada? I hope the project goes into construction; this would be good for everyone.
4	Stakeholder Issue	How does the project drill under a river?
5	Stakeholder Issue	An attendee received a letter last year saying an access road may go down his section line, but the current route does not appear to show the pipeline crossing near his homestead. A resident said that there is serious boggy ground in the route shown that had not frozen until one week ago. Does the route come into Nenana?
6	Stakeholder Issue	How long would the construction take? Participants discussed what work could be done in the winter verses what could be done in the summer.
7	Stakeholder Issue	One resident commented that agricultural parcels run all the way to Two Mile Lake, but the current routing appears to miss them.
8	Stakeholder Issue	Will there be any off-takes in Nenana? Nenana has good road and rail access, but no manufacturing business. If we had inexpensive energy we could attract more industry work. We need the gasline to go to Nenana. To whom would the residents have to pay their gas bill?
9	Stakeholder Issue	Who decides on off-takes?
10	Stakeholder Issue	There was a discussion of the old and new political problems in Nenana.
11	Stakeholder Issue	Nenana is the perfect place to barge supplies. The project can haul supplies on the road or railroad and then barge up the river. We have major railroad siding areas. Expensive energy is holding back business growth in Nenana. Nenana is tied to Fairbanks, but we are our own community. This pipeline could do great things for the state and especially for the Interior. If we became a producer state with industry we could fix our budget problems.
12	Stakeholder Issue	One resident stated he had a trapline in the area of the pipeline.

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	November 18, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Tyonek, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Tyonek		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Josselyn OConnor	Alaska LNG Project
Eric Howard	FERC, Division of Gas - Environment and Engineering Office of Energy Projects	Larry Persily	Kenai Peninsula Borough (KPB)
Gwen Chickalusion		Matthew Horneman	Alaska LNG Project
Harriet Kaufman	Tebughna Foundation	Mike Boyle	Ecology & Environment
Harry Crofton	ConocoPhillips	Robert Stephan	
Jason Standifer	Tyonek Native Corporation	Rosetta Alcantra	E3 Environmental
Jason Vaillancourt	Natural Resources Group (NRG)	Ryan Chladek	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Shannon Miller	ADNR State Pipeline Coordinator's Section

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Send a large regional map to Tyonek.
2	Stakeholder Issue	What would the project use to drill?
3	Stakeholder Issue	When would the project dig into the ocean? Would it be at slack tide or high tide?
4	Stakeholder Issue	Has the project considered coming south of Viapan Lake? This route might be a better option.
5	Stakeholder Issue	Attendees wanted to see a larger map showing Tyonek over the small layout maps for orientation of the project.
6	Stakeholder Issue	The Chuitna River is the area of our ancestors.
7	Stakeholder Issue	Would there be clear cutting of the forest?
8	Stakeholder Issue	How would the project deal with underground leaks? How would the project handle a leak in the middle of the Cook Inlet?
9	Stakeholder Issue	If Tyonek lets the Alaska LNG Project proceed first, then can we can say "no" to the proposed Chuitna Coal Project? There are solid coal beds out in the Cook Inlet.
10	Stakeholder Issue	Noise impacts to marine mammals are a concern.
11	Stakeholder Issue - FERC Scoping Comment	Would the pipeline be above or below ground? Would the pipeline be underground or under the mud in Cook Inlet? How deep underground would the pipeline be under Cook Inlet?
12	Stakeholder Issue - FERC Scoping Comment	How large would the LNG facility be?

13	Stakeholder Issue - FERC Scoping Comment	Would the pipeline cross under Cook Inlet? Where would the pipeline enter Cook Inlet? Where does the pipeline go through Tyonek? How close would the pipeline be to residential areas in Tyonek? There is a concern that the project is only a mile away from the community's cultural capital.
14	Stakeholder Issue - FERC Scoping Comment	When would the project begin construction?
15	Stakeholder Issue - FERC Scoping Comment	Some of the land proposed for the project belongs to the Native Village of Tyonek.
16	Stakeholder Issue - FERC Scoping Comment	How many days do we have to comment on the project? When will the project have more final maps and information on which the community of Tyonek can comment? Will comments be considered after the Draft EIS?
17	Stakeholder Issue - FERC Scoping Comment	Concern for sediment drifting when a trench is dug. Concern for sand bar formation.
18	Stakeholder Issue - FERC Scoping Comment	Tyonek is located on a fault line. Has the project done any seismic studies?
19	Stakeholder Issue - FERC Scoping Comment	Would the methane gas hurt the fish in Cook Inlet?
20	Stakeholder Issue - FERC Scoping Comment	There are a lot of marsh lands on the proposed route near Tyonek. Concern for wetlands drying up after digging in the area.
21	Stakeholder Issue - FERC Scoping Comment	How would the project impact waterfowl? How would the project impact fish, including salmon? Beluga whales come to Tyonek in the spring, summer and fall. How would the project impact the endangered Beluga whales?
22	Stakeholder Issue - FERC Scoping Comment	Would the project impact subsistence in Tyonek? We live off the land. How would the project impact traditional plants?
23	Stakeholder Issue - FERC Scoping Comment	There is a concern about the project trenching in Cook Inlet; anything dug up will be taken towards Beluga. Would the project require dredging?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	November 19, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Fairbanks		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andrea Thornton	Natural Resources Group (NRG)	Karl Gohlke	Frontier Supply Company
Bob Sattler		Kevin Jardell	Kevin Jardell & Associates
Claire Joseph	Alaska LNG Project	Luke Marodi	Alaska LNG Project
David Prusak		Maggie Suter	Federal Energy Regulatory Commission (FERC)
David Sinclair	Paragon Partners Ltd	Mark Ebel	
Don Perrin	ADNR, Commissioner's Office	Mark Jennings	Alaska LNG Project
Elena Antonakos	Alaska LNG Project	Merrick Peirce	
Eva Welch	AECOM	Missy Somers	
Jennifer Lee	Natural Resources Group (NRG)	Randy Mayo (Stevens Village)	Stevens Village Native Council
Jewel Bennett	United States Fish and Wildlife Service (USFWS)	Richard Solie	Tower Hill Mines
Johanna Dreher	E3 Environmental	Stephen Haagenson	
John Davies	Fairbanks North Star Borough Assembly	Tim Lohmer	
Jomo Stewart	Fairbanks Economic Development Corp	Tom DeLong	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Put maps on the project website.
2	Stakeholder Action Item	Look up contact history and project nexus to land owned by Mark Ebel.
3	Stakeholder Issue	When will there be only one gasline project? There is proposed currently the state's ASAP and the Alaska LNG, which creates confusion. Discussion on Alaska LNG and ASAP and cooperative agreements between the two projects. Discussions on the size and cost of 42-inch and 48-inch pipe. What would be the pressure in the pipeline? Would the pipeline be below or above ground? How deep would the pipe be buried? How far apart would the mainline block valves (MLBVs) be located? Where would the compressor stations be located?
4	Stakeholder Issue	How much gas would come out of Point Thomson?
5	Stakeholder Issue	How will the EIS evaluate site selection for the LNG facility? Did the project have public comment input for the selection of the LNG facility location?

6	Stakeholder Issue	Has the route been finalized? How far away from TAPS would the Alaska LNG gasline be in areas where the pipes would be parallel?
7	Stakeholder Issue	Discussion on routing the gasline through Denali National Park verses going along the route currently shown. Why is the project not following TAPS and going through Fairbanks? Why go through Minto Flats? Going along TAPS and through Fairbanks has a lower environmental impact. I have not seen anything in project information considering a route to Fairbanks. A participant wanted the project to consider a route closer to the Murphy Dome area in order to reduce the distance Fairbanks and other communities would need to build a pipeline to get gas service. Discussion about where the route crosses the Yukon River.
8	Stakeholder Issue	How long would construction last?
9	Stakeholder Issue	A meeting attendee was concerned about his parcel of land, but it is unlikely the project would need it. Could motorized vehicles be driven over the buried pipe? Landowners should be compensated if the pipeline comes across their land.
10	Stakeholder Issue	Fairbanks needs a less expensive source of energy.
11	Stakeholder Issue	Have the off-take locations been decided? When will the off-takes be announced?
12	Stakeholder Issue	Are the maps on the project website?
13	Stakeholder Issue	How does the EIS work in regards to site selection for the LNG facility? The NEPA review needs to comprehensively include alternatives analyses for the pipeline routes to the various LNG terminus locations.
14	Stakeholder Issue	How do companies become a contractor for the project?
15	Stakeholder Issue	Where could materials for the pipeline be sourced?
16	Stakeholder Issue	Land along the Denali National Park route is used for skiing, mushing, snowmachining, and hunting. We are concerned about how the project is going to access this land. What would be the potential impact to hunting?
17	Stakeholder Issue - FERC Scoping Comment	How far apart are the emergency shut down valves? What are the demolition plans for when the project is complete and the gas is all used? Does the FERC process have any say in disposition of the carbon dioxide from the gas plant and the liquefaction plant?
18	Stakeholder Issue - FERC Scoping Comment	Would the project re-inject or vent the carbon dioxide that is taken out of the gas?
19	Stakeholder Issue - FERC Scoping Comment	We support this project. The project should consider alternative energy resources. The project should look into high-voltage direct current (HVDC) lines as an alternative to natural gas.
20	Stakeholder Issue - FERC Scoping Comment	The project should use existing rights-of-way. The project should look into all of the proposed routes.
21	Stakeholder Issue - FERC Scoping Comment	The pipeline should go down the existing Elliott Highway. The pipeline route should pass east of Fairbanks near Old Murphy Dome Road, which has an existing firebreak and right-of-way. The pipeline route should come through Fairbanks. A spur line to Fairbanks would be too expensive; the pipeline should come straight through Fairbanks.
22	Stakeholder Issue - FERC Scoping Comment	The pipeline should go from Prudhoe Bay to Valdez. The pipeline should follow the TAPS corridor to Valdez. Valdez is more favorable for the LNG plant and marine terminal. The existing infrastructure makes Valdez more appealing for the LNG facility and marine terminal. Vessel traffic is safer in Valdez, there are no huge tides and no ice. The project would save money if it were routed to Valdez. The Valdez route allows Eielson Air Force Base and National Missile Defense areas to have access to gas.
23	Stakeholder Issue - FERC Scoping Comment	The project should pay rent for personal properties that it crosses.
24	Stakeholder Issue - FERC Scoping Comment	Fairbanks should have an off-take.
25	Stakeholder Issue - FERC Scoping Comment	The Towerhill Mine near Livengood could potentially use a lot of natural gas. A spur line to Fairbanks should be included in the EIS.
26	Stakeholder Issue - FERC Scoping Comment	Local input needs to be considered in the planning process.
27	Stakeholder Issue - FERC Scoping Comment	The project should avoid Congressional Executive Privilege for decisions on this project. FERC should consider an adaptive management alternative as part of their environmental review.
28	Stakeholder Issue - FERC Scoping Comment	The mechanical contractors of Fairbanks are ready to start this project.

29	Stakeholder Issue - FERC Scoping Comment	The project should work to minimize the footprint of the utility corridor near the Yukon River. The project should minimize negative environmental impacts.
30	Stakeholder Issue - FERC Scoping Comment	The permafrost north of the Brooks Range is getting warmer and easier to impact.
31	Stakeholder Issue - FERC Scoping Comment	Has the project looked into the possible earthquakes?
32	Stakeholder Issue - FERC Scoping Comment	How would a tanker spill impact Cook Inlet?
33	Stakeholder Issue - FERC Scoping Comment	The Valdez route does not impact the salmon runs in the Susitna River. The Valdez routes protects the endangered Beluga whales.
34	Stakeholder Issue - FERC Scoping Comment	The past development projects have impacted subsistence hunting. How would the project impact hunting areas? The Valdez route does not impact the Minto Flats, a heavy subsistence area. The Minto Flats wetland area has extreme value.
35	Stakeholder Issue - FERC Scoping Comment	Air quality is a huge concern in Fairbanks. The air quality in Fairbanks is bad, and Alaska LNG could solve that problem.
36	Stakeholder Issue - FERC Scoping Comment	The project should take into consideration the possibility of forest fires.

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	November 19, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Anchorage		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Carl Portman	Resource Development Council	Michael Britton	Alaska LNG Project
Cathy Giessel (Juneau)	Alaska State Senate	Michael Jespersen	
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Mike Boyle	Ecology & Environment
Dominic Lee	Little Susitna Construction Company, Inc.	Nancy Bale (Anchorage)	Denali Citizens Council
Doug Smith	ASRC Construction Holding	Nancy Bale (Denali Park)	Denali Citizens Council
Erika Herlugson	Alaska LNG Project	Oscar Evon	E3 Environmental
Jason Vaillancourt	Natural Resources Group (NRG)	Pat Metcalf	Alaska LNG Project
John O'Day		Patty Murphy	E3 Environmental
John Shively	Pebble Limited Partnership	Ruben Medrano	Alaska LNG Project
Joshua Vo	AECOM	Russell Sell	
Karen Wuestenfeld	Alaska LNG Project	Sarah Erkman	
Kathleen O'Connell		Steve Butt	Alaska LNG Project
Larry Weaver	Alaska Gas Line Port Authority	Tami Schlies	E3 Environmental
Lisa Gray	Alaska LNG Project	Tammy Smith	Little Susitna Construction Company, Inc.
Lydia Johnson	Alaska LNG Project	Tom LaKosh	
Malcom Roberts			

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS


<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue - FERC Scoping Comment	The pipeline should follow the TAPS right-of-way to Valdez. Valdez is the preferred location for the LNG facility. The Valdez route allows for less environmental impact. The existing infrastructure in Valdez requires less clearing and grading for the pipe. Valdez is a safer option because it is an ice free port year around. The marine pilots prefer the Port of Valdez. The project will save a lot of money by going to Valdez.



2	Stakeholder Issue - FERC Scoping Comment	We support the project. The state needs this project to go forward.
3	Stakeholder Issue - FERC Scoping Comment	An alternative solution could be shipping the LNG from West Dock on the North Slope directly to Asia, then building an ASAP-sized line to Fairbanks.
4	Stakeholder Issue - FERC Scoping Comment	This project is not good for the Denali region. The seven year horizon of construction would put a big hindrance on the tourism industry in Denali. The pipeline can provide more opportunities for tourism; people come to Alaska to see the pipeline.
5	Stakeholder Issue - FERC Scoping Comment	There are two large potential mining projects on the west side of Cook Inlet that could use the gas from this line.
6	Stakeholder Issue - FERC Scoping Comment	The number of jobs that the project would create is impressive.
7	Stakeholder Issue - FERC Scoping Comment	The project should look into the erosion issues that could occur during construction.
8	Stakeholder Issue - FERC Scoping Comment	There is concern for impact to beluga whale habitat. There is a concern about the beluga whale critical habitat being impacted. The federal government has failed in protecting endangered species in Cook Inlet.
9	Stakeholder Issue - FERC Scoping Comment	How would the project respond to a volcano eruption? Concern for volcanoes near Beluga impacting the project. The current proposed route crosses too many fault lines.
10	Stakeholder Issue - FERC Scoping Comment	The Valdez route can provide Fairbanks with natural gas and help them fix their air quality issue. Air quality in Fairbanks is a health concern.
11	Stakeholder Issue - FERC Scoping Comment	The project should look into the maritime navigational risk of shipping LNG.
12	Stakeholder Issue - FERC Scoping Comment	How would a tanker spill in Cook Inlet impact the endangered species? The EIS should require standards for methane leakage.
13	Stakeholder Issue - FERC Scoping Comment	The project should look into lessening its carbon footprint. The climate change impact should be taken into consideration in the study. How would the emissions of the tankers and loading facility impact the water in Cook Inlet?
14	Stakeholder Issue	How is the project progressing on the design? Is AGDC getting more support than the ASAP Project? What is new since the last presentation in Nikiski?
15	Stakeholder Issue	Where are the liquids stripped from the gas? Is there a lot of liquid in the gas? What would happen to the liquid?
16	Stakeholder Issue	Where would the LNG facility be located in Nikiski? How big are the tanks in Nikiski going to be? Could the project save money if AGDC took over the LNG facility and renovated facilities already in the area?
17	Stakeholder Issue	We would prefer the project follow the TAPS corridor and send the LNG out of Valdez. The choice of Nikiski was purely political.
18	Stakeholder Issue	Where does the pipeline cross TAPS? Does it cross over the top and how?
19	Stakeholder Issue	Questions regarding the routing and location of the pipeline crossing Cook Inlet. Would the easterly or westerly route affect land status near Nikiski?
20	Stakeholder Issue	Questions regarding the routing and location of the pipeline in the Denali National Park area. I am concerned about the current proposed route which suggests going through Denali National Park at Nenana Canyon. I am concerned about potential impacts to the Glitter Gulch area. I would like the Intertie shown in better detail on the maps.
21	Stakeholder Issue	How soon will the gravel sites be determined?
22	Stakeholder Issue	What is the estimated longevity of the gas supply?
23	Stakeholder Issue	Is an access road planned on Ahnna land? Would the access road be a private road?
24	Stakeholder Issue	Would there be five off-take points? Why not build a small line to Fairbanks and send the rest out to the Bering Sea?
25	Stakeholder Issue	How much acreage does each off-take point require? Would an off-take point require a right of way?
26	Stakeholder Issue	How is the soil in Nikiski? What were the machines I saw drilling holes?
27	Stakeholder Issue	How can I see the preferred route maps online? Is there an office I can visit to see these map books again later? Note that pages 117 and 118 in map book are transposed. Would residents be able to give input on which route near Nikiski is chosen? Does the project have exp's details available?

28	Stakeholder Issue	Has Ahtna been contacted?
29	Stakeholder Issue	Are studies on the heat-affected zones being done? I am concerned they will write off frequencies as anomalies. What is the carbon footprint of the whole project? What is the amount of power consumption at the GTP and LNG facility? The project should look into CB&I Power for carbon dioxide turbine generators, and should capture as much carbon dioxide as possible on the North Slope. Has the project looked at combustion turbines for the North Slope?

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	November 19, 2015
Sub-Project Name		Location	Dena'ina Civic and Convention Center, 600 W 7th Ave, Anchorage, AK 99501
Meeting Subject	Presentation at Resource Development Council Annual Conference		

ATTENDEES			
Name	Organization	Name	Organization
Karen Wuestenfeld	Alaska LNG Project	Steve Butt	Alaska LNG Project
Michael Britton	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Scoping Comment(s) to FERC	<b>Date of Meeting</b>	December 3, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Scoping Comment to FERC		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Fred Miller	Nikiski Community Council		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Fundamentally our concerns are that the development of the Alaska LNG project within the North Peninsula Community Council (NPCC) area needs to meet the goals of the Kenai Peninsula Borough (KPB) long range community/economic development plan. The long term interests of the residents of the Kenai Peninsula are best served through the development of a 25 year community/economic development plan as the scope of this project has generational impact and requires greater foresight than what the current long rang community/economic development plan will address. Originally developed by the NPCC in 2001 and revised in 2012 the Community Action Plan set goals for the unincorporated North Kenai Peninsula area. These goals were used in the Borough's 10-year community/economic development plan. NPCC is concerned that as an unincorporated area without a formal governing body other than the Kenai Peninsula Borough, decisions concerning the development of the Alaska LNG Project by the KPB and/or the State of Alaska will be made without the guidance of a 25-year plan.
2	Stakeholder Issue	The highway relocation must include an assessment of the current growth trends of the North Kenai area as well as expected impacts by the Alaska LNG Project. Evidence suggests that recent growth has been along the Holt Lamplight/Miller Loop corridor in close vicinity to the North Star Elementary school. The historical "City Center" of Nikiski, in vicinity of the Post Office, shopping mall and gas station, has recently experienced more commercial growth than residential growth. The highway relocation has the potential to further fragment our community or provide an avenue to improve it. Decisions on potential highway relocation options should take into consideration the community growth projections of the KPB 25-year community/economic development plan, especially in light of where the additional residential construction is expected to occur in order to support the construction and operational periods of the project.
3	Stakeholder Issue	Water quality and quantity is vitally important. The community must be assured that during and after construction continual access to clean drinking water is neither restricted nor negatively impacted.
4	Stakeholder Issue	Waste during all phases of the Alaska LNG project must be handled according to federal, state, and borough guidelines and that a long term solution for continual waste disposal be included in the KPB 25-year community/economic development plan. We ask that any resources, as defined by the Division of Subsistence, be offered to the community. We are a rural community and many of our members annually harvest Alaska's resources, including timber, to be used as fuel for the winter heating season.
5	Stakeholder Issue	The McGahan Industrial Airpark, located in Nikiski, has the potential to handle increased air traffic connected to growth in the area. Although it is a privately held airfield, any impact of increased air traffic to the Kenai airport could be mitigated with the development of this resource and would be a long-term benefit to all residents and businesses of the North Kenai Peninsula.

6	Stakeholder Issue	The North Peninsula is a unique rural area which supports our recreational needs through Service Area property taxes and fees. The current level of services or the capacity to become a recreational area for an increased number of visitors will require additional resources that should be addressed in the KPB 25-year community/economic development plan. Current access to Cook Inlet beaches, restricted or eliminated during construction, must be replaced with equivalent access for the uninterrupted recreational use of our popular beaches.
7	Stakeholder Issue	An increase in population and residential and commercial growth during the construction and operational periods of the project will impact the current fire, police and other emergency services. In order to adequately prepare for this impact, the KPB 25-year community/economic development plan should provide the appropriate analysis to enable the KPB to provide adequate services for the North Peninsula residents.
8	Stakeholder Issue	Public beach access for the purpose of commercial, personal-use and subsistence fishing must be maintained during the construction and operational periods of the project. The Cook Inlet beach area in the proposed Alaska LNG corridor has historically been used for commercial, personal-use and subsistence fishing. It is important that this resource, which many Nikiski families use not only for food but as a traditional source of income, be respected. Note that Commercial fishing has not been interrupted in the past by oil and gas production in Cook Inlet.

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	December 5, 2015
<b>Sub-Project Name</b>	Integrated (All Segments), LNG Plant, Marine Terminal, Domestic gas offtakes	<b>Location</b>	Homer, AK
<b>Meeting Subject</b>	Project Overview at Cook Inletkeeper Board Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Bob Shavelson	Cook Inletkeeper	Claire Joseph	Alaska LNG Project
Chris Rose	Renewable Energy Alaska Project	Josselyn OConnor	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Recent News Articles related to Cook Inletkeeper	<a href="http://homernews.com/homer-opinion/point-of-view/2015-12-03/cook-inletkeeper-celebrates-20-years-of-accomplishments">http://homernews.com/homer-opinion/point-of-view/2015-12-03/cook-inletkeeper-celebrates-20-years-of-accomplishments</a> <a href="http://www.adn.com/article/20151124/were-not-bad-using-fossil-fuels-climate-change-requires-we-change">http://www.adn.com/article/20151124/were-not-bad-using-fossil-fuels-climate-change-requires-we-change</a>
2	Stakeholder Action Item	Get back to Bob Shavelson about potential Clean Water Act discharge permits for the LNG facility.
3	Stakeholder Issue	Attendee asked what Clean Water Act discharges the project would seek permits for at the LNG facility.
4	Stakeholder Issue	Attendee asked whether Alaska LNG's 2016 budget had been approved by the partners.
5	Stakeholder Issue	Attendee was concerned other projects globally for ExxonMobil would compete with the Alaska LNG Project. Attendee expressed concern for ExxonMobil being the lead partner.
6	Stakeholder Issue	An audience member asked about the pipeline routing crossing the upper Cook Inlet.
7	Stakeholder Issue	Participant said he had concerns about the manner in which the Alaska LNG representatives and the State of Alaska are representing the state gas off-takes. He said he assumed that the cost of the domestic gas would be calculated based on what it takes to produce it and liquefy it.
8	Stakeholder Issue	Participant suggested that project profits/proceeds be directed towards sustainable development in Alaska.
9	Stakeholder Issue	One audience member stated he witnessed a "bust" after the "boom" of the Trans-Alaska Pipeline System (TAPS) construction, and asked what Alaska LNG was doing to mitigate the "bust." Another audience member stated on her concerns about the same subject and more specifically, how she thought there would be numerous jobs for a few years, and then a significant reduction in project-related jobs.
10	Stakeholder Issue	One audience member said Alaska LNG's estimated 9,000-15,000 construction workers (and potentially families) would not pay income taxes, but would be a burden to the emergency and community services. The community member also asked about Payments in Lieu of Taxes (PILT) negotiations.
11	Stakeholder Issue	How is Alaska LNG addressing climate change?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	December 7, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Update NCC on Alaska LNG Project - FERC scoping meetings, upcoming meetings, safety around LNG plant, water quality		

## ATTENDEES

Name	Organization	Name	Organization
Fred Miller	Nikiski Community Council	Mike Chenault (Juneau Address)	House of Representatives
Josselyn O'Connor	Alaska LNG Project	Peter Micciche (Juneau)	Alaska State Senate
Loretta Kenton		Wilma Hampson	

## DISTRIBUTION

Name	Organization	Name	Organization


## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Discussion	<p>Nikiski Community Council – 12/7/15 Meeting Notes 22 in attendance Notable attendees include: Representative Mike Chenault, Senator Peter Micciche, Wayne Oagle (KPB assembly member) AK LNG: Josselyn O'Connor Please see attached agenda. Old Business 1 – NCC has written a letter to the Kenai Peninsula Borough mayor encouraging the Borough to explore the options of partnering with AK LNG on ground water studies. NCC has \$9,876 left in a grant to continue groundwater studies. The previous study is on the Borough's website. Old Business 4b – Larry Persily was not in attendance, but Josselyn O'Connor reminded the group that Larry and the KPB are holding another meeting on Thursday, Dec. 10 at 6:30 at the Nikiski Rec Center. Old Business 4c – Josselyn O'Connor presented the following Alaska LNG items: • 2016 budget and work plan was approved • FERC scoping closed on Dec. 4th – they will continue to accept comments, the project will answer those concerns/comments soon • Explained the FERC process, 2nd draft of resource reports, timing of the final resource reports, issue of EIS and public input • AK LNG is planning a public meeting in Nikiski in early January to review the regulatory process • AK LNG is planning a public meeting 1Q2016 – will include lots of information • AK LNG is looking forward to working with the schools in 2016 Questions asked: Is what the media says about ExxonMobil's involvement true? Are they holding up this project? Mike Chenault answered that we need to plan for success. Micciche answered that we must have ExxonMobil involved or this project will not happen. Josselyn O'Connor explained that as a project team member her experience is that ExxonMobil is very much committed to this project. She explained examples: direct ExxonMobil employees dedicated to this project, level of capital/resource invested, acting as lead entity, and energy of the project team. Will the Alaska LNG project have a military presence? Josselyn answered that the project takes very seriously safety and security issues across the entire length of this project and it will continue to be a top priority as we move forward. New Business 6 – NCC committee was asked to draft FERC comments, met 2X, drafted and submitted comments on behalf of the Nikiski Community Council. Comments were distributed. Many offered appreciation to the committee for taking this on. Prior to the meeting in a private discussion: Bill Hartline asked Josselyn about the status of old building materials. Josselyn explained the liability issues around a property once Alaska LNG has taken ownership. He mentioned he might contact one land owner and see if he can work something out prior to selling to Alaska LNG. Following the meeting in a private discussion: Wilma Hampson (owner of the building with the video store and post office) inquired about status of the Kenai Spur Highway relocation. Josselyn offered to bring her the fact sheet. Josselyn explained that the options are out for comment and no decision has been made and explained the schedule. Following the meeting in a private discussion: Loretta (last name?) asked if we had a plan for the environmental organizations that will show up and try to derail this project. She thought the community needs to be ready to take them on too. Josselyn explained that the project is aware that we might encounter organizations that don't like the idea of this project.</p>
2	Stakeholder Issue	An attendee inquired about status of the Kenai Spur Highway relocation.

3	Stakeholder Issue	Is ExxonMobil holding up this project?
4	Stakeholder Issue	Participant asked Alaska LNG about old building materials on project-purchased properties.
5	Stakeholder Issue	The Nikiski Community Council has written a letter to the Kenai Peninsula Borough (KPB) mayor encouraging the KPB to explore the options of partnering with Alaska LNG on ground water studies.
6	Stakeholder Issue	Attendee asked Alaska LNG if there is a plan for the environmental organizations who may oppose the project, and thought the community needs to be ready for them.
7	Stakeholder Issue	Will the Alaska LNG Project have a military presence?

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Letter	Date of Meeting	December 16, 2015
Sub-Project Name		Location	Nenana, AK 99760
Meeting Subject	Pattie Trocki on behalf of FERC through Karen Wuestenfeld requested the 1st draft Resource Reports and current project alignment sheets be sent to Tribal Governments. The individuals were able to receive the privileged and confidential cultural resources		

ATTENDEES			
Name	Organization	Name	Organization
Karen Wuestenfeld	Alaska LNG Project	Patty Murphy	E3 Environmental
Patti Trocki	ERM	Rosetta Alcantra	E3 Environmental

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
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	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	December 10, 2015
Sub-Project Name	LNG Plant, Marine Terminal	Location	Soldotna, AK 99669
Meeting Subject	Kenai Peninsula water resource specialists and studies		

ATTENDEES			
Name	Organization	Name	Organization
Billy Oliver	Alaska LNG Project	Josselyn OConnor	Alaska LNG Project
Claire Joseph	Alaska LNG Project	Robert Ruffner	Kenai Watershed Forum

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
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1		<p>Josselyn arranged for the meeting with Robert Ruffner, the outgoing (retiring) Executive Director of the Kenai Watershed Forum to get his thoughts on water resources experts and reports and/or references for Nikiski and greater Kenai Peninsula. Robert had a number of suggestions of people that the Project could contact regarding water resources: • Jim Munter, a former DNR hydrologist based in Anchorage familiar with Kenai / Nikiski area, and is now a consultant involved in the Kalifornsky Beach groundwater task force (regarding recent K-Beach flooding phenomenon). • Melissa Hill, ADNR PhD hydrologist who recently invited Kenai Watershed Forum to partner on a multi-stakeholder regional groundwater study sponsored by with funding from USGS • David Nyman, an Anchorage-based consultant with Restoration Science &amp; Engineering (David Nyman contact details: nymo@alaska.net) who prepared a broad groundwater report which included cross-sectional profiles of the area • Keith Riddle working for Tri-Hydro and consulting for Chevron in site remediation work in Nikiski • Mike Swann, of Swann Surveyors located in Sterling, who worked on the 1990s Kenia Soil and Water Conservation District (KSWCD) report. • Dick Reger – retired geologist familiar with the geology of Nikiski • Geoff Coble of Coble Geophysical Service – of Homer, area/regional report which Project is aware of and has accessed Robert mentioned AIMM, the most recent study by KPB: The Kenai Peninsula Borough contracted with a private firm for the groundwater modeling study which surveyed well locations, static water levels and more than 60 wells in the area of land between the McGahan Industrial Park, the AIMM Monofill site, the Cook Inlet and the east property line of Nikiski High School. Community discussion over potential groundwater contaminants in the area was rekindled when Texas-based AIMM Technologies proposed, and ultimately built, a waste disposal site on a 1.5 acre plot that will store up to 10 million gallons of petroleum waste at the end of Halliburton Drive. <a href="http://peninsulaclarion.com/news/2015-03-09/results-of-nikiski-groundwater-study-to-be-released">http://peninsulaclarion.com/news/2015-03-09/results-of-nikiski-groundwater-study-to-be-released</a> In addition, Robert mentioned that there was a regional groundwater report prepared by the State (a groundwater task force) in the 1990s, and that Heidi [fill in last name here] and/or KSWCD might have a copy of the report. The group discussed how the LNG Plant industrial process itself is not unusually or extremely water-intensive, and that the Project will have highest water needs during construction. The Project team is also interested in water quality with respect to design of the water purification systems needed for the water needed for processing activities. Robert said that from his perspective, he is much more interested in the water quantity questions than water quality, due to the variability in geology and hydrology in the area. Billy Oliver explained that the Project has observed the significant variability throughout the study area. Billy asked if Robert had any suggestions with respect to study design or methods, and Robert suggested contacting the folks mentioned earlier. Robert said that the main concerns that he's aware of with respect to water quality are arsenic, iron, and zinc, and that the water quality also varies significantly throughout the Nikiski area both spatially and temporally – nearby wells at the same elevation may show significantly different water quality, and the quality in the same well can vary significantly from year to year. Robert said that the KWF has received approximately half a dozen calls related to Alaska LNG Project. He said that in his capacity on the Kenai Peninsula Borough Planning Commission, there have been questions related to gravel pits / gravel needs in the vicinity of the proposed LNG Plant at Nikiski. There may be an increase in speculative development of gravel pits. The subject is challenging for the Planning Commission, because there are not strong zoning requirements or regulations related to gravel mine development. Josselyn and Robert discussed the opportunity for Larry Persily and/or Alaska LNG representatives to present to the Planning Commission more information about the Project. Robert suggested that Alaska LNG reps initiate introductions with Jack Sinclair, the incoming Executive Director of the Kenai Watershed Forum and who was the former head of the State Parks.</p>
2	Stakeholder Issue	The group discussed how the LNG facility industrial process is not unusually or extremely water-intensive, and that the project will have highest water needs during construction.
3	Stakeholder Issue	It may be helpful for Alaska LNG to talk with the Kenai Peninsula Borough Planning Commission about potential gravel needs.
4	Stakeholder Issue	The Kenai Watershed Forum has received approximately half a dozen calls related to Alaska LNG Project. The outgoing director of the Kenai Watershed Forum gave Alaska LNG a list of potential contacts and reports for water resources.
5	Stakeholder Issue	The Kenai Peninsula Borough Planning Commission has had questions related to gravel pits/gravel needs in the vicinity of the proposed LNG facility at Nikiski. There may be an increase in speculative development of gravel pits. The subject is challenging for the Planning Commission because there are not strong zoning requirements or regulations related to gravel mine development.
6	Stakeholder Issue	Participant was much more interested in the water quantity questions than water quality questions due to the variability in geology and hydrology in the area.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	November 17, 2015
<b>Sub-Project Name</b>		<b>Location</b>	Healy, AK
<b>Meeting Subject</b>	FERC Public Scoping Meeting - Healy		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andrea Thornton	Natural Resources Group (NRG)	Lauren Haskins	
David Sinclair	Paragon Partners Ltd	Luke Marodi	Alaska LNG Project
Elena Antonakos	Alaska LNG Project	Maggie Suter	Federal Energy Regulatory Commission (FERC)
Eva Welch	AECOM	Mark Jennings	Alaska LNG Project
Jared Zimmerman	Denali Borough Assembly	Missy Somers	
Jennifer Lee	Natural Resources Group (NRG)	Rob Burros	
Jerryne Cole		Vicki Nelson	
Kimber Burrows			

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Action Item	Add participants to the mailing list.
2	Stakeholder Action Item	Email Jerryne Cole for more email addresses to add to the mailing list.
3	Stakeholder Action Item	Verify route in relation to land owned by Janet Powers. Q4 2015.
4	Stakeholder Action Item	Mr. Hinman said he has 40 acres around Milepost 515 of the pipeline that could be used for staging. Send this information to Dave Sinclair, Luke Marodi, Jay Moylan, and Ross Sorenson.
5	Stakeholder Issue	What does MLBV mean? Will the project add sand if needed? Questions regarding the operating and maximum pressure of the mainline. Is the pipeline buried through Atigun Pass? How deep would the pipeline be buried? What are heater stations?
6	Stakeholder Issue	Would Cook Inlet need to be dredged? Would the ships be bigger than ones currently coming out of Nikiski?
7	Stakeholder Issue	Who funds the pipeline and will the federal government contribute any money?
8	Stakeholder Issue	A resident said he has 40 acres around Milepost 515 of the pipeline that can be used for staging. Alaska LNG has his contact information.
9	Stakeholder Issue	Attendee wanted to see the laydown yard locations. How far apart are the access roads? We heard they would be every quarter mile.

10	Stakeholder Issue	Where is the route in relation to Denali National Park? Feedback was mixed; many understood the benefits of a Denali National Park route but were concerned about how the alternate route through Denali National Park may impact their land near McKinley Village. Does the Parks Highway run through part of Denali National Park? Why does the project not follow the Denali National Park road? Discussions on construction in the Nenana canyon area where the pipeline runs right next to the road. One resident commented that the state was blasting to move the rock back away from the highway. Janet Powers discussed previous route maps that showed the pipeline going under Jim Creek and through her driveway. The map book now shows that the route is on the other side of the highway and not on her land; she said ASAP drilled on her land. Run the pipeline through Denali National Park; there is lots of room in there. What is the project doing around McKinley Village? Where would the access road be located? The railroad is in the middle of everything the project would do in the Denali National Park area.
11	Stakeholder Issue	How long would construction last? Attendees stated that they do not want construction during tourist season.
12	Stakeholder Issue	Why does the project not use the railroad right of way? How wide is the pipeline right of way, adjacent to the Park Highway right of way, when going through the Nenana canyon? Would the project need a 180 foot wide right of way at that location [Nenana Canyon]? Would the project right of way overlap or be adjacent to the Intertie?
13	Stakeholder Issue	Who decides on off-takes?
14	Stakeholder Issue	Did Alaska LNG do the GeoTech data (borings) in the area?
15	Stakeholder Issue	There was a discussion on local hire during the Healy FERC Q&A.
16	Stakeholder Issue	ADOT&PF has gravel pits that could be used for this project. (In reference to the gravel pit at Milepost 522 of the pipeline.)
17	Stakeholder Issue	What will happen if the pipe ruptures? Would the project regularly go along the entire route and inspect the pipeline?
18	Stakeholder Issue	Does the project reclaim the land used for access roads?
19	Stakeholder Issue	How does the heater station noise compare to compressor station noise? How much noise do compressor stations make? Citizens are concerned about noise pollution.
20	Stakeholder Issue	We [in the Healy area] are concerned with the impact on land used for local recreation. An owner of a local horse riding tour company stated that she believes the pipeline will harm her business because she gives trail rides in the area.
21	Stakeholder Issue - FERC Scoping Comment	Would the temporary access roads be reclaimed? What would happen to the project infrastructure upon closure?
22	Stakeholder Issue - FERC Scoping Comment	How big would the LNG tankers be coming into the marine terminal?
23	Stakeholder Issue - FERC Scoping Comment	How far apart would the construction access roads be and where would they be located?
24	Stakeholder Issue - FERC Scoping Comment	The tourism economy in the Denali Borough should be protected. Concern for tourism industry with proposed route through Nenana Canyon. Disruptions during construction should be assessed. How would the project impact tourism and businesses in Greater Denali area?
25	Stakeholder Issue - FERC Scoping Comment	Would there be public access to the pipeline corridor? Would there be access to construction roads?
26	Stakeholder Issue - FERC Scoping Comment	Healy is interested in year-round jobs with the project, such as at pump stations.
27	Stakeholder Issue - FERC Scoping Comment	What mitigation is there for fish habitat potentially impacted by increased marine traffic in the Nikiski area?
28	Stakeholder Issue - FERC Scoping Comment	Our local government is limited in the Denali Borough, and our small communities have limited ability to take advantage of project impact data and potential changes to the economy.
29	Stakeholder Issue - FERC Scoping Comment	Please fully consider all the socioeconomic impacts the project could have on Healy, especially during the construction boom. Attendee brought concern for the project hindering future development in the Denali Borough with in-progress title exchange for state/borough selected lands.
30	Stakeholder Issue - FERC Scoping Comment	The corridor passes the boundary of Gates of the Arctic National Park and Denali National Park, which are designated as wilderness. The project should consider the impact it may have on the wilderness character, including viewshed changes and noise levels.

31	Stakeholder Issue - FERC Scoping Comment	What is the carbon footprint for this project? I would like to see climate change impacts considered in the EIS. Is the project aware of the executive order and draft guidance for agencies to consider climate change and greenhouse gases?
32	Stakeholder Issue - FERC Scoping Comment	Would there be dredging in Cook Inlet? If there is dredging, what kind of impacts could there be?
33	Stakeholder Issue - FERC Scoping Comment	Considers impacts to noise levels and viewsheds. Concern raised for noise from compressor stations.
34	Stakeholder Issue - FERC Scoping Comment	Concern for potential impacts to recreational wilderness used by local residents. Concern for impacts to recreation from construction access roads.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	November 2, 2015
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Monthly meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Fred Miller	Nikiski Community Council	Larry Persily	Kenai Peninsula Borough (KPB)
Josselyn OConnor	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Meeting Notes and Discussion	28-30 in attendance ADF&G presented findings from Subsistence Survey in the Nikiski area. They stated Alaska LNG helped pay for the survey. Fred Braun - stated to the group that Alaska LNG has a job to do. The community needs to be respectful to the Project reps at future community meetings. KSH Meeting feedback - too many options shown, 5 lanes needed, think the Project already knows the route Larry Persily (KPB) - hosting two meetings in Nikiski to connect directly with the community. Larry also handed out two maps prepared by the Borough (1:KSH options, 1: LNG facility in detail)
2	Stakeholder Issue	There were too many options shown for the Kenai Spur Highway Relocation. Attendee stated five lanes are needed. Attendee stated he thinks the project already knows the finalized route.
3	Stakeholder Issue	Participant stated to the group that Alaska LNG has a job to do and the community needs to be respectful to the project representatives at future community meetings.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	February 3, 2016
<b>Sub-Project Name</b>	Gas Pipeline	<b>Location</b>	E3 Environmental, LLC - 219 E International Airport Rd, Anchorage, AK 99518
<b>Meeting Subject</b>	In person meeting with representatives of the Knik Tribe		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Bob Charles	Knik Tribe	Patty Murphy	E3 Environmental
Debra Call	Cook Inlet Tribal Council (CITC)	Richard Button	Eggor Enterprises
Mark Jennings	Alaska LNG Project	Richard Martin	Knik Tribal Council
Matthew Schmitt	Knik Tribal Council	Richard Porter	Knik Tribe
Michael Nelson	Alaska LNG Project	Rosetta Alcantra	E3 Environmental

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
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1	Project update presented to representatives of the Knik Tribe	<p>On Wednesday February 3, 2016, representatives of Alaska LNG met with representatives of the Knik Tribe and affiliate organizations. The meeting took place at the offices of E3 Environmental, LLC in Anchorage. Rosetta Alcantra introduced the meeting participants. Michael Nelson provided a brief project update, discussed the status of FERC Resource Reports as well as some information about upcoming field work in 2016. Bob Charles discussed the current Alaska LNG western pipeline route, talked about its potential impacts to wetlands and cultural resources, and displayed a digital map showing the Alaska LNG pipeline route overlaid on wetlands as well as known and potential cultural resource sites. Mr. Charles also presented new alignment options prepared by Knik that may reduce impacts to wetlands and cultural resource sites, yet still routes the pipeline to Beluga before crossing Cook Inlet. Mr. Charles suggested that Alaska LNG pipeline engineers study the proposed alignment options to see if they are feasible. Mr. Charles indicated that he will provide Alaska LNG with the digital files necessary to evaluate the Knik options. A hardcopy paper map was provided as well. Mr. Charles showed aerial photos of the old Beluga Pipeline route and the ground scaring that is still evident through wetlands. He asks that we try to avoid a similar outcome with the Alaska LNG pipeline. Richard Martin spoke about the richness and diversity of cultural resources scattered throughout the Susitna Valley. Some studies and mapping have been completed over the years but many areas, particularly west of the Susitna River, have yet to be field surveyed and documented. He indicated that a more eastern pipeline route similar to ASAP would likely impact fewer cultural resources and wetlands. Specifically he said the Deshka River and at the mouth of the Susitna River are areas containing dense clusters of cultural resources. Mr. Martin asked that the Project more closely coordinate with the Knik Tribe about the upcoming cultural resource surveys throughout the Susitna Valley. Richard Button spoke about Bente EEIS, an engineering affiliate of the Knik Tribe. The firm offers multidisciplinary engineering and design services with experience in the oil and gas industry. Richard Porter indicated that Knik is looking for opportunities to do business with and provide services to the Alaska LNG Project. Mark Jennings mentioned the upcoming business information sessions later this spring and encouraged Bente EEIS to attend and make professional contacts. Mr. Jennings also indicated that he would forward Mr. Porter's contact information to the Project's contracting and procurement team. Mr. Jennings mentioned the cultural resource observer program that took place in 2015 and indicated that if the program continues in 2016, he will recommend that the Project contact the Knik Tribe about an observer position. Debra Call indicated that perhaps a member of the Native Village of Tyonek should be considered for an observer position as well. The meeting was adjourned.</p>
2	Stakeholder Issue	Are there alternative routes for the ASAP Pipeline? Has the project talked to anyone from the pipeline team about the alternative route proposed by the tribe?
3	Stakeholder Issue	Knik Tribal Council could provide the project with the GIS data points for the tribe's alternative route.
4	Stakeholder Issue	There is so much about the cultural sites that is not understood. Does the project really want to go in and disturb these poorly understood areas when there are known viable alternatives that have extremely low impact on the environment. The Dena'ina people have burial grounds along the creeks where the project wants to build, and it's very hard to discern the locations.
5	Stakeholder Issue	Nobody has ever approached the tribe to ask "What is your interpretation? Do you want to help?"
6	Stakeholder Issue	The Knik Tribe has archaeological capabilities to do cultural resource surveys along the affected area. The tribe is familiar with the oil and gas industry and now has process and instrumentation personal. We offer engineering services and the project only gets billed for the work completed. A project manager would be assigned to the project, but you would not be billed unless he was working on the project. We have 30-40 years of experience in Anchorage, North Slope, and western Alaska. Does the project have a company that does project procurement? Does the project have a cultural resources person from Tyonek? We have not only knowledge, but the skills that would allow for a partnership. Another capability we are competitive with is field crews and vehicles at lower or equal pricing. Knik Tribal Council will send you, and/or your procurement team, information about our company.
7	Stakeholder Issue	The Knik Tribe has archaeological capabilities to do cultural resource surveys along the affected area. The tribe is familiar with the oil and gas industry and now has process and instrumentation personal. We offer engineering services and the project only gets billed for the work completed. A project manager would be assigned to the project, but you would not be billed unless he was working on the project. We have 30-40 years of experience in Anchorage, North Slope, and western Alaska. Does the project have a company that does project procurement? Does the project have a cultural resources person from Tyonek? We have not only knowledge, but the skills that would allow for a partnership. Another capability we are competitive with is field crews and vehicles at lower or equal pricing. Knik Tribal Council will send you, and/or your procurement team, information about our company.

8	Stakeholder Issue	Knik Tribal Council is asking the project to present the impact of the Beluga pipeline route to the team as a measuring tool against the proposed alignment of the upper Susitna River. For the Beluga to Anchorage pipeline there are large stretches of wetland bog vegetation with 18-foot wide water-filled trenches on the Susitna flats that have not been able to recover after 30+ years. The pipeline has also left exposed blocked valves in water-filled areas. When you look at the Susitna valley, all the wetlands are to the west, it would be easier to route the pipeline through dry areas on the east. It is uncertain how long vegetation would take to grow back from the effects of building a pipeline through the wetlands.
9	Stakeholder Issue	The Alaska LNG pipeline will affect a lot of cultural aspects, e.g. Beluga through under Cook Inlet. A few concerns we have are connected to the cultural resources, as mentioned, people need food, dry land, water, and transportation. Cultural sites have been identified long ago, are great for Knik conservation district's concern with natural resources.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	February 8, 2016
Sub-Project Name	Integrated (All Segments)	Location	Kenai, AK
Meeting Subject	Discuss Alaska LNG Project Business Opportunities		

ATTENDEES			
Name	Organization	Name	Organization
Jay Moylan	Alaska LNG Project	Ross Sorensen	Alaska LNG Project
Kim Fox	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	February 9, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Juneau, AK
<b>Meeting Subject</b>	Alaska LNG Project Overview		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Claire Joseph	Alaska LNG Project	Kevin Jardell	Kevin Jardell & Associates

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Summary	Representative Sam Kito III, who is involved in the Alaska Professional Design Council, requested the presentation. We presented a Project overview to approximately 25-30 technical professionals (engineers, architects, etc.) in Juneau over lunch during their "legislative fly-in." The audience was supportive of the Project and had technical questions that included topics such as: - is there H2S in the gas? What will be done with the H2S and CO2? - what is the operating pressure of the gas? - how was the Nikiski site selected - what are the most challenging regulatory issues faced? - what is the plan for in-state gas delivery Participants were provided a copy of the presentation and it was suggested that they look online for further Project information as well as to register their business or organization for future communications.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	February 9, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Juneau, AK
<b>Meeting Subject</b>	Brief ANCSA members on Alaska LNG Project		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andrew Guy	Calista Corporation	Michelle Anderson (Anchorage Office)	Ahtna Inc.
Anthony Mallott	Sealaska Corporation	Miles Baker	Alaska Gas Development Corporation (AGDC)
Elizabeth Perry	Koniag, Inc.	Paul Quesnel	BP Exploration Alaska
Gabe Kompkoff	Chugach Alaska	Ross Sorensen	Alaska LNG Project
Gail Schubert	Bering Straits Native Corporation	Sarah Obein	Doyon Limited
Hans Neidig	ExxonMobil	Sophie Minich	Cook Inlet Region Incorporated (CIRI)
Jay Moylan	Alaska LNG Project	Tara Sweeney	Doyon Limited
Kathy Mayo	Kathy Mayo & Associates	Thomas Mack	Aleut Corporation
Kim Fox	Alaska LNG Project	Wayne Westlake	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	February 10, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Dena'ina Civic and Convention Center, 600 W 7th Ave, Anchorage, AK 99501
<b>Meeting Subject</b>	Project Update at the 2016 Alaska Forum on the Environment		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Erika Herlugson	Alaska LNG Project	Jeff Raun	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Jeff Raun	Alaska LNG Project		

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Questions and Comments Offered by AFE Participants	Participants attending the AKLNG Project update at Alaska Forum on the Environment asked questions and offered comments after project team members offered a project update. Questions and comments covered topics including: cumulative and indirect impacts; greenhouse gases; how to engage in the FERC process; land access; terrestrial, marine mammal, and fish issues; commercial interests; local content.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	February 15, 2016
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Nikiski, AK
Meeting Subject	Update the Council on Alaska LNG Project		

ATTENDEES			
Name	Organization	Name	Organization
Fred Miller	Nikiski Community Council	Larry Persily	Kenai Peninsula Borough (KPB)
Heidi Hatch (Tri AK)	TRI Alaska LLC	Tim Colbath	
Janell Grenier		Wayne Ogle	Kenai Peninsula Borough Assembly
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Stakeholder Action Item	Sponsor a townhall meeting by Late March 2016

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	February 20, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Community dialogue in Kenai		

## ATTENDEES

Name	Organization	Name	Organization
Anna Johns		June Harris	
Barb Belluomini		Lydia Larson	Rikrland Valuation Services, LLC
Bill Stevens		Mark Jennings	Alaska LNG Project
Bill Warren		Mike Sheppard	
Chrystal Schoenrock		Natalia Aulenbacher	
Clint Hampson		Pat Porter	City of Kenai
Constance Nicks		Richard McGahan	
Dale Schmoll		Rick Koch	
Dena Tanner		Rodney Dukowitz	
Dennis Linnell	Hattensburg Dilley & Linnell	Sharon Brower	Grouchy Old Woman B&B
Don Roderick		Steven Bush	TRI Alaska LLC
Edwin Post	Swagelok NW-AK	Summer Parker	
Heidi Hatch (Tri AK)	TRI Alaska LLC	Tonya Halliday	
Jeff Raun	Alaska LNG Project	Trish Roderick	
Jim Butler		Veronica Post	
Jim Kaufman		Wayne Ogle	Kenai Peninsula Borough Assembly
Joe Harris		Wilfred Ronellenfitch	
Joseph Dukowitz		Wilma Hampson	
Josselyn OConnor	Alaska LNG Project		

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
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1	Media/Press	Peninsula Clarion: <a href="http://peninsulaclarion.com/news/2016-02-21/ak-lng-still-a-definite-maybe">http://peninsulaclarion.com/news/2016-02-21/ak-lng-still-a-definite-maybe</a> KSRM: <a href="http://www.radiokenai.us/ak-lng-project-groundwork-continues-without-delay/">http://www.radiokenai.us/ak-lng-project-groundwork-continues-without-delay/</a>
2	Stakeholder Action Item	Arrange to speak with the Kenai Young Professionals
3	Stakeholder Issue	The bypass for Nikiski is not big enough. The highway was planned many years ago, and now it is being turned into a 2-lane road that makes travel to Kenai 2.5 miles longer one way. The project should straighten out the road with one that will handle the traffic. For the road, 2-lanes is not enough, it needs to be at least a 5-lane from Kenai to (at least) Island Lake Road, and then disperse into a 2-4 lane road. Is the project coordinating with Tesoro to evaluate the impact of the new road?
4	Stakeholder Issue	How much money was allocated for the pre-FEED budget? If the economy fails, does the project have an exit strategy? How does the current economic climate of the oil and gas industry affect this project?
5	Stakeholder Issue	The project was going to have a definitive plant footprint in March, is it still on schedule?
6	Stakeholder Issue	Do all of the land acquisitions need to be complete before moving into FEED?
7	Stakeholder Issue	Do all of the land acquisitions need to be complete before moving into FEED?
8	Stakeholder Issue	What will the 2016 geophysical and geotechnical program look like? Is the geotechnical data proprietary?
9	Stakeholder Issue	Have you considered fostering the Kenai Young Professionals Group? In the studies, when does the project start the good neighbor aspect of the project? How many steps does the project have to complete to get through pre-FEED?
10	Stakeholder Issue	What is the project doing to employ/train Alaskans?
11	Stakeholder Issue	How many local firms are involved with the FEED process? Meeting participants request a written statement that says a certain percentage of jobs will be local hire vs. global hire, as companies in the recent past have either hired locally and then replaced them with global hire simply because they could do it cheaper, or skipped hiring local, because global hire is cheaper.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 8, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Beluga, AK
<b>Meeting Subject</b>	Stakeholder Engagement outreach to give local residents project information and listen to comments.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
David Kroto	Tyonek Native Corporation	Leo Barlow	Tyonek Native Corporation
Gloria Freeman	Three Mile Creek Services	Marilyn Barksdale	
Johanna Dreher	E3 Environmental	Oscar Evon	E3 Environmental
Judy Heilman	Chuitna Citizens Coalition	Robert Freeman	Three Mile Creek Services
Larry Heilman		Rosetta Alcantra	E3 Environmental

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Is the pipeline going to be staffed? What is the pressure in the line going to be? Will the pipe be buried in Cook Inlet? Will the construction road next to the underground pipeline be removed?
2	Stakeholder Issue	How big are the LNG ships? How is the gas stored in containers? How many gallons will the ships hold? Are there plans for several additional huge tugboats for Cook Inlet to escort these ships coming and going? Will the tugboats be able to work around our fishing season?
3	Stakeholder Issue	How will the pipeline cross rivers and streams (under or over)? We are concerned with erosion of stream banks. Where does the pipeline cross the Susitna River? The Beluga River is a dangerous river, with glacier ice dams forming that can break open causing flood damage. This occurs unpredictably.
4	Stakeholder Issue	Is this the final location for the pipeline? Do you have another map I can hang in my shop for the community to view? It needs to be a large map that can easily be viewed. Could I have maps from the project this spring?
5	Stakeholder Issue	I need a map that shows where the pipeline crosses the Beluga River. Is the pipeline, more or less, going to come down the Parks Highway?
6	Stakeholder Issue	How many communities are going to benefit from this pipeline? If going through a community, are they going to be able to tap into the pipeline and use gas instead of diesel?
7	Stakeholder Issue	What time of the year is the off shore work occurring? Is the seismic work going to include blasting? A couple years ago, they did a lot of seismic work on the other side of Cook Inlet, and you could hear the blast from the small air guns all the way over here. Then we had one not too long ago that left all the holes out there. The project did one that caused a fire at Three Mile.
8	Stakeholder Issue	What is a cultural study? Is there a contact person that deals specifically with cultural resource and historic property concerns?
9	Stakeholder Issue	Future meetings should not be on a Monday or Thursday due to fishing.
10	Stakeholder Issue	The pipeline is going over an earthquake fault which goes along the beach. What about earthquakes?

11	Stakeholder Issue	When companies did a lot of work for the coal company, they had helicopters going up and down the beach, which drastically affected the beluga whale. When the whales or fish are coming in, helicopter and boat activity will drastically affect them.
12	Stakeholder Issue	All it takes is one noise disturbance to affect the marine mammal activity. The year they used a helicopter, they had biologists counting whales. From April to October they only saw three whales. Usually when the fish are running, the whales are running, too. The whales returned last year, thankfully.
13	Stakeholder Issue	Is the pipeline safe to live near?
14	Stakeholder Action Item	Send copies of maps to Beluga.
15	Stakeholder Action Item	Consult Northern District Setnetters Association about fishing season timing.

**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	March 8, 2016
<b>Sub-Project Name</b>	LNG Plant, Gas Pipeline	<b>Location</b>	Tyonek, AK
<b>Meeting Subject</b>	Community meeting with the Native Village of Tyonek		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Aleksei Allowan		Katherine Chickalusion	
Arthur (Art) Standifer	Native Village of Tyonek	Larry Persily	Kenai Peninsula Borough (KPB)
Bill Standifer		Lecon Chuitt Jr	
Briahna Standifer		Lindsay J Bismark	
Cassandra Kroto		Marian King	
Corrine Bismark	Native Village of Tyonek	Norma Chicklaison	
Danovan Stephan		Oscar Evon	E3 Environmental
Dominique Standifer		Pedro Goozmer Jr.	
Gwen Chickalusion		Raymond McCord	
Harriet Kaufman	Tebughna Foundation	Rosetta Alcantra	E3 Environmental
Janelle Baker		Roy McCord	
Johanna Dreher	E3 Environmental	Tony McCord Sr	

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Will the pipeline be above or below ground? Will it cross under Cook Inlet? Will the pipeline be visible at low tide? We can see a pipeline at low tide below Tyonek. Is the pipe laying at the sea bed going to affect the current? If you look at the dock while above ground, it still affects current. How will the pipeline be buried in mountain areas? What is the estimate amount of natural gas on the North Slope? Will the gas be compressed inside the pipeline and what is the width of the pipeline?
2	Stakeholder Issue	Will there be 15-20 LNG ships per month? Will the LNG carriers go into Nikiski (where the facility is)? Will the LNG plant in Nikiski be located near the beach?
3	Stakeholder Issue	What is the projected life span of the pipeline? How long does the project expect the pipeline to last? What would be the maintenance schedule? We are concerned with study effects on our fishing schedule.
4	Stakeholder Issue	Where is the pipeline crossing Cook Inlet?
5	Stakeholder Issue	Will the gas be made available to communities along the project route?

6	Stakeholder Issue	Is the project doing studies on the current of Cook Inlet? Where were the surveys conducted in Cook Inlet?
7	Stakeholder Issue	Are archaeologists coming in before the digging or after? Is the project going to get archaeologists for historical sites? Are the archaeologists walking the historical areas?
8	Stakeholder Issue	Are you the village liaison or does the project have a village liaison?
9	Stakeholder Issue	Will there be any land reclamation work on the construction area?
10	Stakeholder Issue	I am concerned about earthquakes; there were water pipelines broken before from them. Are there earthquake studies being conducted?
11	Stakeholder Issue	We have a lot of marshy land. Is the project doing more environmental studies? The proposed route is over a lot of wetlands.
12	Stakeholder Issue	I am concerned about the seals, belugas and salmon in Cook Inlet. Are the waterfowl included in the project studies? If not, they should be included.
13	Stakeholder Issue	Was there a study on marine mammals and impact of the project on our subsistence needs? Were there any additional marine mammals sighted in addition to the number indicated on the presentation slide?
14	Stakeholder Issue	One of the things the project is going to have to look at in the area is invasive plant and fish species. There are invasive northern pike, and opening one lake to another could spread them. Beluga Lake has an over-population of pike.
15	Stakeholder Issue	The proposed area of pipeline crossing is a high vessel traffic area.
16	Stakeholder Issue	Is the project studying the effects of erosion in the rivers and beaches?
17	Stakeholder Issue	Are there contingency plans for pipeline emergencies? The studies should take into account the possibility of forest fires.
18	Stakeholder Action Item	Bring a pipeline engineer to address questions.

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

Meeting Type	Meeting/Workshop	Date of Meeting	March 10, 2016
Sub-Project Name		Location	Fairbanks, AK
Meeting Subject	Provide Project Overview		

## ATTENDEES

Name	Organization	Name	Organization
Carla Dick	Seth-De-Ya-Ah Corporation	Ken Charlie	Seth-De-Ya-Ah Corporation
Carlos Frank	Minto Development Corporation	Lisa Gray	Alaska LNG Project
Doug Isaacson	Minto Development Corporation	Patty Murphy	E3 Environmental
Jaclyn Silas	Minto Development Corporation		

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Issue	How long will the gas from the project last? What is H2S? Is any natural gas being sent out from North Slope now?
2	Stakeholder Issue	Would the Pt. Thomson gas line only provide 25 percent of the gas for the project? I thought the Pt. Thomson project had 25 trillion cubic feet of gas?
3	Stakeholder Issue	Would the sand wave oscillation in the Cook Inlet affect the pipeline? Is the property for the project secured?
4	Stakeholder Issue	Will the project go through Port MacKenzie? How long is the pipeline crossing of the Cook Inlet?
5	Stakeholder Issue	What is involved to develop and maintain the pipeline offtakes? How much will it cost to build an offtake?
6	Stakeholder Issue	How far away is the project willing to buy gravel from? If a company such as Seth Corporation develops a way to provide gravel at a competitive rate, would the project buy it?
7	Stakeholder Issue	Why is the project trying to stay out of Minto Flats? Is the project considering routing the pipeline through the Minto Management Area?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 10, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	Alaska LNG Project Overview		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Glenn Carlo	Baan O Yeel Kon Corporation	Patty Murphy	E3 Environmental
Lisa Gray	Alaska LNG Project	Rodney Evans	Baan O Yeel Kon Corporation
Mack Wiehl	Baan O Yeel Kon Corporation		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Is the pipeline going to allow for expansion?
2	Stakeholder Issue	How does the pipeline cross the Yukon River or any of the rivers?
3	Stakeholder Issue	Why does the pipeline route go from Livengood straight down and then to Minto Flats?
4	Stakeholder Issue	Is the project's main office in Anchorage?
5	Stakeholder Issue	Rampart Corporation is holding our annual meeting in July; it might be a good time for the project to come to Rampart to fill in the rest of the board about the project. Updated - July 2016 Rampart agenda for the July meeting was full. The project will schedule a meeting with Rampart Leadership during AFN October 2016.
6	Stakeholder Issue	We want Rampart's youth to become educated, gain management positions and acquire useful skills. The Trans-Alaska Pipeline System (TAPS) made promises about employment and training that were not kept.
7	Stakeholder Issue	It would be nice if the project would provide money for scholarships.
8	Stakeholder Issue	Is the project looking for Rampart's approval?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>
1	Follow up on invitation to attend Rampart's annual meeting in July.	Lisa Gray	06/06/2016

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	March 11, 2016
Sub-Project Name		Location	Fairbanks, AK
Meeting Subject	Alaska LNG Project Overview		

ATTENDEES			
Name	Organization	Name	Organization
Lisa Gray	Alaska LNG Project	Patty Murphy	E3 Environmental
Michael Kelly	Dinyea Corporation		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Stakeholder Issue	Where will the LNG facility be located?
2	Stakeholder Issue	Are there any unique challenges the project envisions in the Yukon River Delta?
3	Stakeholder Issue	Is your background primarily engineering?

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 11, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	Provide project update at Sub-regional meetings.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Andrew Jimmie	Minto Village Council	Frank Thompson	Evansville Tribal Council
Anne Silas		Geoff Beyersdorf	BLM, Alaska State Office
Ashley Woods		Gerald Sam	K'oyitl'ots'ina Limited
Bessie Titus (Tribal Administrator)	Native Village of Minto	Harold David	
Brianna Gray	Tanana Chiefs Conference (TCC)	Julie Roberts Hyslop	Tanana Chiefs Conference (TCC)
Carla Dick	Seth-De-Ya-Ah Corporation	Lenore Heppler	
Charlene Stern	Fairbanks Native Association	Lisa Gray	Alaska LNG Project
Donald Charlie (Board Member)	Toghotthele Corporation	PJ Simon	Allakaket Traditional Council
Elizabeth Wiehl	Rampart Traditional Council	Patty Murphy	E3 Environmental
Elizabeth Woods		Rachel Titus	Minto Village Council
Ella Sam		Walter Bergman	Allakaket Tribal Council

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Where would the off take points be located?
2	Stakeholder Issue	What we want to know is what benefits will the villages get from the project? Who is all this gas going to help?
3	Stakeholder Issue	During the TAPS renewal process, it was discovered the contract did not include Native hire and training.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 11, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	Project overview		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Blanche Sam	K'oyitl'ots'ina Limited	Patty Murphy	E3 Environmental
Lisa Gray	Alaska LNG Project	Tammie Baldrige	K'oyitl'ots'ina Limited

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	How close is the pipeline to Allakaket?
2	Stakeholder Issue	Which of the Allakaket Corporation villages would be impacted by the project?
3	Stakeholder Issue	Is the project still visiting the villages?
4	Stakeholder Issue	What does the project want to know from Allakaket Corporation? Is the project assessing if Allakaket Corporation has resources that can assist with the project? If Allakaket Corporation was in the vendor database, would we receive more updates? Allakaket Corporation has been receiving letters about meetings, is that from the project?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 14, 2016
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Update the Council on Alaska LNG Project		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Josselyn OConnor	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Update to the council	- G&G program, smaller than last year, concentrate on pipeline - 20 structures to be demo this summer, 18 of these have environmental concerns - global market for LNG challenging - Tesoro turnaround - we're in communication with them and plan to avoid/stagger field crews - RRs have been pushed back a few months to incorporate optimization efforts - nothing new on Kenai Spur Highway Relocation - nothing new until 2017

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	March 15, 2016
Sub-Project Name		Location	Anchorage, AK
Meeting Subject	Ahtna land access and materials site evaluation		

ATTENDEES			
Name	Organization	Name	Organization
Bryan Johnson	Alaska LNG Project	Roy Tansy Jr	Ahtna Netiyé'
Kim Fox	Alaska LNG Project	Tom Maloney	Ahtna Netiyé'
Ross Sorensen	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	March 15, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Fairbanks, AK
<b>Meeting Subject</b>	Project presentation to tribal council. Allakaket Village request.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Harold Davidson		Patty Murphy	E3 Environmental
Lisa Gray	Alaska LNG Project	Randy Mayo (home address)	Allakaket Village Council

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	What would it take for the project to have a return on investment, as well as a comfortable profit margin?
2	Stakeholder Issue	A lot of communities think that running a pipeline through the community equals free gas.
3	Stakeholder Issue	Please consider meeting with Allakaket Corporation in the village of Allakaket in the future.
4	Stakeholder Issue	Allakaket Corporation would like to see Section 29 and 30 of TAPS ROW agreement strengthened, to address sociocultural economics issues, build a subsection for training, and ensure Qualified Native Preference in employment opportunities.
5	Stakeholder Issue	Using Federal Charter Section 17 a tribe can receive its business charter to build capacity to be competitive and place bids. Down the road, Allakeket Corporation can present our brochure and describe our abilities.
6	Stakeholder Issue	Allakeket Corporation knows industry has programs like ANSEP.
7	Stakeholder Issue	Allakeket Corporation needs to consider how the project would impact our community, even if the pipeline is just in neighboring areas, as we have had moose and caribou populations diminish and invasive plants appear.
8	Stakeholder Issue	Allakeket Corporation is requesting the creation of Alyeska Funded Local Oil Spill Response Team. Allakeket Corporation has grave concerns of a mishap soiling the water.
9	Stakeholder Issue	If the project goes to EIS process, Allakeket Corporation would advise the tribe to weigh heavily the environmental justice component of NEPA, which would address socioeconomic impacts, and sociocultural impacts of industry activity or detrimental legislation that is a result of industrial activity such as Trans Alaska Oil Pipeline.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Unplanned/chance encounter	<b>Date of Meeting</b>	March 26, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Nikiski, AK 99611
<b>Meeting Subject</b>	Alaska LNG requested to attend the meeting and provide project development update		

## ATTENDEES


Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project	Richard McGahan	
Lou Oliva	L&J Enterprises Excavating Inc	Stacy Oliva	
Michele Hartline		Wayne Ogle	Kenai Peninsula Borough Assembly

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Background	There is a group of citizens in Nikiski organizing to submit an application to the Local Boundary Commission to incorporate as a Home Rule City. The group invited Alaska LNG to a meeting on March 26, 2016 and requested a project overview and timeline. The group is required to meet with all area organizations/businesses that may be impacted by their application.
2	Meeting discussion	Key topics: Alaska LNG project development phase - current phase and timeline was described to the group. Group objectives - the members of the group explained the process they are working through with the Local Boundary Commission to explore the opportunities of incorporating a home rule city of Nikiski. They stated they were working through their application process and plan to hold community meeting this spring/summer. The group requested an overview and timeline of the Alaska LNG project they can use in their application.
3	Follow-up email communication	Email sent on 3/30/2016 from Josselyn OConnor to Michele Hartline Nikiski Citizens Incorporation Study Group, Thank you for inviting Alaska LNG to provide a brief project overview and timeline update to your leadership on 3/26/2016. We appreciate the exchange of information. As you requested at the meeting, below is a project overview and the current proposed timeline. Project Overview The Alaska LNG Project is an integrated liquefied natural gas export project that would provide access to gas for Alaskans. The project is anchored by the Prudhoe Bay and Point Thomson fields and is expected to produce approximately 3.3 billion cubic feet of natural gas per day. The Alaska LNG Project includes a natural gas liquefaction plant and storage facilities and an export terminal at Nikiski on the Kenai Peninsula, an 800-mile gas pipeline from southcentral Alaska to the North Slope, a gas treatment plant and transmission lines connecting the project to gas producing fields. The project is expected to produce and export up to 20 million metric tons of LNG per year using clean, energy efficient and safe production methods and technologies. Project Participants BP, ConocoPhillips, ExxonMobil, and the State of Alaska signed a Heads of Agreement (HOA) establishing the guiding principles and basic framework under which the participants will advance the Alaska LNG Project. The State of Alaska was represented in the agreement by the Department of Natural Resources, Department of Revenue and the Alaska Gasline Development Corporation (AGDC). The HOA provided the State of Alaska with the opportunity to invest in the \$45 to \$65 billion project. The Alaska Legislature passed the legislation supporting the state's participation as a co-investor and the Governor signed it into law in May 2014. Proposed Timeline The Alaska LNG Project is in the preliminary engineering phase of development. The project team is working to optimize and finalize the project concept, define the project sufficiently to support major regulatory filings, and fine-tune capital cost and schedule estimates before a decision is made by the project participants to move to the next phase of development. Please do not hesitate to contact us if you have any further questions. Josselyn O'Connor

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Phone Call	<b>Date of Meeting</b>	March 29, 2016
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Inform the local state of Alaska troopers about mobilization of field program including property abatement & demo and g&g field program		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Josselyn OConnor	Alaska LNG Project	Trooper Ryan Tennis	Alaska Department of Public Safety (ADPS)

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Discussion highlights	Josselyn OConnor called Trooper Ryan Tennis to discuss mobilization of the Alaska LNG property abatement and demolition and 2016 G&G field program. Trooper Tennis was informed the property abatement and demolition of 20 properties will begin the week of April 4. He was informed that a kick-off meeting is scheduled for that week and the work will begin immediately. He was informed the work would last several weeks. He was also informed that courtesy notifications are ongoing with various stakeholders. Trooper Tennis was informed the summer G&G program will mobilize soon. Work is beginning offshore in Cook Inlet on the west side near Beluga. The work will progress across the inlet along the pipeline corridor to Boulder Pt. The work will also be taking place offshore near the proposed LNG site in Nikiski. I informed Trooper Tennis we would let him know when additional onshore G&G work begins. In addition, he was informed about the April 14th community meeting.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>



## MEETING DETAILS

<b>Meeting Type</b>	Email	<b>Date of Meeting</b>	March 31, 2016
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Gas Pipeline	<b>Location</b>	Kenai Peninsula Borough, AK
<b>Meeting Subject</b>	Communicate mobilization of marine activities		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Fred Miller	Nikiski Community Council	Josselyn OConnor	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Email Communication	Hi all, Many thanks for your continued dedication to serving our community! I take this opportunity to inform you our 2016 marine program will be mobilizing soon. In support of the Alaska LNG Project, ExxonMobil Alaska LNG LLC (EMALL) plans to conduct a geophysical and geotechnical survey program in Cook Inlet. The survey program will collect data for design and route selection of a proposed natural gas pipeline across Upper Cook Inlet and marine facilities proposed near Nikiski. Activities may occur for up to 16 weeks using equipment from up to three vessels. The survey objectives are to characterize the bottom surface and subsurface of Cook Inlet, evaluate seabed features, and identify soil conditions within the Cook Inlet survey area. We are working closely with state and federal agencies on this program, and we are committed to communicating directly with communities and other stakeholders. Cook Inlet Survey Program Details: • Up to 3 vessels (up to 240 feet in length) will conduct the surveys • Primary activities and equipment will include seabed sampling and surveying • Survey activities will occur starting in early April in Cook Inlet on the west side, north of Beluga and continue into the summer months along the potential pipeline routes and in the Nikiski area Thank you for your support in helping the Alaska LNG Project team have another safe and successful survey program in 2016. I will provide another update closer to mobilization of our onshore activities. We invite you to join us at our next community gathering, Coffee with Alaska LNG on April 14th at 6:30pm at the Kenai Visitors & Cultural Center. The project team will be discussing the summer field season in detail with the community. If you have any questions, please don't hesitate to contact us.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Email	<b>Date of Meeting</b>	March 31, 2016
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Gas Pipeline	<b>Location</b>	Kenai Peninsula Borough, AK
<b>Meeting Subject</b>	Communicate mobilization of 2016 marine work		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Audry Salmon	United Cook Inlet Drift Association (UCIDA)	Josselyn OConnor	Alaska LNG Project
Dave Martin	United Cook Inlet Drift Association (UCIDA)	Lisa Gabriel	Kenai Peninsula Fisherman's Association

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Email communication	Hi all, Many thanks for your continued dedication to serving our community! I take this opportunity to inform you our 2016 marine program will be mobilizing soon. In support of the Alaska LNG Project, ExxonMobil Alaska LNG LLC (EMALL) plans to conduct a geophysical and geotechnical survey program in Cook Inlet. The survey program will collect data for design and route selection of a proposed natural gas pipeline across Upper Cook Inlet and marine facilities proposed near Nikiski. Activities may occur for up to 16 weeks using equipment from up to three vessels. The survey objectives are to characterize the bottom surface and subsurface of Cook Inlet, evaluate seabed features, and identify soil conditions within the Cook Inlet survey area. We are working closely with state and federal agencies on this program, and we are committed to communicating directly with communities and other stakeholders. Cook Inlet Survey Program Details: • Up to 3 vessels (up to 240 feet in length) will conduct the surveys • Primary activities and equipment will include seabed sampling and surveying • Survey activities will occur starting in early April in Cook Inlet on the west side, north of Beluga and continue into the summer months along the potential pipeline routes and in the Nikiski area Thank you for your support in helping the Alaska LNG Project team have another safe and successful survey program in 2016. I will provide another update closer to mobilization of our onshore activities. We invite you to join us at our next community gathering, Coffee with Alaska LNG on April 14th at 6:30pm at the Kenai Visitors & Cultural Center. The project team will be discussing the summer field season in detail with the community. If you have any questions, please don't hesitate to contact us.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 1, 2015
<b>Sub-Project Name</b>	Gas Pipeline, Gas Treatment Plant, PTU Transmission Line, PBU Transmission Line	<b>Location</b>	Barrow, AK
<b>Meeting Subject</b>	General overview of the Alaska LNG Project , focusing on portions within the NSB (Pipelines and GTP)		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Adrienne Rosecrans	Alaska LNG Project	Matt Dunn	North Slope Borough (NSB)
Anthony Pennino	Alaska LNG Project	Ned Arey Sr	North Slope Borough (NSB)
Bart Ahsogeak	North Slope Borough (NSB)	Rhoda Ahmaogak	North Slope Borough (NSB)
John Q Adams	North Slope Borough (NSB)		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Take-off Points	Question from Rhoda- What will the take-off Points be for getting gas to the villages?
2	ASAP Status	Questions about what the ASAP Project is doing.
3	Effects of buried Pipelines of permafrost	What are the effects on permafrost from a buried gas pipeline? Need to include traditional knowledge in this design aspect.
4	Security at GTP	What are your security plans at the GTP?
5	Gravel Roads in PBU	Will you be improving/expanding any of the in-field roads from West Dock to GTP?
6	Use of Ice Roads	Are you going to use ice roads to move your modules
7	Use of NSB lands within Deadhorse for Project use	The NSB owns ~970 acres of land behind the EM Deadhorse Pad and is looking to develop these lands.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 1, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Gambell & 4th Avenue SSW, Anchorage, AK 99501
<b>Meeting Subject</b>	Present project overview and update to membership		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Bernice Agnes Brown	Northern District Setnetters	Page Henring	
Bob Redmond		Randy Charles	Northern District Setnetters
Dan Shilling		Ron Stanck	
David Billman		Rosetta Alcantra	E3 Environmental
Josselyn OConnor	Alaska LNG Project	Stephen Braud	
Kenny Rodger	Northern District Setnetters	Tom Rollman	
Kevin Barksdale			

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	What is an exclusion zone? What about directional drilling?
2	Stakeholder Issue	Will you be boring or trenching to get the pipeline into Cook Inlet?
3	Stakeholder Issue	Where does the project enter the west side of Cook Inlet? What is the chance the route gets changed to the east side?
4	Stakeholder Issue	Have you determined the validity of the shoreline fishery lease areas?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	May 6, 2016
Sub-Project Name	Integrated (All Segments)	Location	Seward, AK 99664
Meeting Subject	Alaska LNG overview and update to the Seward Chamber of Commerce membership		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description
1	Questions discussed	LNG facility siting - Nikiski Pipeline crossing Cook Inlet - may pipelines already cross Cook Inlet AVTEC - excellent collaboration running Alaska LNG simulations

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 9, 2016
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK
<b>Meeting Subject</b>	Update the Council on Alaska LNG Project		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Josselyn OConnor	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Update to the council	- part of the marine program has been completed - cultural studies are beginning soon - community meeting will be held after the release of the RRs later this summer - Aquifer pump test - planned for July, much to be worked out, will continue to update the community as information is available.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

Meeting Type	Meeting/Workshop	Date of Meeting	May 11, 2016
Sub-Project Name		Location	Chickaloon, AK
Meeting Subject	Present Project Overview and Engage Community		

## ATTENDEES

Name	Organization	Name	Organization
Jeff Myers	Chickaloon Community Council	Lisa Gray	Alaska LNG Project
Jill Alford	Chickaloon Community Council	Patty Murphy	E3 Environmental
Jim Ramsey	Chickaloon Community Council	Vicki Kindseth	Chickaloon Community Council

## DISTRIBUTION


Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Issue	Was the LNG facility location decision made because there is no available labor in Beluga? On page 7, it says "Castle Mountain faults" – it does not have anything to do with our Castle Mountain, does it?
2	Stakeholder Issue	Would it cost less to ship gas from Beluga versus Nikiski? Attendee said they thought the concept of moving gas from the North Slope for export is great and that most people are supportive. The big clinker is the cost and effort of this the project, at over 60 billion dollars. Where does the money for this project come from?
3	Stakeholder Issue	How many miles from Beluga to Nikiski underwater?
4	Stakeholder Issue	What is the schedule to decide on the route?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Unplanned/chance encounter	Date of Meeting	May 12, 2016
Sub-Project Name	Integrated (All Segments)	Location	Kenai, AK
Meeting Subject	Project update to University of Alaska - Fairbanks natural resources class		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project	Roger Pearson	

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	May 19, 2016
<b>Sub-Project Name</b>	LNG Plant, Marine Terminal, Gas Pipeline, Kenai Spur Highway reroute	<b>Location</b>	Kenai, AK
<b>Meeting Subject</b>	Alaska LNG present update and education on summer field activities, workforce development, and IHA		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Jeff Raun	Alaska LNG Project	Josselyn OConnor	Alaska LNG Project

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Alaska LNG update and discussion with Kenaitze Indian Tribe	Alaska LNG gave a project update. Kenaitze Indian Tribe raised these issues: - curious of the % of native workforce projected - traditional knowledge survey - can they see the results? - will there be free education for Kenaitze workforce?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	June 6, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Talkeetna, AK 99676
<b>Meeting Subject</b>	Present Project Overview to Council and Engage Community		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Lisa Gray	Alaska LNG Project	Patty Murphy	E3 Environmental

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Is the pipeline underground? . Is the powerline above or underground? What is the size of this powerline and is it on the maps?
2	Stakeholder Issue	How does the current state fiscal situation affect how the project moves this summer?
3	Stakeholder Issue	How does this project affect us?
4	Stakeholder Issue	Where are the offtakes? Attendee stated that if the offtake was in Trapper Creek, Talkeetna is only 3 miles away by river.
5	Stakeholder Issue	Contact the Sunshine Community Council regarding power line. Lands says information on this will be available in 2017.
6	Stakeholder Issue	Email Ruth Wood the size of power line at tothedogs@mtaonline.net. Complete per Lisa Gray.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>
1	Contact the Sunshine Community Council regarding power line.	Matthew Horneman	02/01/2017
2	Contact the Sunshine Community Council regarding power line. Lands says information on this will be available in 2017.	Matthew Horneman	07/06/2016

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	July 12, 2016
<b>Sub-Project Name</b>	LNG Plant	<b>Location</b>	Nikiski, AK 99611
<b>Meeting Subject</b>	To discuss and explain the Aquifer Pump Test with landowners within 1500' of the testing area.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Claudia Furlong	Homer Electric Association	Larry Persily	Kenai Peninsula Borough (KPB)
Dave Sadoff	Fugro Pelagos	Manny Lopez	Paragon Partners Ltd
Dean Bartsch		Matthew Horneman	Alaska LNG Project
Jeff Raun	Alaska LNG Project	Sterling Lopez	Paragon Partners Ltd
Josselyn OConnor	Alaska LNG Project	Wayne Ogle	Kenai Peninsula Borough Assembly

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Media/Press	<a href="http://www.kpb.us/mayor/lng-project/lng-project-updates/912-alaska-lng-plans-aquifer-test-late-summer-at-plant-site">http://www.kpb.us/mayor/lng-project/lng-project-updates/912-alaska-lng-plans-aquifer-test-late-summer-at-plant-site</a> <a href="http://peninsulaclarion.com/news/2016-07-14/alaska-lng-project-water-testing-to-occur-in-august">http://peninsulaclarion.com/news/2016-07-14/alaska-lng-project-water-testing-to-occur-in-august</a>

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

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MEETING DETAILS			
Meeting Type	Community Meeting/Open house	Date of Meeting	June 18, 2016
Sub-Project Name		Location	Nikiski, AK 99611
Meeting Subject	Project booth at Nikiski Family Fun Days		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 01-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	June 25, 2016
Sub-Project Name	LNG Plant, Marine Terminal	Location	Kenai, AK
Meeting Subject	Provide an update at UCIDA general membership meeting		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	June 28, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Minto, AK
<b>Meeting Subject</b>	Provide community with a project update.		

## ATTENDEES


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Candace Charlie		Patty Murphy	E3 Environmental
Carlos Frank	Minto Development Corporation	Philip Titus	
Cynthia Wilder		Rocky Riley	Tolovana Construction Company Inc
Doug Isaacson	Minto Development Corporation	Roy Charlie	
Franklin Silas		Susie Charlie	
Jesse Charlie		Tasha Edwards Michael	Umiaq
Keith Charlie		Walt Bauchman	
Lisa Gray	Alaska LNG Project	William Charlie	
Norm Scott	Alaska LNG Project		

## DISTRIBUTION


<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Invite Miles Baker from the state the next time the project visits the community of Minto.
2	Stakeholder Issue	Who makes up Alaska LNG? Is the project testing for permafrost? Is the project a stand-alone project? Is the pipeline going to be a 42 or 48-inch? How does the 42-inch pipeline stand up against the 12-inch pipeline - the bullet line?
3	Stakeholder Issue	Who is funding the project? Could the State tax the pipeline over \$2 billion a year?
4	Stakeholder Issue	Is the pipeline route set in stone?
5	Stakeholder Issue	Where are the offtake points? Is the state selecting where the offtakes will be located?
6	Stakeholder Issue	Where are the offtake points? Is the state selecting where the offtakes will be located?
7	Stakeholder Issue	An attendee requested that the project bring somebody from the state the next time the project comes out to the community.
8	Stakeholder Issue	Will there be Native preference hiring; does the project have anything in the contract for Native hiring? How is the pipeline going to benefit the community? Attendee stated that they want to go on record that Minto wants to benefit from Payment In Lieu of Taxes and receive at least \$3 million dollars per year because the project is going to affect the community. It is going right across the community's hunting grounds.
9	Stakeholder Issue	Why does the project keep using drillers from Anchorage? This Minto section contract really should go to a local company for the bear watch. The policies that the project puts in place right now can be tilted towards Alaskans. The community is frustrated and disappointed.

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ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date
1	Invite Miles Baker from the state the next time the project visits the community of Minto.	Lisa Gray	10/31/2016

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Unplanned/chance encounter	Date of Meeting	July 6, 2016
Sub-Project Name	LNG Plant, Marine Terminal, Kenai Spur Highway reroute	Location	Kenai, AK
Meeting Subject	Attend Only		

ATTENDEES			
Name	Organization	Name	Organization
Josselyn OConnor	Alaska LNG Project		

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date



## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	July 14, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Evansville, AK
<b>Meeting Subject</b>	Provide community with a project overview.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Avery Brearley		Mark Jennings	Alaska LNG Project
David Sinclair	Paragon Partners Ltd	Matthew Horneman	Alaska LNG Project
Edward Shanahan		Naomi Costello	Evansville Tribal Council
Eric L Fox		Noel Swanson	
Frank Thompson	Evansville Tribal Council	Patty Murphy	E3 Environmental
Hazel Pagkalinawan	City of Bettles	Rich Thorne	
Heather Fox		Tasha Edwards Michael	Umiaq
Lisa Gray	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	When all resource reports are available, send CD's to the Tribal Council and City. Limited internet availability makes looking up on line difficult.
2	Stakeholder Issue	What is the projected life of the pipeline? With pressure over time how long before it has to be dug up? How will the pipeline hold up in permafrost and earthquakes? What is the pipe made of and what environmental response unit do you have? Is FTA Free Trade Agreement? What non-FTA countries are targeted for market? Is the investor the same thing as the producer? Is that Exxon, Conoco, BP? Which other producers are Alaska LNG's competition? Attendee said, the gas is an Alaskan resource, it is coming from our state, we feel we should gain something more than a dollar. I am hearing you say it is the State of Alaska's responsibility, but do the oil companies consider it a part of their responsibility to extract the resource for the state?
3	Stakeholder Issue	How will the state pay for the pipeline?
4	Stakeholder Issue	Will the project use the Trans Alaska Pipeline System (TAPS) camps and gravel sources?
5	Stakeholder Issue	How far is the pipeline from Evansville/Bettles?
6	Stakeholder Issue	Will the project own the land along the whole pipeline or will some of it be leased?
7	Stakeholder Issue	Attendee said they think five interconnection points is conservative. With the five offtake points, is the plan to turn the liquid back to gas? It would be relatively easy for offtakes to be a distributed to the villages in the interior, which saves high-energy cost and fuel.
8	Stakeholder Issue	What kind of employment proposals does the project have for Indigenous Native people? Is it union or non-union, or both? Are there going to be a ton of jobs for heavy equipment operators, welding, and pipefitting?
9	Stakeholder Issue	Do they have petroleum engineering classes specifically for the pipeline?



MINUTES OF MEETING (MOM)

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**ACTION ITEMS**

Item	Action Items/Topics	Assigned To	Due Date
1	Send the Evansville/Bettles Tribal Council and City resource reports on CD's.	Lisa Gray	08/12/2016

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	August 15, 2016
<b>Sub-Project Name</b>	Integrated (All Segments), LNG Plant, Kenai Spur Highway reroute	<b>Location</b>	Nikiski, AK 99611
<b>Meeting Subject</b>	Coffee with Alaska LNG		

## ATTENDEES

Name	Organization	Name	Organization
Alison Williams		Joe Lemieux	
Audrey Johnson		John McDonald	
Barbara Dahl		John Michael	
Barbara Delano		Johna Beech	Kenai Chamber of Commerce
Barbara Phegley	Nikiski Resident	Josselyn OConnor	Alaska LNG Project
Ben Heaverley		June Conway	
Betty Idleman		Karl Sivertsen	
Betty J Lee		Karleigh Shannon	KSRM Radio - Kenai
Beverly Waldrop		Keith Gerke	
Bill		Kelly Dietsch	
Bill Warren		Kevin Rullman	
Blake Johnson		Louise Heite	
Bonnie Porter		Marian Nickelson	
Carol Brock		Mark Berdahl	
Charles Jenkins		Mark Dalton	HDR
Chrystal Schoenrock		Mary Lyll	
Constance Nicks		Matthew Horneman	Alaska LNG Project
Curtis Pennington		Mike Peek (personal contact)	
Dan Elsey		Mike Sheppard	
Dave Phegley	Nikiski Resident	Norm Darch	
Debbi Palm		Norman Olson	
Dennis Meadows		Oscar Evon	E3 Environmental
Dennis Seyler		Patti Hamilton	
Dick Hamilton		Patti Williams	

Dick Johnson		Ray Nickelson	
Donald Waldrop		Raye Dunn	
Edna Gerke		Richard McGahan	
Edwin Post	Swagelok NW-AK	Ronald D Lee	
Elizabeth Earl		Russell Mills	
Erik Barnes		Shannon Elsey	
Fred Braun		Shauna Thornton	
Fred Sturman		Stephanie Clay	
Gene Browning		Steve Dahl	
George Delano		Steven Bush	TRI Alaska LLC
Ginny Litchfield	Alaska Department of Fish and Game (ADFG)	Tami Murray	Soldotna Chamber of Commerce
Heidi Hatch (Home)		Tim Dillon	Kenai Peninsula Economic Development District
Jack Focose		Tina Barnes	
Jack Porter		Tonya Halliday	
Jan H Feller		Vern Kornstad	
Jan Kornstad		Veronica Post	
Jane Bentley		Vicki Duggin	
Jeff Raun	Alaska LNG Project	Virginia Harping	
Jennifer Mills		Walter Bentley	Real Estate Alaska LLC
Jim Graige		Wanda Seyler	
Jim Harping		Wayne Ogle	Kenai Peninsula Borough Assembly
Jody Rullman		Wendy Focose	Alaska House of Representatives - Mike Chenault's office
Joe Arness		William Brock	

## DISTRIBUTION

Name	Organization	Name	Organization


## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Issue	Has the project actually ever listened to a public comment and made a change?

2	Stakeholder Issue	Regarding the new spaghetti highway map for the Kenai Spur Highway relocation, the letters are confusing. The map has an "A" that goes just north of the project site, and there is an "A" that goes by the lake, and 5 of the 9 sites start with "A". Which route is the project looking at, are you looking closer to the LNG plant, or are you looking at taking the long route? If the route leaves Kenai on Marathon Road, go out through Kenai property to Mental Health Lands, Mental Health Lands to Holt Road, Holt Road, private piece of property, about 4 of them. Go on Alaska Mental Health Lands, and then two pieces of property, that connects to North Miller Loop behind the Lake Road. Then there will be a 5-lane bypass with very little land acquisition. That is where the road should go. There is going to be an open forum, Nikiski Group, for the new City of Nikiski, within a few days so I hope you will all join.
3	Stakeholder Issue	What is the exit plan if the project fails? Has the project put it together yet?
4	Stakeholder Issue	I believe, the project is still at the pre-FEED stage, right? For people who have not read the prior report, then the project has to get the regulatory approval, correct? Then it can go on to FEED, depending on the local economy and all the factors, is that correct?
5	Stakeholder Issue	What are the tangible benefits of bringing the LNG to Nikiski, other than the economics? How is it going to benefit residents?
6	Stakeholder Issue	Some landowners have been waiting three years to find out if the project is going to buy their land. Landowners need to know what is going on. Is the project going to buy the land? Can the state claim eminent domain on certain people's property? Is there a map of all the properties purchased and what will be purchased in the future?
7	Stakeholder Issue	Would it be better for the industries involved to deal with a single unified government entity in Nikiski, rather than a borough entity or government entity, especially contracting people?
8	Stakeholder Issue	How deep are the wells that draw water? Once the pumping starts is there going to be constant monitoring of the discharge? How much water is the project planning to use? The last study on the aquifer was in 1969 when Tesoro was here. The project says the cone is only 1,000 feet; the way that aquifers work, if it fractures, it could affect people 3,000 feet away. Is the project going to monitor further than 1,000 and 1,500 feet? What would all that fresh water do to Cook Inlet? When another plant was operating, they pumped Cabin Lake almost completely dry. They pumped down 3½ feet. How long does it take to recover the water? When the plant is operating, will there be any metals or ammonia in the discharge? When the plant is up and running, what are the plans for discharging? Is the project going to release discharge into lagoons, lined catching ponds, or just let it evaporate?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

	MINUTES OF MEETING (MOM)	DCN tbd 02-Nov-16 REVISION: FINAL
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MEETING DETAILS			
Meeting Type	Meeting/Workshop	Date of Meeting	August 22, 2016
Sub-Project Name	LNG Plant, Marine Terminal, Gas Pipeline, Kenai Spur Highway reroute	Location	Nikiski, AK 99611
Meeting Subject	Provide tour of the AK Department of Labor and Workforce Development Commissioner		

ATTENDEES			
Name	Organization	Name	Organization
Heather Beaty	Alaska Department of Labor and Workforce Development (ADLWD)	Kurt Olson (Kenai)	House of Representatives
Heidi Drygas	Alaska Department of Labor and Workforce Development (ADLWD)	Michael Nelson	Alaska LNG Project
Josselyn OConnor	Alaska LNG Project	Pat Metcalf	Alaska LNG Project

DISTRIBUTION			
Name	Organization	Name	Organization

AGENDA ITEMS		
Item	Agenda Item(s)	Description

ACTION ITEMS			
Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	August 23, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Allakaket, AK
<b>Meeting Subject</b>	Present Project Overview		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Brad Fox		Leilani Inman	Alaska LNG Project
Caryn Rea	Alaska LNG Project	Michael Nelson	Alaska LNG Project
David Sinclair	Paragon Partners Ltd	Patti Trocki	ERM
Eric Howard	FERC, Division of Gas - Environment and Engineering Office of Energy Projects	Rosetta Alcantra	E3 Environmental
Irene Henry	Allakaket Tribal Council	Samson Henry	
Jeremy Singleton	Alaska LNG Project	Shaun Bergman	
Jessica David		Warner Bergman	Allakaket Tribal Council
Lawrence Williams			

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	With \$500 million spent on the project this must mean it is a sure thing. What is the status of the project?
2	Stakeholder Issue	What field studies were conducted near Allakaket? Who conducted these studies? What studies were conducted north of the community?
3	Stakeholder Issue	This past winter a team conducted surveys of the community members [Allakaket] regarding subsistence resources. There was good participation and about 60 people participated. What impact do the subsistence and cultural resource surveys have on the project? How will subsistence survey information be used and presented? When will Allakaket get a copy of the report?
4	Stakeholder Issue	The community of Allakaket relies on subsistence. Hunters have to travel approximately 200 miles up the Kanuti River for moose, caribou and sheep. Gas costs about \$7.50 per gallon so these hunting trips cost about \$800.00 roundtrip. Moose and caribou are main foods for the community, along with sheefish and white fish. Without subsistence, they cannot afford to live in the area. There is a desire to teach their children the traditional way of life, as well as have them

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	August 23, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Houston, AK
<b>Meeting Subject</b>	Provide community with a project update.		

## ATTENDEES

Name	Organization	Name	Organization
Bert Cottle	City of Wasilla	Lisa Gray	Alaska LNG Project
Bethany Follett		Lynn Follett	
Bill Haller		Marc Van Dongen	Matanuska Susitna Borough Port Mackenzie
Butch Moore		Mike Alexander	
Dawn Deiser		Mr Wuerth	Wuerth Investment Group
Dorinda Brezina		Pam Nelson	
Eugene Harberman		Patty Murphy	E3 Environmental
Heidi Jenkins		Roger DeLongcamp	
Jeff Alden		Stephan Brezina	
Kathy Dunn	AGDC	Steve Dennis	
Lance Wilson		Tasha Edwards Michael	Umiaq

## DISTRIBUTION

Name	Organization	Name	Organization

## AGENDA ITEMS

Item	Agenda Item(s)	Description
1	Stakeholder Issue	How much different is the current presentation from 4 years ago? Where will the gas come from? Will it be dry gas? If the pipeline is going to end in Nikiski, the community needs to get access to the waste energy. Who is going to get access to the waste energy? If we learn nothing else from Valdez, Valdez gives waste energy to the staff. They do that all over the world. It is not a big deal. They have done studies on it. The project will need an access road to build this pipeline and a permanent road to do maintenance work on. Will this access road be a public road?
2	Stakeholder Issue	Is the project saying it is less expensive for a ship to come into Nikiski than Port MacKenzie?
3	Stakeholder Issue	There are going to be a lot of people coming to this state and communities' will start building a lot of accommodations for them. The state and the borough better start hiring land planners from southern California and use their expertise to stack people on top of each other.
4	Stakeholder Issue	Attendee stated that they have property on the Parks Highway. Will the line go within 300 feet of the right of way? In some parts of the Parks Highway, there is 100 feet in front of attendee's property.



5	Stakeholder Issue	Will there be an offtake line to the villages so they can get inexpensive gas? What is the closest off take point? Does the offtake infrastructure have to be built by the local community if they want to access gas? Where is the nearest offtake to Houston? How much are the offtake plants going to cost? There have never been any offtakes added to the Trans Alaska Pipeline System. It is cost prohibitive. Nobody has been able to afford it. If it is not there when it begins, the cost is astronomical. The closer the offtake is, whether it is on this end or Fairbanks end, it is better for the whole state as far as takeoff points to build them when the pipeline is built. For every mile of offtake we have to build on [Houston] side of the pipeline, the more expensive it is going to be. That is why the offtake point should be built right the first time. We are asking where is our gas, where is our money? Where is that takeoff point for Houston? What kind of revenue is the community going to have, and how is that going to work for us?
6	Stakeholder Issue	Why is this meeting scheduled for 6 o'clock? It does not give people a chance to commute back from work. Also, this is the same venue that the project had before and with the noise it is very difficult to hear. Why does the project not respect significant city meetings? Monday nights are a conflict. I have said this to LNG people before and they should have respect for the comments from the community. How is there supposed to be documentation for what is being communicated here? The noisy rooms are not appropriate without a microphone. The meeting is also conflicting with the city council and the borough meetings. This is not the first time this has happened. How is that recorder supposed to hear when we cannot hear?
7	Stakeholder Issue	What kind of revenue are the community going to have, and how is that going to work for us?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	August 23, 2016
<b>Sub-Project Name</b>	Integrated (All Segments), Gas Pipeline	<b>Location</b>	Denali National Park and Preserve, AK
<b>Meeting Subject</b>	Support FERC led McKinley Park Village Meeting		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Clay Walker	Denali Borough	Norm Scott	Alaska LNG Project
Eric Febbo	Alaska LNG Project	Oscar Evon	E3 Environmental
Mark Jennings	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	Where are the gravel sources for the project? Are the gravel sources outside the park area? What level of pipeline maintenance is involved once the project is complete? Are aircraft involved in the pipeline maintenance operations? Attendee requested renderings of the preferred and alternate routes. Will there be a Rev. C for the Resource Report? Would the gravel pits impact Denali Park?
2	Stakeholder Issue	Which part of the Yanert Valley is the pipeline routed through from Denali Park? Where will the access roads be located and routed for the section of the pipeline routed through the park? Is there a cost faction in the road decision? Which is the preferred and which is the alternate route? Attendee urged that the pipeline follow the highway. Attendee said the project should use the existing utility corridors. Which route does the National Park Service prefer? Is the justification of the pipeline routing through Denali Park also applicable to the Cantwell area? Will the pipeline be routed along the utility corridor to the south of Denali Park? The Denali Borough has a resolution in support of the pipeline being routed through the park
3	Stakeholder Issue	Where is the project in the project schedule?
4	Stakeholder Issue	What is the status of the National Park, State of Alaska and private land ownership in planning of the route through Denali Park? How wide is the easement corridor? If the State of Alaska takes over the project will the state utilize eminent domain to acquire the private lands needed?
5	Stakeholder Issue	Will there be an off-take in the area as a benefit to the park area people? It will be wonderful to have a gas off-take. Who do we lobby for the gas off-take? Is a gas off-take a National Park Service prerogative?

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Meeting/Workshop	<b>Date of Meeting</b>	August 26, 2016
<b>Sub-Project Name</b>	Integrated (All Segments)	<b>Location</b>	Anchorage, AK
<b>Meeting Subject</b>	Project Update at Tikahtnu Forum		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Anne Smith	Northwind	Joaqlin Estus	Koahnic
Curtis McQueen	Eklutna Inc.	Jon Ross	Salamatof Native Association Inc
Danny Laffoon	Federal Energy Regulatory Commission (FERC)	Kim Zello	Eklutna Inc.
David Harrison	Southcentral Foundation	Maria D L Coleman	Eklutna Inc.
David Kroto	Tyonek Native Corporation	Michael E. Curry	Eklutna Inc.
Debra Call	Cook Inlet Tribal Council (CITC)	Michael Nelson	Alaska LNG Project
Eric Howard	FERC, Division of Gas - Environment and Engineering Office of Energy Projects	Nikki Graham	Cook Inlet Tribal Council (CITC)
Eric Watson	Cook Inlet Tribal Council (CITC)	Oscar Evon	E3 Environmental
Greg Razo	CIRI	Patti Trocki	ERM
James Martin	Federal Energy Regulatory Commission (FERC)	Ryan Thorne	Cook Inlet Tribal Council (CITC)

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	If ownership of the project changes after FERC issues the permits, what happens?
2	Stakeholder Issue	What would the volume of Alaska LNG ship traffic be in Cook Inlet? Has there been consultation with communities about ship traffic?
3	Stakeholder Issue	Chickaloon is not on the Cook Inlet but what happens there affects the community's ability to eat. When the project talks with community councils, is that considered Government to Government Consultation? If commercialization of the North Slope gas is achieved, will Tikahtnu Forum be consulted? If the project waits to fund the FEED stage, the consultation may be irrelevant after five years.

## ACTION ITEMS

<b>Item</b>	<b>Action Items/Topics</b>	<b>Assigned To</b>	<b>Due Date</b>

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	September 27, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Cantwell, AK
<b>Meeting Subject</b>	Provide community with project update.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Armeda Bulard		Pat Metcalf	Alaska LNG Project
Christopher Bulard		Patty Murphy	E3 Environmental
David O'Donnell	Ahtna Construction	Rick McMahan	Denali Fly Fishing Guides
David Sinclair	Paragon Partners Ltd	Roy Tansy Jr	Ahtna Netiyé'
Gordon Carlson		Sherry Keever	
Jeni Mason		Tammany Dementi-Straughn	Ahtna Inc.
Josie Wilson AGDC	Alaska Gas Development Corporation (AGDC)	Tasha Edwards Michael	Umiaq
Kalb Stevenson		Tom Maloney	Ahtna Netiyé'
Mark Jennings	Alaska LNG Project		

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	How many man camps are proposed and how many people would there be in a man camp? If there was a chance to introduce natural gas to the area [Healy], would it be a separate project and separate contracts? What is the state planning on doing about upgrading the road here in Healy? It is in poor shape from the intersection to here right now. If there is going to be offloading on the railroad tracks the road in Healy is not suitable for lots of truck traffic. What is the project going to do about the bridge? When the school bus goes through the bridge, it is really one-lane. At that point, you just have to wait and let the bus pass through. Something would have to be done about the bridge. Just keep in mind that Cantwell school is here. We are a great little school. If this does become a man camp, it would be great for the community if the workers brought their family. What sort of work is the project doing with the Department of Transportation (DOT) to identify places where road conditions might not be up to the task for a project like this? How is the project going to handle sanitation? Will it be a bunch of porta-pottys? I read something in the Resource Reports that some of the most innovative technologies around water and wastewater treatment are part of the plan. Are there any other gas fields along the route that could be developed in the future? What kind of opposition is in play for this project from environmental groups or any other outfits out there? Is there a lot of opposition to the project? How many man camps are proposed and how many people are there in a man camp? Would you bring most of the material up on rail and offload it? How far north and south do you think the construction camps would be in Cantwell?

2	Stakeholder Issue	Is there going to be a pipeline? The producers could say, "Hey, we are out of here." With the change in legislature, could they say, "We are no longer interested in this?" Is the project going to make us money, or ten years from now are we going to look at this and go, "What were we thinking?" Contractors and service providers need to know, do we anticipate the project going forward? Do we spend money on hardware, equipment, upgrading our facilities only to have to go back to the banks in 3-years because we cannot make the notes? I have been on plenty of smaller federally and state funded projects where we waited all season to get work, and they pulled the plug when we got there.
3	Stakeholder Issue	What would be the earliest Cantwell can expect to see a man camp from the project? What is the duration of the construction period in this area?
4	Stakeholder Issue	Has the community been given the fact sheets explaining the difference between interconnection points and offtakes? My question is for AGDC, what are you doing for takeoffs?
5	Stakeholder Issue	Attendee stated they have no support for the project because it does not leave gas behind for the communities. Absolutely no support, the project comes along and say we are going to have a job in 2-3 years, but when you are gone, there is a big scar and the community does not benefit from the scar. Healy's electric costs are exorbitant. I do not know if it is the highest in the state, but we are up there. It takes a huge chunk out of your check every month.
6	Stakeholder Issue	Once the work is complete, is there going to be a service access road along the length of the ROW, or would it be revegetated? What is your plan?

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date

## MEETING DETAILS

<b>Meeting Type</b>	Community Meeting/Open house	<b>Date of Meeting</b>	September 28, 2016
<b>Sub-Project Name</b>		<b>Location</b>	Healy, AK
<b>Meeting Subject</b>	Provide community with project update.		

## ATTENDEES

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Barbara Brease		Lisa Gray	Alaska LNG Project
Dave Schirokauer		Mike Thompson	Alaska Gasline Development Corporation
David Sinclair	Paragon Partners Ltd	Patsy Nordmark	Motel Nord have
Ed Vorisek		Patty Murphy	E3 Environmental
Ivane Haverlikova		Sherry Keever	
Josie Wilson AGDC	Alaska Gas Development Corporation (AGDC)	Susan Braun	
Kalb Stevenson		Tasha Edwards Michael	Umiaq
Kate Weber	unaffiliated	Terry Hinman	AGDC

## DISTRIBUTION

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>

## AGENDA ITEMS

<b>Item</b>	<b>Agenda Item(s)</b>	<b>Description</b>
1	Stakeholder Issue	What is the address for the AGCD website? Would the FEED stage occur after the final EIS? Would it be smarter to wait until the EIS is complete before moving into the FEED stage? What diameter around the pipeline are you thinking of clearing? Attendee expressed concern with work done in their backyard; if the pipeline is buried, is the land going to stay clear on top of the pipeline? Will the pipeline be lighted with artificial lighting?
2	Stakeholder Issue	Now that the State of Alaska is taking over the project will only state money be used? Attendee expressed the belief that the investors would need to be there upfront for a smart project to precede, if there are no investors, why go on to the next \$1.5 billion phase? If the project stalls out because of lack of investment, and the EIS is complete, how long is the EIS good for? Is it 5-years?

3	Stakeholder Issue	Where are the investors going to come from if the producers do not want to be in the driver's seat? The oil companies will produce all the gas and there will be an understanding for the delivery of the gas. The producers have the largest amount of money to invest in a project. If the producers are not going to be in the driver's seat and take the lead role, and we look at the State of Alaska and all the projects it has involved itself in; from Mat Maid, to the egg project, to the fishing industry; it has not done well for the residents of this state, so why should the residents of this state believe this is going to be any different? The State's economy is in shambles, and this pipeline is going to do nothing to improve the economy, nothing. As a matter of fact, it is going to hurt the economy more than it does anything. Look at just the economics of the project. When you start looking at the liability of it – the Trans Alaska Pipeline System (TAPS) was built by the producers and the liability is solely the responsibility of the producers. Once the state steps in and takes the leadership role for this project, the liability falls completely on the state, which means residents of the state. It is not an enviable position to be in. Attendee stated that their impression is that either the investors show up and build up interest, or the project dies. So if it takes 10 years for financing, it might be too late and the EIS would start over? Will having an EIS attract investors more than where the project is right now? Attendee stated that they are still a proponent of gas for Alaskans. Energy relief for the state is necessary. If you go to Anchorage, it is all subsidized, cheap energy. Fairbanks and the interior are suffering. Interior fuel costs are astronomical. All of a sudden this project has warped from the development of gas for Alaskans to an export gas project. To me, thinking that exporting gas is going to put money in our pockets is like if you are running a mine and you found you have gold over here and iron over here, and you decide you are going to mine the iron versus the gold. That is the comparison of natural gas to oil. You are trying to take a commodity that is a very low value and make it a high value commodity and it cannot work! If you look at the price of LNG market, and I understand this project is not going to be done until 2027, and you have to anticipate the price of LNG, but still, even if you increase or double the price of gas from what it is right now, it still is not cost effective, it cannot pay for itself.
4	Stakeholder Issue	Could you tell us about the project to put the pipeline over the Denali fault and what that would cost? Why didn't the project choose the TAPS route? Wasn't it always intended to have this gasline?
5	Stakeholder Issue	Are those 5 offtakes still part of the price of that \$45 billion?
6	Stakeholder Issue	Regarding the process and sequence of milestones, when Resource Reports 2 and 10 are wrapped up will the project submit an application to the Federal Energy Regulatory Commission (FERC)? Will AGDC submit an application for Alaska LNG for this project? Is the project fully funded to take it from today to the submission of the application to FERC? When is the anticipated submission of the application to FERC? What if FERC comes back and says, "These parts of your application need work." Will there be a draft EIS, and a final EIS in 2018 or 2019? There are so many regulatory agencies that have their finger in the project that it becomes almost insurmountable to deal with all of them. The regulations are constantly changing. Last year, congress passed 47 new laws, which is normal for congress in the United States. Last year with all the different regulatory agencies in this country, there were 47,000 new regulations in one year. How in the world can any corporation keep up with all those regulatory changes?
7	Stakeholder Issue	Did you say below the active layer, suggesting parts of the pipeline will be embedded in permafrost? Because here [Healy] the active layer is way less than 3 feet. Is it okay being embedded in permafrost with the gravel around it? How will this project protect permafrost? What will be the impacts of thawing permafrost on the pipeline? We are losing permafrost unrelated to the pipeline. You are going to have a pipeline in permafrost and 10-years later there will no longer be permafrost, at no fault of the pipeline. The engineers need to account for loss of permafrost. They just need to engineer it around the possibility of the ground not staying permafrost because of natural and potential climate changes.
8	Stakeholder Issue	Questions regarding light mitigation at Healy Compressor, Sound mitigation

## ACTION ITEMS

Item	Action Items/Topics	Assigned To	Due Date