


ALASKA LNG PROJECT	DOCKET NO. CP17-____-000 RESOURCE REPORT NO. 3 APPENDIX J – TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	DOC NO: USAI-PE-SRREG-00- 000003-000 DATE: APRIL 14, 2017 REVISION: 0
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**APPENDIX J TEMPLATE WILDLIFE AVOIDANCE AND
INTERACTION PLAN**



DOCKET NO. CP17-____-000
TEMPLATE
WILDLIFE AVOIDANCE AND INTERACTION
PLAN

USAI-P2-SPZZZ-00-000015-000

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 2 OF 23

Plan Status

The following draft *Wildlife Avoidance and Interaction Plan* template outlines the anticipated human-wildlife interactions that could occur during construction of the Alaska LNG Project (Project). A draft plan would be completed following coordination with wildlife management agencies and provided in the Federal Energy Regulatory Commission (FERC) application. A final plan would be developed before construction, based on final conditions in any permits and updates to any construction execution plans.

Mitigation measures for wildlife—including Endangered Species Act (ESA), Marine Mammal Protection Act (MMPA), and Migratory Bird Treaty Act (MBTA) protected species—would be summarized in Resource Report No. 3 and not in this plan.

TABLE OF CONTENTS

- 1.0 INTRODUCTION..... 8**
- 2.0 BACKGROUND..... 9**
 - 2.1 HUMAN ACTIVITIES WITH WILDLIFE CONSIDERATIONS..... 9
 - 2.2 WILDLIFE INTERACTIONS WITH HUMANS..... 9
- 3.0 EDUCATION AND TRAINING 10**
 - 3.1 ROLES AND RESPONSIBILITIES 10
 - 3.2 BEAR/WILDLIFE MONITOR RESPONSIBILITIES 10
 - 3.3 MARINE MAMMAL MONITOR RESPONSIBILITIES 10
 - 3.4 COORDINATION OF TASKS AMONG PROJECT ENTITY GROUPS..... 10
- 4.0 SITE DESIGN AND OPERATIONS – LIQUEFACTION FACILITY 11**
 - 4.1 DETECTING WILDLIFE 11
 - 4.1.1 Site Design and Layout..... 11
 - 4.1.2 Lighting Systems..... 11
 - 4.1.3 Building Exits..... 11
 - 4.1.4 Wildlife Monitoring..... 11
 - 4.2 LIMITING WILDLIFE ACCESS 11
 - 4.3 FOOD AND GARBAGE MANAGEMENT..... 11
 - 4.4 SEWAGE AND WASTEWATER..... 11
 - 4.5 SNOW REMOVAL 11
 - 4.6 CARCASS REMOVAL 11
 - 4.7 COMMUNICATIONS..... 11
- 5.0 SITE DESIGN AND OPERATIONS – INTERDEPENDENT PROJECT FACILITIES 12**
 - 5.1 MAINLINE 12
 - 5.1.1 Detecting Wildlife 12
 - 5.1.1.1 Site Design and Layout..... 12
 - 5.1.1.2 Lighting Systems..... 12
 - 5.1.1.3 Building Exits 12
 - 5.1.1.4 Wildlife Monitoring..... 12
 - 5.1.1.5 Potential High-Encounter Wildlife Areas 12
 - 5.1.2 Limiting Wildlife Access 12
 - 5.1.3 Food and Garbage Management..... 12
 - 5.1.4 Sewage and Wastewater 12
 - 5.1.5 Snow Removal 12
 - 5.1.6 Carcass Removal..... 12
 - 5.1.7 Communications 12
 - 5.2 POINT THOMSON UNIT GAS TRANSMISSION LINE (PTTL) 12
 - 5.2.1 Detecting Wildlife 13
 - 5.2.1.1 Site Design and Layout..... 13
 - 5.2.1.2 Lighting Systems..... 13
 - 5.2.1.3 Building Exits 13
 - 5.2.1.4 Wildlife Monitoring..... 13

5.2.2	Limiting Wildlife Access	13
5.2.3	Food and Garbage Management.....	13
5.2.4	Sewage and Wastewater	13
5.2.5	Snow Removal.....	13
5.2.6	Carcass Removal.....	13
5.2.7	Communications	13
5.3	PRUDHOE BAY GAS TRANSMISSION LINE (PBTL).....	13
5.3.1	Detecting Wildlife	13
5.3.1.1	Site Design and Layout.....	14
5.3.1.2	Lighting Systems.....	14
5.3.1.3	Building Exits	14
5.3.1.4	Wildlife Monitoring.....	14
5.3.2	Limiting Wildlife Access	14
5.3.3	Food and Garbage Management.....	14
5.3.4	Sewage and Wastewater	14
5.3.5	Snow Removal	14
5.3.6	Carcass Removal.....	14
5.3.7	Communications	14
5.4	GAS TREATMENT PLANT (GTP)	14
5.4.1	Detecting Wildlife	14
5.4.1.1	Site Design and Layout.....	14
5.4.1.2	Lighting Systems.....	14
5.4.1.3	Building Exits	14
5.4.1.4	Wildlife Monitoring.....	14
5.4.2	Limiting Wildlife Access	14
5.4.3	Food and Garbage Management.....	14
5.4.4	Sewage and Wastewater	15
5.4.5	Snow Removal	15
5.4.6	Carcass Removal.....	15
5.4.7	Communications	15
6.0	DETERRENCE AND HAZING.....	16
6.1	WILDLIFE DETERRENCE TRAINING.....	16
6.2	HAZING/DETERRENCE PRINCIPLES.....	16
6.3	HAZING/DETERRENCE TOOLS AND TECHNIQUES	16
6.3.1	Deterrents to be Kept on Site.....	16
6.4	WILDLIFE BEHAVIOR AND DETERRENCE.....	16
7.0	WILDLIFE DETECTION, AVOIDANCE, AND REPORTING	17
7.1	BEARS – POLAR, BROWN (GRIZZLY), AND BLACK.....	17
7.1.1	Avoidance	17
7.1.1.1	Bear Den Detection Techniques	17
7.1.2	Interaction and Response	17
7.1.3	Reporting.....	17
7.2	WALRUS	17

7.2.1	Avoidance	17
7.2.1.1	Sensitive Areas/Periods	17
7.2.2	Interaction and Response	17
7.2.3	Reporting.....	17
7.3	MARINE MAMMALS – PINNIPEDS, FISSIPEDS, CETACEANS	17
7.3.1	Avoidance	17
7.3.1.1	Sensitive Areas/Periods	17
7.3.2	Interaction and Response	17
7.3.3	Reporting.....	17
7.4	FURBEARERS – FOXES, WOLVES, WOLVERINE, WEASELS, BEAVERS	17
7.4.1	Avoidance	17
7.4.1.1	Furbearer Den, Lodge, or Burrow Detection	18
7.4.2	Interaction and Response	18
7.4.2.1	Rabid Animal Management.....	18
7.4.3	Reporting.....	18
7.5	CARIBOU.....	18
7.5.1	Avoidance	18
7.5.1.1	Sensitive Areas/Periods	18
7.5.2	Interaction and Response	18
7.5.3	Reporting.....	18
7.6	MUSKOXEN	18
7.6.1	Avoidance	18
7.6.1.1	Sensitive Areas/Periods	18
7.6.2	Interaction and Response	18
7.6.3	Reporting.....	18
7.7	MOOSE.....	18
7.7.1	Avoidance	18
7.7.1.1	Sensitive Areas/Periods	18
7.7.2	Interaction and Response	18
7.7.3	Reporting.....	18
7.8	DALL SHEEP	18
7.8.1	Avoidance	18
7.8.1.1	Sensitive Areas/Periods	18
7.8.2	Interaction and Response	18
7.8.3	Reporting.....	19
7.9	PORCUPINES.....	19
7.9.1	Avoidance	19
7.9.2	Interaction and Response	19
7.9.3	Reporting.....	19
7.10	ARCTIC GROUND SQUIRRELS AND OTHER RODENTS	19
7.10.1	Avoidance	19
7.10.2	Interaction and Response	19


	7.10.2.1 Rabid Animal Management.....	19
	7.10.3 Reporting.....	19
7.11	BATS	19
	7.11.1 Avoidance	19
	7.11.2 Interaction and Response	19
	7.11.3 Reporting.....	19
7.12	CORVIDS AND GULLS.....	19
	7.12.1 Avoidance	19
	7.12.2 Interaction and Response	19
	7.12.3 Reporting.....	19
7.13	OTHER MIGRATORY BIRDS.....	19
	7.13.1 Avoidance	19
	7.13.2 Interaction and Response	19
	7.13.3 Reporting.....	19
8.0	REPORTING AND RECORD KEEPING	20
9.0	CONTACT LISTS	21
9.1	LIQUEFACTION FACILITY.....	21
9.2	INTERDEPENDENT PROJECT FACILITIES	21
	9.2.1 Mainline	21
	9.2.2 PTTL	21
	9.2.3 PBTL	21
	9.2.4 GTP.....	21
9.3	AGENCIES.....	21
	9.3.1 ADF&G.....	21
	9.3.2 USFWS	21
10.0	ACRONYMS AND TERMS.....	22
11.0	REFERENCES.....	23

LIST OF FIGURES

- Figure 1. Liquefaction Facility Activity Map (construction sequence, schedule, camp locations)
- Figure 2. Mainline Activity Map (construction sequence, schedule, camp locations)
- Figure 3. PTTL Activity Map (construction sequence, schedule, camp locations)
- Figure 4. PBTL Activity Map (construction sequence, schedule, camp locations)
- Figure 5. GTP Activity Map (construction sequence, schedule, camp locations)


LIST OF TABLES

TBD

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 7 OF 23

LIST OF APPENDICES [ORDER TO BE DETERMINED IN FINAL]

Map Books – Sensitive Wildlife Areas and Periods – to be developed with Final
Bear (Grizzly/Black) Observation Report Form – to be developed with Final
Protocols for Bear/Wildlife Deterrence and Hazing – to be developed with Final
[Discuss: Deterrence Training, Deterrence and Hazing Principles, Deterrence and Hazing
Tools and Techniques, Deterrents Kept On-Site, Wildlife Behavior and Deterrence]
Protocols for Response to Detected Bear Den Sites – to be developed with Final
Wildlife Interaction Report Form – to be developed with Final
Public Safety Permit – Application and Annual Report Form
Defense of Life or Property (DLP) Mammal Kill Report Form


	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 8 OF 23

1.0 INTRODUCTION

The purpose of this *Wildlife Avoidance and Interaction Plan* (Plan) is to provide guidance to personnel and contractors to assist in implementing appropriate, standardized procedures when wildlife is encountered during Project construction. Separate, more-detailed avoidance and interaction plans will be developed, including:

- Project Activities – *Avian Protection Plan* (spectacled eiders, bald and golden eagles, MBTA-protected birds).
- Project Activities -- *Noxious/Invasive Plant and Animal Control Plan*.
- West Dock Activities – *Marine Mammal Monitoring and Mitigation Plan* (bowhead whales, ringed/bearded seals, polar bears, walrus, other marine mammals as applicable).
- Marine Terminal and Mainline Activities – *Marine Mammal Monitoring and Mitigation Plan* (Cook Inlet beluga whales and other marine mammals).

These plans are included as appendices to Resource Report No. 3.

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 9 OF 23

2.0 BACKGROUND


This Plan describes procedures that employees and contractors would follow to protect both Project personnel and wildlife. [General introduction on human-wildlife interactions with common causes and results]

2.1 HUMAN ACTIVITIES WITH WILDLIFE CONSIDERATIONS

[Address attractants – waste, food, some chemicals. Address avoidance of wildlife corridors, bear guards, etc. Address seasonality of interaction.]

2.2 WILDLIFE INTERACTIONS WITH HUMANS

[Describe hazards associated with bear, moose, and other wildlife encounters, disease transmission, etc.]

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 10 OF 23

3.0 EDUCATION AND TRAINING

[Safety and interaction prevention; describe/list training programs; outline responsibilities by category; provide overview of coordination of activities with existing North Slope facilities (Prudhoe Bay, Point Thomson, Badami, Endicott, and Trans-Alaska Pipeline System)].

3.1 ROLES AND RESPONSIBILITIES

[To whom workers report within the Project entity and who has ultimate responsibility to report to an agency]

3.2 BEAR/WILDLIFE MONITOR RESPONSIBILITIES


[]

3.3 MARINE MAMMAL MONITOR RESPONSIBILITIES

See the *Marine Mammal Mitigation and Monitoring Plan* for details.

3.4 COORDINATION OF TASKS AMONG PROJECT ENTITY GROUPS

[]

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 11 OF 23

4.0 SITE DESIGN AND OPERATIONS – LIQUEFACTION FACILITY

The discussion would include a description of the:

- Construction area.
- Temporary camps.

[Brief description of any Sensitive Wildlife Areas/Periods – e.g., calving, foraging, rutting, migration, winter]

Figure 1. Liquefaction Facility Activity Map (construction sequence, schedule, camp locations)

4.1 DETECTING WILDLIFE

4.1.1 Site Design and Layout

4.1.2 Lighting Systems

4.1.3 Building Exits

4.1.4 Wildlife Monitoring

4.2 LIMITING WILDLIFE ACCESS

4.3 FOOD AND GARBAGE MANAGEMENT


[Wildlife-resistant storage]

4.4 SEWAGE AND WASTEWATER

4.5 SNOW REMOVAL

4.6 CARCASS REMOVAL

4.7 COMMUNICATIONS

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 12 OF 23

5.0 SITE DESIGN AND OPERATIONS – INTERDEPENDENT PROJECT FACILITIES

5.1 MAINLINE

The discussion should include a description of the:

- Construction area.
- Temporary camps.

[Brief description of Sensitive Wildlife Areas/Periods – e.g., calving, rutting, migration, winter]

Figure 2. Mainline Activity Map (construction sequence, schedule, camp locations)

5.1.1 Detecting Wildlife

5.1.1.1 Site Design and Layout

5.1.1.2 Lighting Systems

5.1.1.3 Building Exits

5.1.1.4 Wildlife Monitoring

5.1.1.5 Potential High-Encounter Wildlife Areas

[Pre-identify areas where food-conditioned wildlife is more likely to occur based on Alaska Department of Fish and Game (ADF&G) and U.S. Fish and Wildlife Service (USFWS) experience and on previous Defense of Life and Property kill records. Develop measures to exclude wildlife or monitoring.]

5.1.2 Limiting Wildlife Access

5.1.3 Food and Garbage Management

[Wildlife-resistant storage]

5.1.4 Sewage and Wastewater

5.1.5 Snow Removal


5.1.6 Carcass Removal

5.1.7 Communications

5.2 POINT THOMSON UNIT GAS TRANSMISSION LINE (PTTL)

The discussion should include a description of the:

- Construction area.

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 13 OF 23

- Temporary camps.

[Brief description of Sensitive Wildlife Areas/Periods – e.g., polar bear denning, rutting, migration, winter]

Figure 3. PTTL Activity Map (construction sequence, schedule, camp locations)

5.2.1 Detecting Wildlife

5.2.1.1 Site Design and Layout

5.2.1.2 Lighting Systems

5.2.1.3 Building Exits

5.2.1.4 Wildlife Monitoring

5.2.2 Limiting Wildlife Access

5.2.3 Food and Garbage Management

[Wildlife-resistant storage]

5.2.4 Sewage and Wastewater

5.2.5 Snow Removal

5.2.6 Carcass Removal

5.2.7 Communications

5.3 PRUDHOE BAY GAS TRANSMISSION LINE (PBTL)


The discussion should include a description of the:

- Construction area.
- Temporary camps.

[Brief description of Sensitive Wildlife Areas/Periods – e.g., calving, rutting, migration, winter]

Figure 4. PBTL Activity Map (construction sequence, schedule, camp locations)

5.3.1 Detecting Wildlife

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 14 OF 23

5.3.1.1 Site Design and Layout

5.3.1.2 Lighting Systems

5.3.1.3 Building Exits

5.3.1.4 Wildlife Monitoring

5.3.2 Limiting Wildlife Access

5.3.3 Food and Garbage Management

[Wildlife-resistant storage]

5.3.4 Sewage and Wastewater

5.3.5 Snow Removal

5.3.6 Carcass Removal

5.3.7 Communications

5.4 GAS TREATMENT PLANT (GTP)

The discussion should include a description of the:

- Construction area.
- Temporary camps.

[Brief description of Sensitive Wildlife Areas/Periods – e.g., calving, foraging, rutting, migration, over-wintering]

Figure 5. GTP Activity Map (construction sequence, schedule, camp locations)

5.4.1 Detecting Wildlife

5.4.1.1 Site Design and Layout

5.4.1.2 Lighting Systems


5.4.1.3 Building Exits

5.4.1.4 Wildlife Monitoring

5.4.2 Limiting Wildlife Access

5.4.3 Food and Garbage Management

[Wildlife-resistant storage]


	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 15 OF 23

5.4.4 Sewage and Wastewater

5.4.5 Snow Removal

5.4.6 Carcass Removal

5.4.7 Communications

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 16 OF 23

6.0 DETERRENCE AND HAZING

6.1 WILDLIFE DETERRENCE TRAINING


[Proper storage/labeling/color coding of deterrents]

6.2 HAZING/DETERRENCE PRINCIPLES

6.3 HAZING/DETERRENCE TOOLS AND TECHNIQUES

6.3.1 Deterrents to be Kept on Site

6.4 WILDLIFE BEHAVIOR AND DETERRENCE

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 17 OF 23

7.0 WILDLIFE DETECTION, AVOIDANCE, AND REPORTING

7.1 BEARS – POLAR, BROWN (GRIZZLY), AND BLACK

[Reference information in the *Marine Mammal Protection Act Assessment Report* of the Polar Bear]

7.1.1 Avoidance

7.1.1.1 Bear Den Detection Techniques

7.1.2 Interaction and Response

7.1.3 Reporting

7.2 WALRUS

[Reference information in the *Biological Assessment*]

7.2.1 Avoidance

7.2.1.1 Sensitive Areas/Periods

7.2.2 Interaction and Response

7.2.3 Reporting

7.3 MARINE MAMMALS – PINNIPEDS, FISSIPEDS, CETACEANS

[Ringed seals, bearded seals, harbor seals, and Steller’s sea lion, beluga whales, bowhead whales, humpback whales, minke whales, gray whales, harbor porpoise, Dall’s porpoise, killer whales, and sea otter reference information are in the *Biological Assessment, Marine Mammal Protection Act Assessment, and Marine Mammal Mitigation Plan.*]

7.3.1 Avoidance


7.3.1.1 Sensitive Areas/Periods

7.3.2 Interaction and Response

7.3.3 Reporting

7.4 FURBEARERS – FOXES, WOLVES, WOLVERINE, WEASELS, BEAVERS

7.4.1 Avoidance

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 18 OF 23

7.4.1.1 Furbearer Den, Lodge, or Burrow Detection

7.4.2 Interaction and Response

7.4.2.1 Rabid Animal Management

7.4.3 Reporting

7.5 CARIBOU

7.5.1 Avoidance

7.5.1.1 Sensitive Areas/Periods

7.5.2 Interaction and Response

7.5.3 Reporting

7.6 MUSKOXEN

7.6.1 Avoidance

7.6.1.1 Sensitive Areas/Periods

7.6.2 Interaction and Response

7.6.3 Reporting

7.7 MOOSE

7.7.1 Avoidance

7.7.1.1 Sensitive Areas/Periods

7.7.2 Interaction and Response


7.7.3 Reporting

7.8 DALL SHEEP

7.8.1 Avoidance

7.8.1.1 Sensitive Areas/Periods

7.8.2 Interaction and Response

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 19 OF 23

7.8.3 Reporting

7.9 PORCUPINES

7.9.1 Avoidance

7.9.2 Interaction and Response

7.9.3 Reporting

7.10 ARCTIC GROUND SQUIRRELS AND OTHER RODENTS

7.10.1 Avoidance

7.10.2 Interaction and Response

7.10.2.1 Rabid Animal Management

7.10.3 Reporting

7.11 BATS

7.11.1 Avoidance

7.11.2 Interaction and Response

7.11.3 Reporting

7.12 CORVIDS AND GULLS

7.12.1 Avoidance

7.12.2 Interaction and Response


7.12.3 Reporting

7.13 OTHER MIGRATORY BIRDS


7.13.1 Avoidance

7.13.2 Interaction and Response

7.13.3 Reporting

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 20 OF 23

8.0 REPORTING AND RECORD KEEPING

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 21 OF 23

9.0 CONTACT LISTS

[Organization flow chart – for requesting response, reporting]

9.1 LIQUEFACTION FACILITY

9.2 INTERDEPENDENT PROJECT FACILITIES

9.2.1 Mainline

9.2.2 PTTL


9.2.3 PBTL

9.2.4 GTP

9.3 AGENCIES


9.3.1 ADF&G

9.3.2 USFWS

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 22 OF 23

10.0 ACRONYMS AND TERMS

Term	Definition
ADF&G	Alaska Department of Fish and Game
ESA	Endangered Species Act
FERC	Federal Energy Regulatory Commission
GTP	gas treatment plant
MBTA	Migratory Bird Treaty Act
MMPA	Marine Mammal Protection Act
PBTL	Prudhoe Bay Gas Transmission Line
Project	Alaska LNG Project
PTTL	Point Thomson Unit Gas Transmission Line
USFWS	Department of Interior, United States Fish and Wildlife Service

	APPENDIX J –TEMPLATE WILDLIFE AVOIDANCE AND INTERACTION PLAN	USAI-P2-SPZZZ-00-000015-000 APRIL 14, 2017 REVISION: 0
	PUBLIC	PAGE 23 OF 23

11.0 REFERENCES