

ALASKA LNG PROJECT	DOCKET No. CP17-__-000 RESOURCE REPORT No. 9 APPENDIX T – CONSTRUCTION NOISE ABATEMENT PLAN	Doc No: USAI-PE-SRREG-00- 000009-000 DATE: APRIL 14, 2017 REVISION: 0
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**APPENDIX T      CONSTRUCTION NOISE ABATEMENT PLAN**





**DRAFT TEMPLATE  
CONSTRUCTION NOISE ABATEMENT PLAN**


**USAI-PE-SRREG-00-000009-022**

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### Plan Status


The intent of the Construction Noise Abatement Plan is to identify the anticipated sources of noise from construction equipment (e.g., excavators, pile drivers) and the Noise Sensitive Areas (NSAs) that would potentially be affected. The Plan would also provide general mitigation measures (e.g., mufflers, sound-proof enclosures) to be used during construction. The following draft Table of Contents for the Plan outlines the general sections that would be required. NSAs are identified in Resource Report No. 9 that would be potentially impacted by Project construction activities, along with proposed mitigation measures. The following Plan outlines the general sections that would be required. Site/activity-specific plans won't be able to be developed until construction contractors are appointed.

Of note, the Construction Noise Abatement Plan would likely not be developed if there are no sensitive areas identified by the agencies where time-of-day construction restrictions to address noise or prior notifications to let agencies or recreational users know about the potential noise would be required. If none of those areas are identified, this plan may not be necessary.

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## 1.0 INTRODUCTION

The purpose of this Construction Noise Abatement Plan (Plan) is to outline noise abatement measures for noise-sensitive locations during the construction phase of the Project.

## 1.1 REGULATORY REQUIREMENTS

### 1.1.1 Federal


The U.S. Environmental Protection Agency (EPA) identified an  $L_{dn}$  of 55 dBA as a threshold for outdoor noise in residential areas (EPA, 1974). This noise level is often used by federal and state agencies to establish noise limitations for cumulative noise exposure. With a 10 decibel nighttime weighting penalty, a 55 dBA  $L_{dn}$  noise level equates to a 24-hour continuous noise level of 48.6 dBA  $L_{eq}$  (24). The Federal Energy Regulatory Commission (FERC) limits the noise attributable to stationary energy facilities (such as compressor stations) to 55 dBA  $L_{dn}$  at NSAs such as schools, hospitals, or residences.

For buried trenchless construction, the applicable noise limit is 55 dBA  $L_n$ , which means that between the hours of 10:00 pm and 7:00 am local time the equivalent sound level ( $L_{eqt}$ ) must not exceed 55 dBA. See 18 Code of Federal Regulations 157.206(b)(5)(iii). There are no other identified numeric regulatory requirements specific to project construction noise for any of the Project components.

### 1.1.2 State and Local

The State of Alaska has not adopted noise regulations applicable to the Project. In the absence of an applicable state noise level limit, the FERC noise criterion of 55 dBA  $L_{dn}$  would be used to ensure the Project's compliance with noise regulatory requirements.

None of the local jurisdictions have adopted noise regulations applicable to the Project.

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## 2.0 AMBIENT NOISE QUALITY AND NOISE SENSITIVE AREAS (NSA)

[Information for this section will be developed per Resource Report No. 9, Section 9.3 for NSAs that impacted above noise level thresholds discussed in Section 1.0. Include associated noise assessment and modelling results in Resource Report No. 9 appendices that detail noise level impacts and mitigation associated with the Project construction, and include the following criteria:

- Type of construction equipment used.
- Construction duration.
- Time of day.
- Distance to NSA(s).
- Type of NSA(s).]


### 2.1 LIQUEFACTION FACILITY

[Identify Noise Sensitive Areas and tabulate/map locations]

### 2.2 INTERDEPENDENT FACILITIES

#### 2.2.1 Mainline

[Identify NSAs for Compressor Stations and buried trenchless construction locations]

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### **3.0 SOURCES OF CONSTRUCTION NOISE**


[This section will provide a listing and discussion of noise emission sources]

#### **3.1 LIQUEFACTION FACILITY**

#### **3.2 INTERDEPENDENT FACILITIES**

##### **3.2.1 Mainline Pipeline**



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## 4.0 CONSTRUCTION NOISE ABATEMENT MEASURES

[This section provides a discussion of the measures that would be included to reduce construction noise at NSAs. After identification of NSAs, the appropriate mitigation measures would be developed.]

### 4.1 LIQUEFACTION FACILITY

### 4.2 INTERDEPENDENT FACILITIES

#### 4.2.1 Mainline Pipeline

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## 5.0 REFERENCES