

Alaska LNG Project

Docket No. PF14-21-000
Preliminary Resource Report No. 10 – Alternatives
Public Version

Document Number: USAKE-PT-SRREG-00-0010

ALASKA LNG PROJECT	ALASKA LNG PROJECT PRELIMINARY RESOURCE REPORT 10 - ALTERNATIVES	DOC No: USAKE-PT-SRREG-00-0010 DATE: OCTOBER 1, 2014 Rev 0
	PUBLIC VERSION	Page i of 4

TABLE OF CONTENTS PRELIMINARY DRAFT

10.0	RESOURCE REPORT 10 – ALTERNATIVES	10-X
10.1	INTRODUCTION	10-X
10.1.1	Project Purpose and Need	10-X
10.1.2	Project Siting Requirements	10-X
10.1.3	Types of Alternatives Considered.....	10-X
10.1.4	Organization of Report	10-X
10.2	NO ACTION OR POSTPONED ACTION ALTERNATIVES	10-X
10.3	ALTERNATIVE ENERGY RESOURCES AND ENERGY CONSERVATION	10-X
10.4	SYSTEM ALTERNATIVES	10-X
10.4.1	Liquefaction Facilities.....	10-X
10.4.1.1	Existing Liquefaction Facilities.....	10-X
10.4.1.2	Existing LNG Import Terminals with Plans for Liquefaction Expansion	10-X
10.4.1.3	Proposed or Planned Liquefaction Facility Projects, Not Associated with an Existing LNG Terminal	10-X
10.4.2	Pipeline Facilities.....	10-X
10.4.2.1	Export of Natural Gas via Pipeline	10-X
10.5	LIQUEFCTION FACILITY ALTERNATIVES.....	10-X
10.5.1	Methodology, Constraints, and Rationale for Liquefaction Facility Alternative Evaluation	10-X
10.5.2	Liquefaction Facility Siting Alternatives.....	10-X
10.5.3	LNG Plant Layout Alternatives	10-X
10.5.4	Marine Terminal Layout Alternatives	10-X
10.5.5	Modular Offloading Facility Alternatives	10-X
10.5.6	LNG Liquefaction Alternatives	10-X
10.5.7	LNG Tank Alternatives	10-X
10.5.8	Flare Design Alternatives	10-X
10.5.9	Construction Alternatives	10-X
10.5.10	Dredge Method and Dredge Material Placement Alternatives	10-X
10.5.10.1	Alternative Dredge and Transportation Methods.....	10-X
10.5.10.2	Alternative Material Placement	10-X
10.6	PIPELINE ALTERNATIVES.....	10-X
10.6.1	Minimizing Impacts, Meeting Project Objectives, and Overall Project Constraints...	10-X
10.6.2	Methodology, Constraints, and Rationale for Route Selection	10-X
10.6.3	Analyzing Major Route Alternatives	10-X
10.6.3.1	Each Route Alternative	10-X
10.6.3.2	Proposed Route	10-X
10.6.4	Comparing Route Alternatives.....	10-X
10.6.4.1	Each Route Alternative	10-X

ALASKA LNG PROJECT	ALASKA LNG PROJECT PRELIMINARY RESOURCE REPORT 10 - ALTERNATIVES	DOC No: USAKE-PT-SRREG-00-0010 DATE: OCTOBER 1, 2014 Rev 0
	PUBLIC VERSION	Page ii of 4

10.6.4.2	Proposed Route	10-X
10.6.4.3	Summary of Comparative Impacts	10-X
10.6.5	Minor Route Variations.....	10-X
10.6.6	Construction Alternatives.....	10-X
10.6.7	Design Alternatives.....	10-X
10.7	GTP ALTERNATIVES	10-X
10.7.1	Methodology, Constraints, and Rationale for GTP and Module Offloading Alternative Evaluation	10-X
10.7.2	GTP Siting Alternatives	10-X
10.7.3	GTP Layout Alternatives	10-X
10.7.4	Alternatives to West Dock Expansion	10-X
10.7.5	Construction Alternatives.....	10-X
10.7.6	Dredge Method and Dredge Material Placement Alternatives.....	10-X
10.7.6.1	Alternative Dredge and Transportation Methods.....	10-X
10.7.6.2	Alternative Material Placement	10-X
10.8	PIPELINE ABOVEGROUND FACILITIES ALTERNATIVES.....	10-X
10.8.1	Compressor Stations.....	10-X
10.8.2	Heater Stations	10-X
10.9	PROJECT INFRASTRUCTURE ALTERNATIVES.....	10-X
10.9.1	Access Roads	10-X
10.9.2	Helipads.....	10-X
10.9.3	Airstrips.....	10-X
10.9.4	Construction Camps, Pipe Storage Areas, and Contractor Yards	10-X
10.9.5	Material Sites	10-X
10.10	REFERENCES	10-X

APPENDICES

10A	Figures Referenced in the Main Text of Resource Report
10B	Proposed and Major Alternative Pipeline Routes on Aerial Photography
10C	Proposed and Major Alternative Pipeline Routes on U.S. Geological Survey Topographic Map
10D	Proposed and Minor Alternative Pipeline Route Variations on Aerial Photography
10E	Proposed and Minor Alternative Pipeline Route Variations on USGS Topographic Map

ALASKA LNG PROJECT	ALASKA LNG PROJECT PRELIMINARY RESOURCE REPORT 10 - ALTERNATIVES	DOC No: USAKE-PT-SRREG-00-0010 DATE: OCTOBER 1, 2014 Rev 0
	PUBLIC VERSION	Page iii of 4

TABLES

- 10.X-1 Impact Summary for Liquefaction Facility Siting Alternatives
- 10.X-2 Impact Summary for Liquefaction Facility Layout Alternatives
- 10.X-3 Impact Summary for Major Pipeline Route Alternatives
- 10.X-4 Minor Route Variations in the Proposed Route
- 10.X-5 Impact Summary for Compressor Station Layout Alternatives
- 10.X-6 Impact Summary for GTP Siting Alternatives
- 10.X-7 Impact Summary for GTP Layout Alternatives

Figures (located in Appendix 10A)