

**Alaskan Arctic
Pipeline
Workshop**

November 1999

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Background

- **Northstar development project first offshore Arctic pipeline.**
- **Comprehensive FEIS completed in February 1999.**
- **Liberty development project under review.**

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“Although a cased pipeline was designed and is currently under construction for the Alpine Colville River crossing, there are significant differences in it’s application to subsea pipelines in an Arctic environment. Best available information is not sufficient to indicate that this (pipe-in-pipe) technology is as good or better than the proposed design for the Northstar carrier pipeline. However, the design appears to have merit in at least some specifications and warrants further consideration and analysis in future potential applications.”

**Beaufort Sea Oil
and Gas Development
Northstar Project FEIS**

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“In determining the appropriateness and practicability of a double-walled pipeline alternative there remain a degree of uncertainty surrounding the issues of reliability and structural integrity”

**Beaufort Sea Oil
and Gas Development
Northstar Project FEIS**

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Issues Identified in the FEIS

- **Control of construction defects.**
- **Complex design and related operational problems.**
- **Flooded annulus (double walled pipeline).**
- **Reliability and complexities of maintaining sensors in annulus of long pipeline.**
- **Extent and significance to construction, installation, repair and preventative maintenance.**

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Workshop Objectives

- **Provide current information on pipeline technology.**
 - risks
 - integrity
 - containment
 - leak detection
- **Provide meaningful dialogue between technical experts, regulatory authorities and public**

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