

Construction Logistics Planning

Construction logistics planning is a Glostén specialty. Our experience includes managing projects where large modules or floating structures are to be constructed off site, and support for projects where radioactive materials need to be transported by barge.

Project:

Redeployment of an arctic gravity drilling structure from Alaska to Russia

Contractor for Towing:

Crowley Marine Services

Scope:

Glostén performed the towing procurement planning, contract specification and RFP, contractor evaluation and selection, voyage tow simulation with statistical wind/wave/current parameters, evaluation of Russian entry ports and shipyard resources, and coordination with attorneys for re-naming and re-flagging.



Ocean tow as it rounds Point Barrow.

Project Description:

This mobile offshore drilling unit was transported from the Arctic Beaufort Sea to remote offshore operations in the Russian Far East through extreme weather and ice-pack conditions.

Page 2, *Construction Logistics Planning*

Project:

Trojan Nuclear Power Plant
Decommissioning

Client/Owner:

Portland General Electric

Contractors for River Transport:

Foss Maritime and Zidell
Explorations

Contractor for Land Transport:

Bigge Crane and Rigging Co.

Scope: Glosten created detailed navigation plans, designed a purpose-built barge with steel transport grillage and support pedestals, produced risk assessment, contingency, and salvage plans, and provided field assistance during transport. This project is one of a number that Glosten has supported for radioactive material shipments by barge.



Over 3 years of planning, engineering, and permitting went into this transport of the Trojan Reactor up the Columbia River.

Project Description:

This project encompassed the Trojan Nuclear Power Plant decommissioning. The entire reactor vessel was removed in one piece, with the internal core and piping stabilized with light weight grout, and then barged to the Hanford Nuclear Reservation for burial.

Page 3, Construction Logistics Planning

Project:

Module Transportation from Building Yards in Seattle and Tacoma to Alaska's North Slope

Client:

Crowley Marine Services

Scope: Glostien designed structural modifications and performed barge strength and damaged stability analyses for every summer season sealift from 1974 to 1990.



Modules loading aboard barges in a graving dock in Seattle.

A North Slope process module moving to the Tacoma barge slip on crawler transporters.



Page 4, *Construction Logistics Planning*

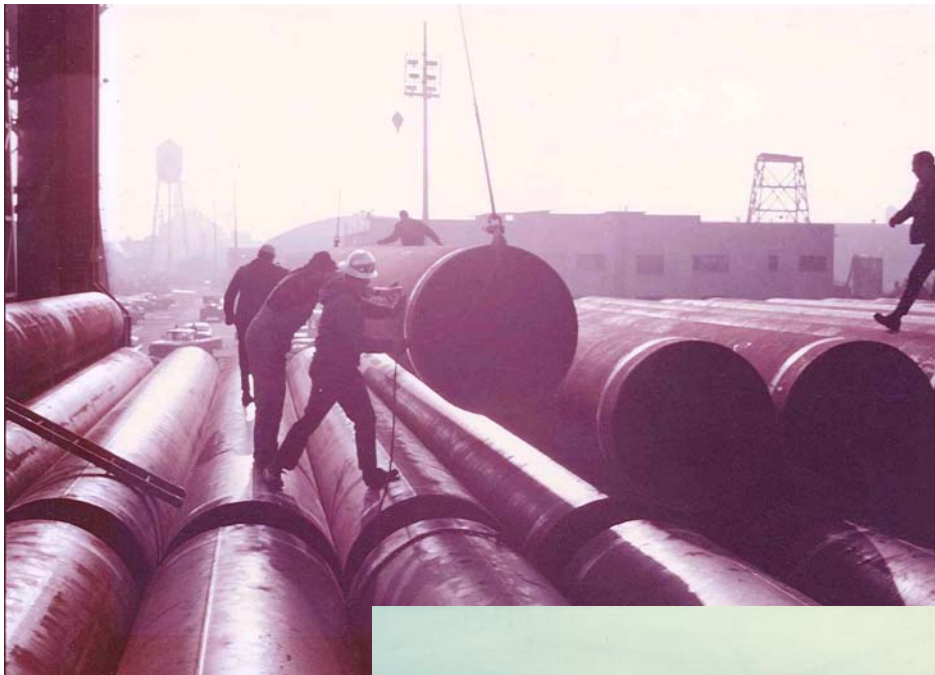
Project:

Transporting pipe to Prudhoe Bay, Alaska for construction of the Trans-Alaska Pipeline, 1970

Client:

Pacific Inland Navigation Co.

Scope: Glostén's clients transported nearly half of the 800 miles of pipe by barge to the North Slope at Prudhoe Bay, Alaska. Our effort involved the design and construction of six purpose-built barges, and analysis of pipe restraining forces and pipe wall stresses.



Loading pipe at the Port of Tacoma.

One of a fleet of barges loaded with pipe and navigating the northern Alaskan coast.

