

Project Scope:

Great Northern Engineering was contracted by the Aleut Native Corporation to complete multiple fueling and miscellaneous projects on Adak Island. The aging infrastructure and systems on the Island are exposed to an extremely harsh environment and require regular repairs and upgrades. GNE has been the engineers of record for the Island since the early 2000s.

Project Detail:

- Provided the design and construction support for a new truck loading rack and fueling system for the Adak Fuel Facility. The work included: inspection and assessment of the existing facilities, all engineering disciplines, a design basis, IFC drawings and specifications, fabricator selection, QA/QC oversight, construction support, and final installation inspection.
- Provided the design for two new fueling pipelines (approximately 1-mile in length, each), connecting the cut-and-cover tank farm to the pump house and new fueling skid at the Adak Fuel Facility. The work included: inspection and assessment of the existing pipelines and pump house, right-of-way selection, IFC drawings and specifications, crossing designs, cathodic protection, earthquake and expansion considerations, contractor evaluation and selection, QA/QC oversight, construction support, and final installation inspection.
- Provided Site Assessment Report to Aleut for the existing fuel system and tank farm at the Adak Fuel Facility. The report included all findings and recommendations for upgrades and repairs.
- Provided a design for upgrades to leak detection system at the Adak Fuel Facility. Upgrades recommended included the tank farm, liners, vaults, and pipelines.
- Provided a design for upgrades and an expansion to the Adak Fuel Facility cathodic protection system. The work included testing and assessment of the existing system, a repair plan, and an IFC design for the new system.
- Completed and stamped the Spill Prevention, Control, and Countermeasure (SPCC) Report for the Adak Fuel Facility.
- Provided the design for a high-level alarm system for the Adak Fuel Facility.

