

Project Scope:

Great Northern Engineering provided design and construction engineering services for expansion of the fuel storage facility at the Ted Stevens Anchorage International Airport.

All facility designs were provided in accordance with the requirements of the latest applicable local, State, and Federal regulations and codes.

Project Detail:

- Designed new supply branches to power two Motor Operation Valves on each tank.
- Designed lighting for safe operator access for maintenance and routine functions.
- Designed an extension of the existing Emergency Shut Down system.
- Designed heat tracing for the new storm drainage system.
- Designed a man-machine interface for system monitoring in facility control building.
- Designed new inputs for the facility Programmable Logic Controller (PLC).
- Designed a cathodic protection sacrificial anode grid system to prevent corrosion on tank bottom.
- Designed new AFFF pipeline system.
- Designed API 650 storage tanks (20-million gallon total capacity).
- Located platforms and walkways to allow for ease of access for maintenance personnel.
- Designed new pipe supports to allow pipeline routings for service, cargo, drain, water draw, and AFFF lines to various areas within the new tank farm area.
- Designed pipe supports configured to allow pipeline maintenance and fuel quality control tasks.
- Provided submittal reviews, on-site inspections, daily technical support as well as record as-built drawings for the completed project.
- Ensured that the project was completed on time, within the construction budget, and in conformance with the owner requirements.

