

### Project Scope:

Great Northern Engineering provided design and construction engineering services for a \$25 million, 300,000-barrel storage facility at Anchorage International Airport.

Provided an in-depth study to identify maintenance and repair work and system upgrades to insure the facility complied with local, state, and federal regulations and operations procedures.

### Project Detail:

- Designed lighting for safe operator access for maintenance and routine functions.
- Located platforms and walkways to allow for ease of access for maintenance personnel.
- Designed all tankage, secondary containment, fire suppression system, transfer piping, and a distribution system capable of delivering over 3,000,000 gallons per day at a rate of up to 12,000 gallons per minute.
- Designed a new piping system to include piping and controls for primary day tanks, bulk storage yard piping, control buildings, foundations, electrical pump controls, leak detection, pipe supports, guides and anchors.
- Provided coordination of civil, geotechnical, survey, structural, architectural, mechanical, electrical, fire protection, instrumentation, and cathodic protection.
- Provided technical support for local, State and Federal permitting.
- Provided construction management services as the Owner's representative. These services required:
  - An engineer on-site daily during the 1-1/2 years of facility construction.
  - Responsibility to ensure the job was built within the construction budget, within the specifications of the design and on time.

