

Project Scope:

Great Northern Engineering was contracted by ConocoPhillips Alaska, Inc. (CPAI) for the design and fabrication / construction support for the expansion and modernization of the Alpine Unit Jet Fuel Fueling System and Storage Facility. The facility will allow for increased air travel to the Greater Mooses Tooth (GMT) Unit and other sites under development west of the Colville River.

Project Detail:

- Provided demolition plans and Client support for demolition and removal of the existing Jet-A aviation fueling system and helicopter facility. Demolitions plans were based on site visits, CPAI specs, and a review of existing facility documentation.
- Provided a project Basis of Design, IFC design drawings, and specifications for fabrication and installation. This included a design narrative detailing all engineering disciplines.
- Provide architectural code analysis, life safety plan, module floor plan, and elevations.
- Provided the design for site civil and structural work including geotechnical recommendations, site prep, plinths and foundations, utilities, and structural steel. Steel design included all piping and tank supports, piperacks, framing, structures, ladders, catwalks, access, and stiles.
- Provided the design for the new Jet-A aviation fueling system including two 12,000-gallon above-grade tanks and piping. The design included all engineering disciplines.
- Provide a turnkey design for the new fueling module. The design included the necessary filtration, instrumentation, panels, controls, and aviation fuel dispensing system designed in accordance with the applicable IFC, NFPA, and ATA 103 fuel quality standards.
- Provided the designs for all additional site mechanical and electrical systems including power feed, lighting, equipment, valves, process, piping, and HVAC.
- Provided IFC designs for several design changes and additional scopes including transformer design, isometrics, additional maintenance access, equipment and long lead procurement support, Material Take Off Lists, tie-ins, and pump relocations.
- Provided Client support for the permitting process, contractor selection, fabrication, and installation.
- All work was coordinated with CPAI in accordance with SPC-GA-NS-80003 Design-Build Engineering Specification for Non-Process Facilities

