

### Project Scope:

Great Northern Engineering was contracted by R&M Consultants to design a new pier and shore facility at Palmer Station on Anvers Island, Antarctica. The conceptual design called for three initial design configurations.

### Project Detail:

- The project was carried out in a 15%, 35%, 65%, and 100% design package development process. Each milestone included a design review with the client.
- The scope called for fuel system design configurations to suit three design options with construction costs and installation schedule.
- All site scenarios and conditions were considered and a final design configuration was recommended for construction.
- Each design included a new arctic fueling system for the shore facility.
- Additional design for the fueling system included piping, pipeline connections, and the necessary infrastructure upgrades.
- The final design included an IFC drawing package and all required specifications.
- During construction, GNE provided engineering support and responded to contractor RFI's, Submittals, and Design Variance Requests.

