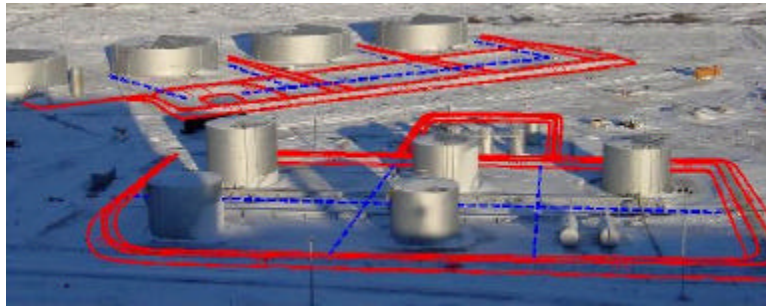


CHURCHILL MARINE TANK FARM UPGRADE

Hudson Bay Port Company

Churchill, Manitoba



Project Description

KGS Group was retained to provide design and construction management for a 5 million gallon perform a tank farm upgrade for the Churchill Marine Tank Farm Company in Churchill, Manitoba. The project included one kilometer of berms with geomembrane liner tying into a low permeability till unit to provide containment. A french drain system was also incorporated to lower the water table below the bottom of the tanks and to capture any spilled fuel. Electrical modifications of the bulk fuel storage and distribution facility included cathodic protection for underwater jacketed pipe at the marine dock, static ground system for the tank farm, survey of electrical system installations and explosion proof equipment and survey of cables and cable trays. Mechanical piping modifications of the tank farm included provision of floating suctions for four (4) tanks, conversion of four (4) tanks to Jet A1 fuel complete with metering/dispensing provisions, provision of new Jet A1 Truck Fuelling Facility and piping improvements for pumping Jet A1 fuel at selected tanks and pumps. Additional upgrades included corrosion protection, restoration of Aviation Gas Tankage and Dispensing System, wharf piping and offload system upgrade, fire protection suppression system and fuel spill containment system.

The total budget for the tank farm upgrade was \$5,000,000.

The project was awarded the Award of Merit in the Environmental category at the 2002 Consulting Engineers of Manitoba Awards of Excellence.