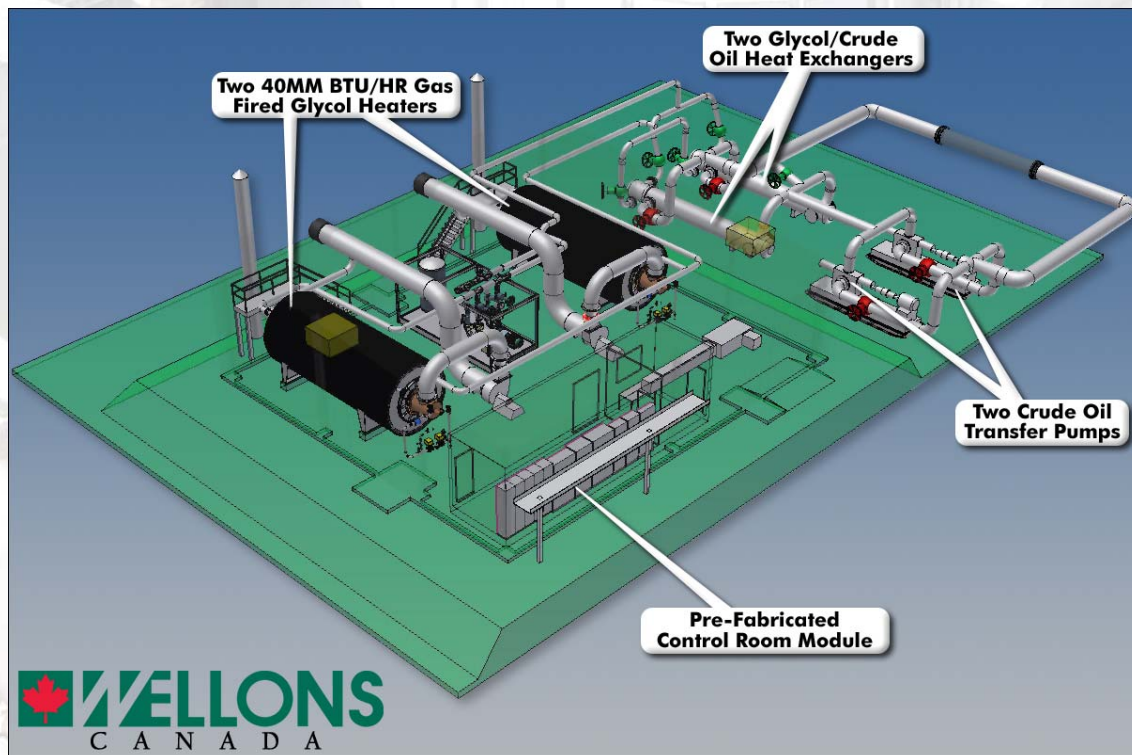


Based on Wellons extensive experience in the design, system engineering, fabrication and installation of gas fired thermal heaters, Enbridge Midstream selected Wellons Canada to supply a Primary Crude Oil Heating System (PCHS) for its Hardisty Contract tank facility in Alberta.

The design specification for the PCHS is to use a 115°C glycol/water mixture to heat crude oil in shell and tube heat exchangers to an industry standard temperature required for transmission of the crude oil in the pipeline system. The glycol fluid is heated in two 40MM BTU/hr Wellons designed and fabricated double helical coil, natural gas fired heaters.

One of the challenges in the project design was to modularize all of the equipment islands to make field installation as easy as possible. Wellons scope also included:

- Two 40MM BTU/hr Wellons Canada skid mounted double helical coil gas fired glycol heaters c/w combustion air fans, flue recirculation ducting, gas burners and trains, and stacks
- Glycol circulation pump skid c/w expansion tank and interconnecting piping
- Positive displacement crude oil pumps, skid mounted c/w field devices
- Shell and tube glycol / crude oil heat exchangers
- Pre fabricated electrical / control room module, with MCC, PLC panel, HVAC unit and electrical fixtures shop installed and wired
- Supply and installation of a modular building to enclose the gas fired heaters, glycol pump skid and the electrical / control room module
- Engineering services: foundation design, glycol and crude oil piping design, electrical design, installation supervision, commissioning / start-up supervision.



For more information about this project please contact Wellons Canada at 1.888.211.6077 or email [sales@wellons.ca](mailto:sales@wellons.ca).