

Petralgas Pipeline monitoring and control



Petralgas had a pipeline between its plant in Waitara and New Zealand Synthetic Fuels near Port Taranaki. This pipeline was used to exchange product between the plants i.e. it was bi-directional.

Abbey Systems supplied a SCADA system for the control and monitoring of this pipeline. It had its own Master unit for independent control and links to the Petralgas DCS so that the system could be monitored and controlled from there.

The RTUs were in control of the block valves and could monitor and control flow. They could also conduct shutdown and emergency shutdown procedures when required. The system also implemented two leak detection algorithms specified by the American Gas Association; large leak, which necessitated an Emergency shutdown, and small leak, which had shutdown and other discretionary procedures.

Communications were via long-range VHF radios with local operation of each RTU should communications fail.



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