



Project Profile

Project: Alliance Pipeline *Real Time* Project

Project Summary: Alliance Pipeline operates a natural gas pipeline system from northeastern British Columbia to the

Chicago, Illinois area market center or "hub" where it interconnects with the North American pipeline grid. This pipeline is designed for an initial throughput volume of 37.5 million cubic meters of high energy natural gas at a maximum allowable operating pressure of 12,000 KPa.

The Canadian portion of the system consists of approximately 1540 km of 1067 mm and 914 mm diameter steel pipe with seven 23 to 29 MW compressor stations.

The United States portion of the system consists of 1429 km of 914 mm diameter steel pipe with seven 23 MW compressor stations. This system also includes a Liquids Separation Plant, Aux Sable, to remove and sell liquids from the gas stream.



The scope of the project was to implement a Pipeline Simulation System that could be used for Alliance's Engineering, Predictive, Offline, and Real Time needs using a single pipeline model for all purposes. This Pipeline Simulation System also had to be flexible enough to integrate with all of the other systems that Alliance chose, both business and operational, as well as provide room for future expansion and growth of those systems.

Customer: Alliance Pipeline Ltd.
Location: Northwestern Canada to Chicago, Illinois, USA
Start Date: October 1999
Date Completed: May 2000 (October 2000 - Pipeline Startup)

Simulations Product(s) Installed: WinFlow and WinTran OnLine (Includes Real Time Model, Offline Predictive Model, Rupture Detection, Automatic Look Ahead, Self Tuning, Detailed Station Module, OnLine Data Interface to SCADA)

SCADA System: Honeywell
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