



A Rockwell Automation Company

Petro-Canada Resources Operator Interface Upgrade

The Client:

Petro-Canada Resources Ltd. is a Publicly Owned Crown Corporation who have become well recognized for their excellence in products and service in the Petrochemical Industry and rank as one of the top companies in Canada. In a continuing pursuit to improve their market share and maintain stable growth, existing facilities are upgraded and expanded.

The Valhalla Central Treating Facility is located North of Grande Prairie. The facility acts as a central gathering system to process Oil & Gas from wells in the surrounding field. Water injection is also used to improve oil recovery rates.

The Requirement:

The Valhalla Central Treating Facility went through a modernization 8 years ago when a control system consisting of a Programmable Logic Controller (PLC) and a PC based operator station was installed. The system displayed alarm information and volume information to operations personnel. The operations personnel used this information to operate the facility efficiently, until recently. In 1993 they began to experience hardware faults in the control system,

leaving operations personnel blind on numerous occasions to the process. The software for the graphic system was becoming difficult to support due to several upgrades and age of the system. A new system was contemplated and Hinz was asked to evaluate several options to replace the existing system. Future plans for accounting and SCADA expansion were to be considered in the evaluation.

The Design Solution:

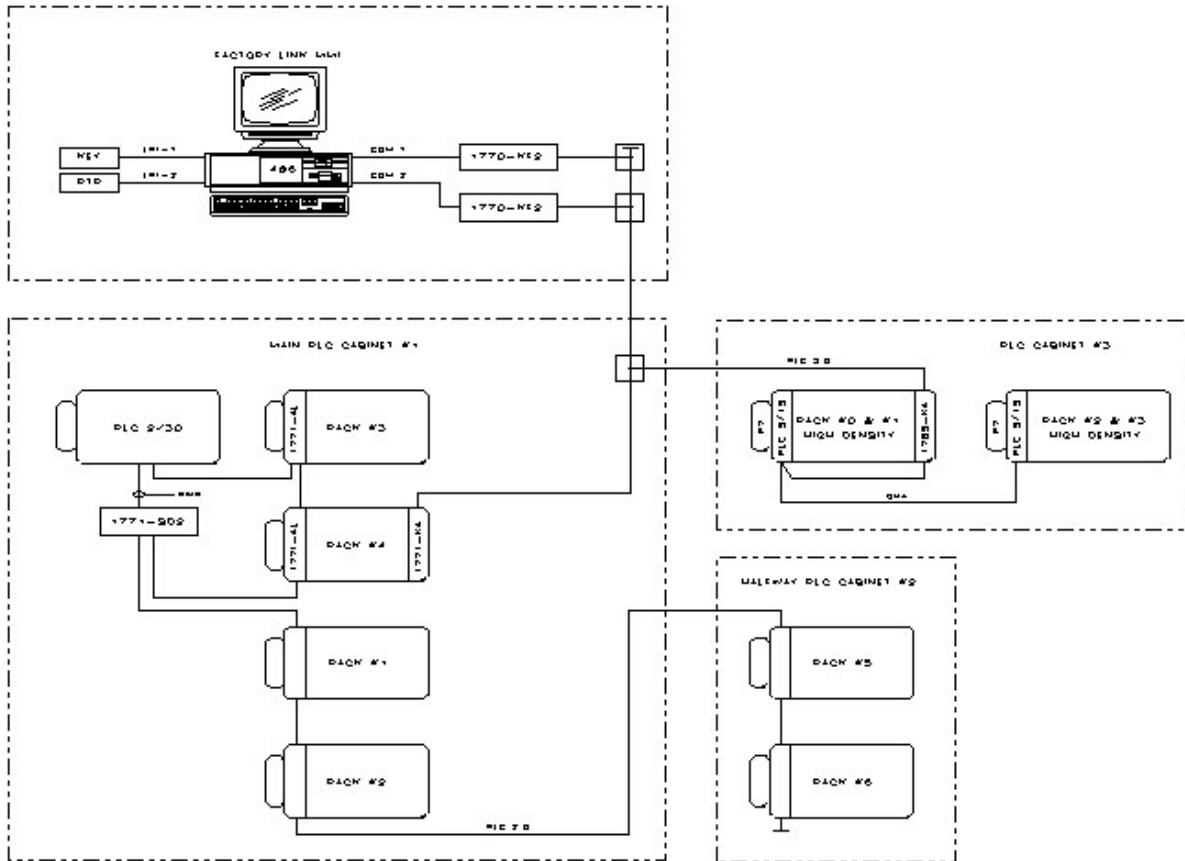
The existing graphic software was a PCAdvisor package communicating via an Allen Bradley data highway to 2 Allen Bradley PLCs. The new graphic system replaced the PCAdvisor package functions and increased the functionality ten fold. The Pixel based system could display more information per page and in many different forms. The replaced screens, however, were limited to duplicate existing functions. The programming approach ensured ease of expansion following the project. Onsite maintenance personnel received vendor training plus onsite training during commissioning. The new graphic system (called "Factory Link" by US Data) emulated existing screens

and dynamic points and incorporated new screens to view new plant additions. A total of 21 pages of graphics displayed 300 points. The graphic system ran on an OS/2, PC 486 based system. Alarm logging and set point entry were developed on the new system. The system has been operating successfully since installation in Spring of 1993. Plans to expand that system are already underway.



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System Specifications:

- Computer Hardware AST Bravo 486, 16M Extended Memory
- Printer - Epson Dot Matrix
- 1770-KF2 Interface Modules (2)
- US Data FactoryLink Graphics Software
- OS/2 Version 2.0 Operating System

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com