



A Rockwell Automation Company

ConocoPhillips Canada Ltd. Wembley Gas Plant Process Automation

The Client:

Founded in 1875, Conoco (NYSE:COC) has more than 126 years of experience in the energy industry. A fully integrated energy company, it is involved in every aspect of the oil and natural gas industry, including worldwide exploration, production, transportation, marketing, refining and power.

With the acquisition of Gulf Canada Resources in July 2001, Conoco added more than 1 billion barrels of oil, equivalent (BOE) to its worldwide reserves, which now total 3.7 billion BOE. The company's total worldwide oil production is also expected to increase

to 335 million BOE in 2001.

Conoco's North American liquids production - crude oil, syncrude and natural gas liquids (NGLs) - will more than double and liquids reserves will more than triple as a result of the Gulf Canada acquisition.

The Wembley Plant, located near Grande Prairie, Alberta currently processes a feed stream of 100mcf/d of wet and sour natural gas to produce sales gas, NGL product, LPG product, and condensate.

The Requirement:

The existing Modicon 984 system had been installed in the mid 1980s. At the time of replacement it was the only one of its type in the Province of Alberta making long-term maintainability difficult. The plant was to undergo a short shutdown during which time the PLC,

the critical piece in the plant ESD system, needed to be replaced

The Design Solution:

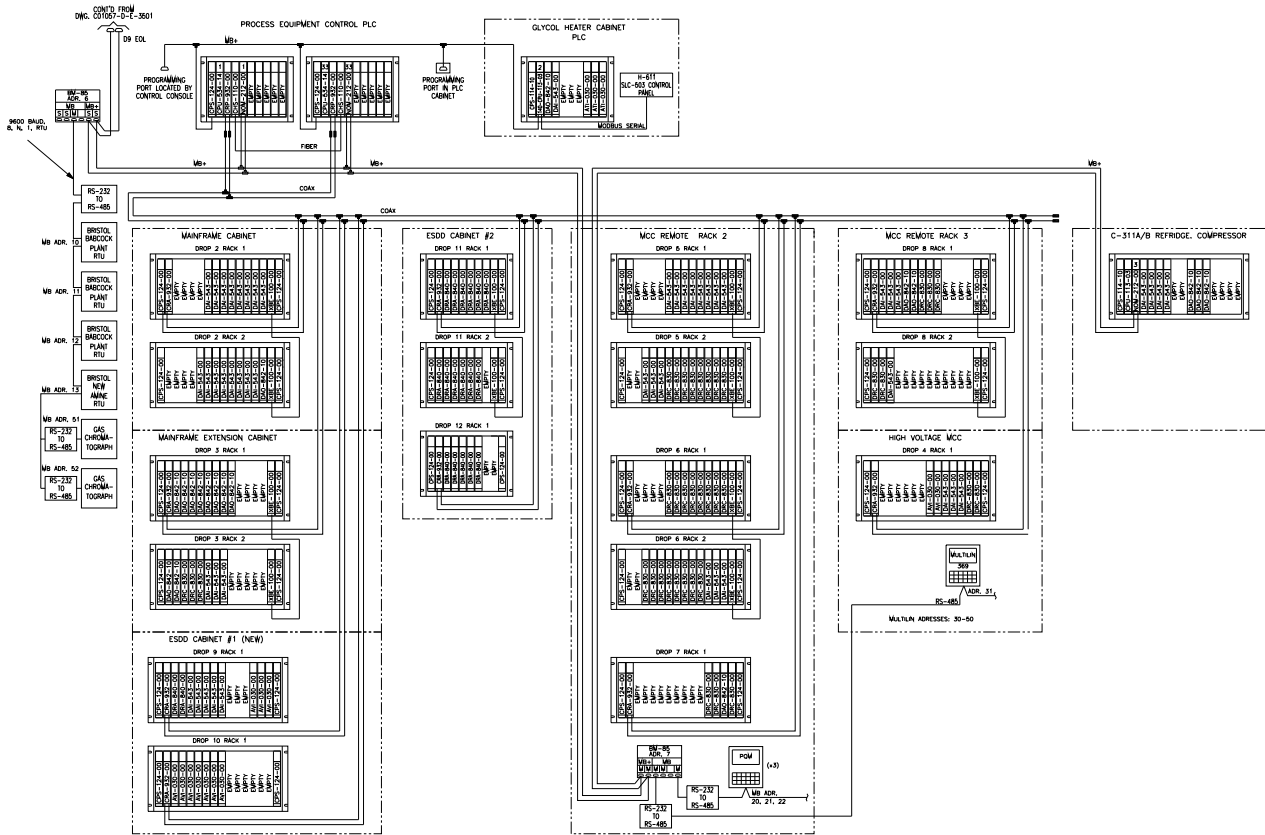
The decision was made to upgrade the existing PLC system to Modicon's Quantum line of processors and to utilize Modicon's Concept software. The existing logic was replaced according to a revised shutdown key. Modicon Bridgemux units were utilized to interface to the DeltaV DCS system, to Bristol

Babcock RTUs and to Multilin 369s. Redundant processors, and highways were installed to increase reliability.



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System Specifications:

- Modicon Quantum PLCs with Concept (IEC 1131.3) development Software
- Redundant CPU's for main process
- Redundant remote I/O highway to remote rack
- Redundant Modbus Plus Highway to communicate with remote PLC and auxiliary equipment.
- Data concentrator for power management system (Multilin), plant RTUs.

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

www.hinz.com