



A Rockwell Automation Company

Freshwater Fish Marketing Corporation Screenshot of Compressor Screen

The Client:

Freshwater Fish Management Corporation is a government-owned fish processing plant. They handle the processing of most of the fish from Lake Winnipeg and the surrounding area and

provide fisherman a reasonable price for their product.

The Requirement:

After doing extensive upgrades to their powerhouse over the past 6 years, Freshwater Fish found that most of their equipment was being run in manual mode by the operators. They required an extensive upgrade to their PLC

programming and HMI system, in order to automate the plant and reduce reliance on operators to run the plant.

The Design Solution:

To automate the upgrade to the powerhouse the existing system was completely overhauled. A new RSView HMI system was installed to replace the existing ControlView installation, and 10 new graphics screens were developed to allow the operators to quickly view the plant's operating status.

PLC programs were developed for the two existing PLC 5 processors in the powerhouse to control two evaporative condensers, 6 cooling fans, 4 water pumps, 4 ammonia vessels, 3 low stage boosters and 7 high stage compressors as well as numerous other equipment around the powerhouse and throughout the plant.

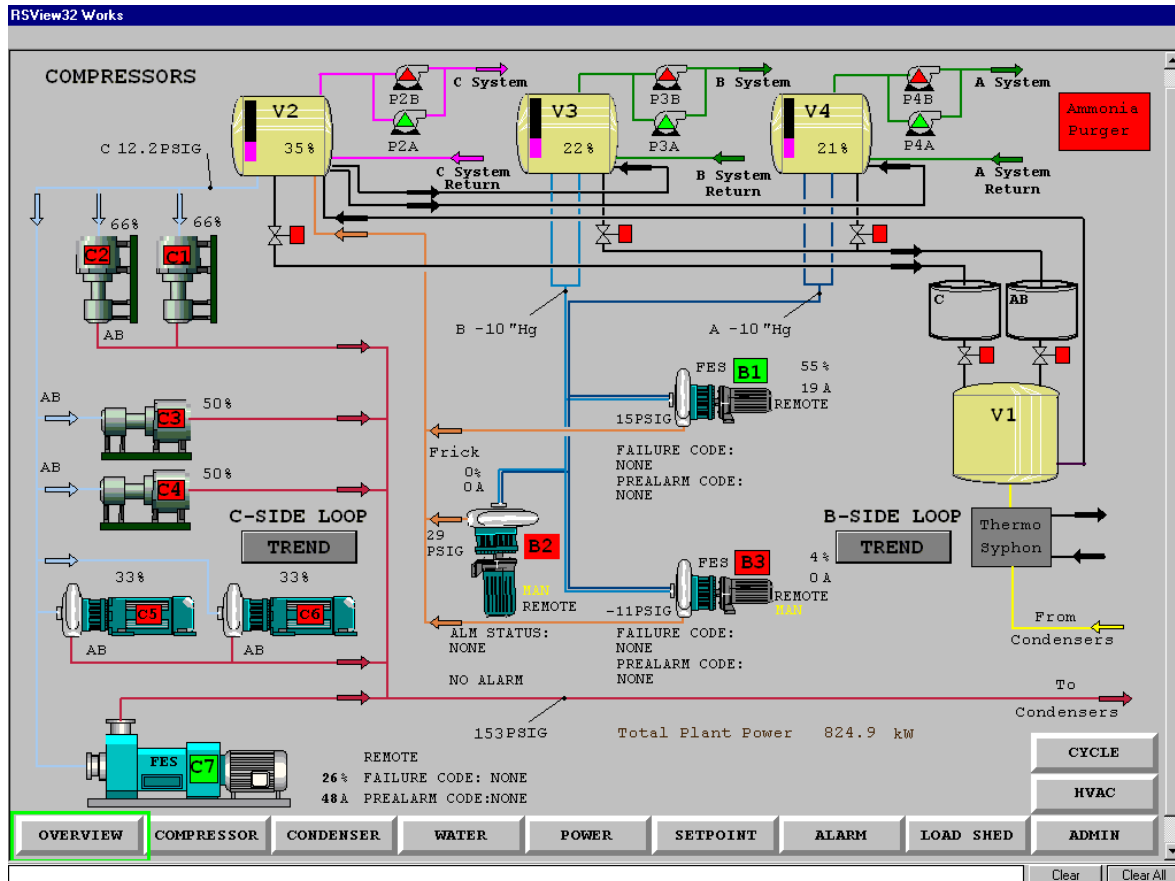
A new control system for the compressors was implemented whereby a single PID loop controlled an entire series of compressors. This system was designed to improve plant efficiency by keeping only the minimum number of compressors running to meet plant demand.

Five separate networks were used to connect the various systems. These included an FES comment network, Frick communications network, DH-485 and DH + Networks as well as a TCP/IP Ethernet backbone. The final system allowed the powerhouse to be run in a completely automatic mode.



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System Specifications:

- 2 PLC 5 Processors
- 2 RSView Stations

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

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