



A Rockwell Automation Company

Fleischmann's Yeast Ltd. PLC Upgrade

The Client:

Fleischmann's Yeast Ltd. is a subsidiary of Fleischmann's Foods Ltd., a prominent food producer. Fleischmann's Yeast Plant in Calgary specializes in the manufacture of yeast products

for commercial users as well as home brewing and baking.

The Requirement:

Fleischmann's Yeast Ltd. had an existing Allen-Bradley system based on PLC 1774 and 1778 I/O at their yeast plant in Calgary with approximately 320 I/O points. The plant maintenance manager contacted Hinz for replacement advice when Allen-Bradley phased out support for the 1774 and 1778 PLC systems.

The existing control system had sufficient capability for the plant and little expansion of the

existing functionality was required. They were also interested in computer-based operator interfaces, something they did not have at that time. Their existing operator interface consisted of lights, pushbuttons, and gauges generally located in a central control room as well as distributed throughout the plant.

The Design Solution:

A review of Allen-Bradley ControlView and PanelView options was undertaken with both functionality and cost concerns as a priority. In addition, discussions ensued concerning the future of the control system, expansion requirements, as well as control enhancements that may be required. Fleischmann's and Hinz personnel decided that the best solution for the plant's future needs required an Allen-Bradley PLC 5/25 and ControlView operator interface. Communications between the PLC 5/25 and ControlView involved the installation of an Allen-Bradley 1784-KT Direct Data Highway Plus card into the ControlView computer. Update times for the systems twenty screens are approximately one second. The process graphics layouts provided the plant operations personnel with a plant overview that they did not previously have. The installation of the ControlView MMI reduced the I/O

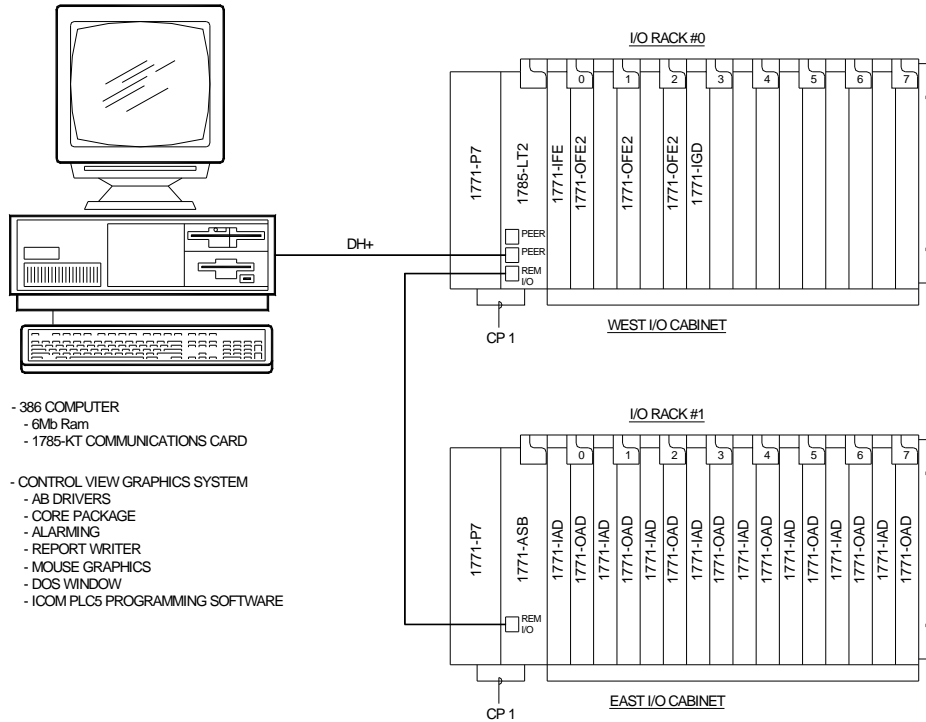
requirement by about 100, as the control panel items were no longer required. Initially the ControlView system operated in parallel with the control panel I/O. However, the operators quickly gained confidence in the computer-based interface and the control panel I/O was removed. A DOS Window application in ControlView also allowed the ControlView computer to double as the PLC 5/25 programming interface. ICOM's PLC 5 programming package provided the programming as well as PLC documentation for the PLC 5/25.

Fleischmann's electricians completed the PLC wiring changeover from the 1778 to 1771 I/O as well as the processor 1774 to 1785-LT2 exchange in a single weekend. Start-up of the new control system went reasonably smooth with little or no lost production time for the entire procedure.



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System Specifications:

- Allen-Bradley PLC 5/25
- Allen-Bradley ControlView
- 96 - 120VAC Digital I/P
- 96 - 120VAC Digital O/P
- 16 - 4-20Ma Analog I/P
- 12 - 4-20Ma Analog O/P
- ICOM PLC 5 Programming Software

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

www.hinz.com