



A Rockwell Automation Company

Goldcorp Inc., Red Lake Mine Mill Process Control System

The Client:

Goldcorp Inc. operates the richest gold mine in the world at Red Lake, Ontario. After the crushed ore is skipped to the surface, it is conveyed to a mill for concentration and refining. Due to the discovery of a

body of high grade ore, the mine has started on a major expansion process.

The Requirement:

The mill has a central control room utilizing 2 Wonderware workstations as the operator interface.

There is also a workstation at the Backfill Plant and an engineering workstation. Goldcorp had purchased new computers and software to update the workstations to the latest products available. Coincident with this

process, the mill wanted to revise the alarm logic so that it was a PLC function rather than an HMI function, as well as make some other system changes. A new InSQL server was also to be configured.

The Design Solution:

With the exception of the project documentation, all work was done on site. This allowed Goldcorp personnel to become familiar with the system as it was developed.

The following tasks made up the scope of work:

1. Upgrade InTouch from version 7.1 SP6 to version 8.0 (latest SP) and reconfigure the Distributed Alarm System for version 8.0.
2. Upgrade InSQL Server from 7.1 to 8.0 and Upgrade the OS from Windows NT4.0 server to Windows2000 Server.
3. Install Active Factory 8.0 on the Operator Workstations and Development Workstation.
4. Switch the InSQL server from the Development Workstation to a dedicated Server. Upgrade the number of Tags from 500 to 5000.

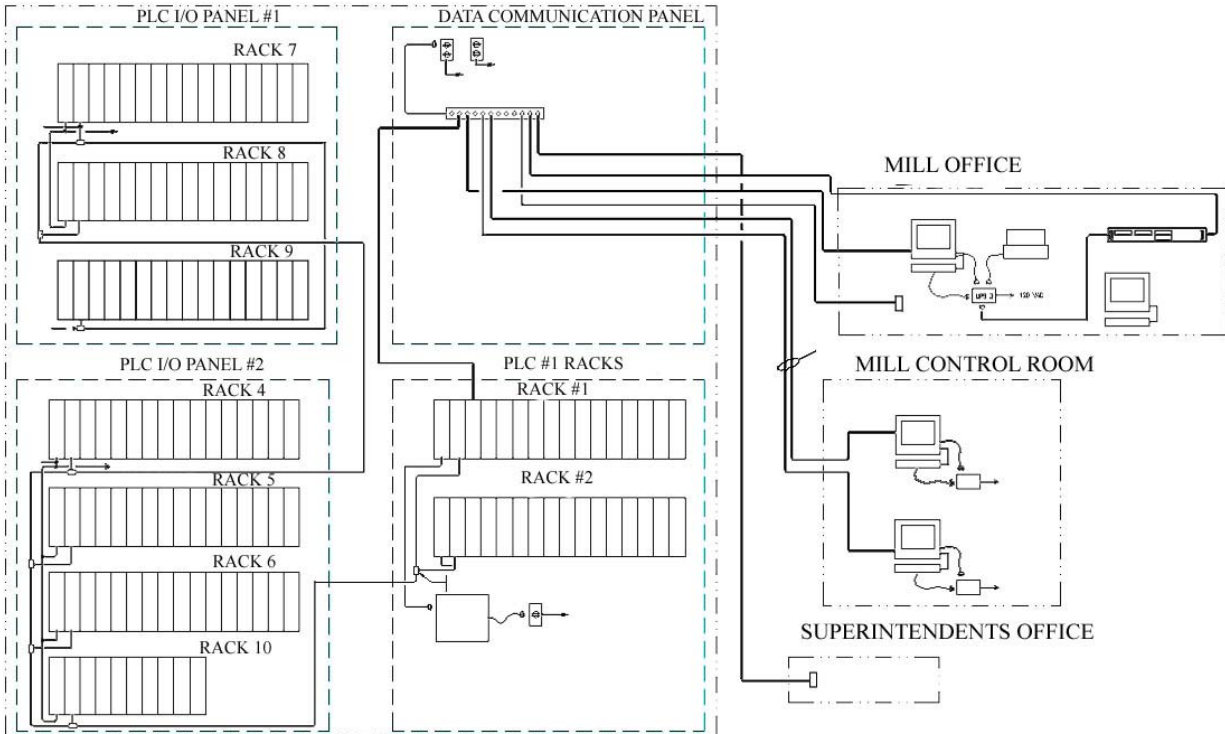
5. Install new workstations or replace the existing Operator and Development Workstation "CPU Boxes".
6. Create PLC status screens on the InTouch HMI.
7. Switch all HMI alarming to the PLC.
8. Set up a Control room buzzer for Unacknowledged Alarms.
9. Update of the Control System Block Diagram (Includes a Site Audit).

Changing the alarm logic from the HMI system to the PLC system required some careful planning to ensure the change was transparent to the operators.



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System Specifications:

- Dell Server
- Dell Workstations
- Windows 2000
- Wonderware v8.0
- Concept v2.5
- InSQL
- ActiveFactory 8.0

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