



NAME OF THE PROJECT
M580 migration

FIELD
Mining and mineral
processing

LOCATION
Schefferville

YEAR OF ACHIEVEMENT
2022

Context

The customer wanted to migrate the program from its Quantum automaton to an M580 automaton as part of its modernization and renewal of automatons. PCI assisted the client by converting its programs and then planning and implementing the implementation within a short period of time.

Mandate

PCI's mandate was to migrate the program from the old Quantum PLCs to the new generation PLC M580. To do this, PCI carried out the migration using Unity M580 Application Converter (UMAC) conversion software from Schneider Electric. PCI had a limited bank of hours to complete this migration as well as make any necessary changes to the program following the conversion. PCI also planned and executed the go-live while providing post-deployment support.

Tasks performed

- Analysis and validation of the list of hardware required for the migration provided by the client
- Provide step-by-step instructions for commissioning
- Analysis of existing programs, for drafting functional documents
- Conversion of PLC programs
- Changes to program error related to conversion
- Report of changes
- Upgrading a programming station
- Redundancy checks and tests
- Commissioning and support

Solutions provided by PCI

- PLC migration (M580) including possible conversion of function blocks
- Upgrading a programming station (ControlExpert V15.0)
- Upgrade of the automated application standard
- Updating API architecture drawings

Tools and methods used

- Agile management method
- Unity Pro XL V8.0
- EcoStructure ControlExpert XL V15.0
- Unity M580 Application Converter (UMAC)
- Applicable standards ISA-88, 95, 106
- AutoCad