



A Rockwell Automation Company

Amoco Canada - Regina Station Regina Terminal Controls Relocation

The Client:

Amoco Canada Petroleum

The Requirement:

Amoco Canada was leasing the Regina Station storage facility from Procor. At the end of the lease, Procor installed their own Allen-Bradley PLC5 to control the equipment of the facility. Both Amoco and Procor required data from the Daniel flow computer. As

well, interlocks were required between Amoco's GE-Fanuc 90-70 PLC and Procor's Allen-Bradley PLC 5/11.

The Design Solution:

Hinz was contracted by Amoco Canada Petroleum to provide assistance in making program changes to their GE 90-70 PLC as well as finding a solution to the data communication.

A number of communication solutions including hardwired interlocks, direct communication to the Daniel by the AB PLC5 and a stand-alone data collector/converter were examined.

Since all the required data was already being brought into Amoco's GE 90-70 PLC, Amoco and Procor decided to use SST's 5136-SD-VME interface card.

The SST SD card occupies one slot in the GE 90-70 chassis. The Allen-Bradley Data Highway DF1 Protocol code is stored in the GE 90-70 as hex data and downloaded to the SST SD card over the VME

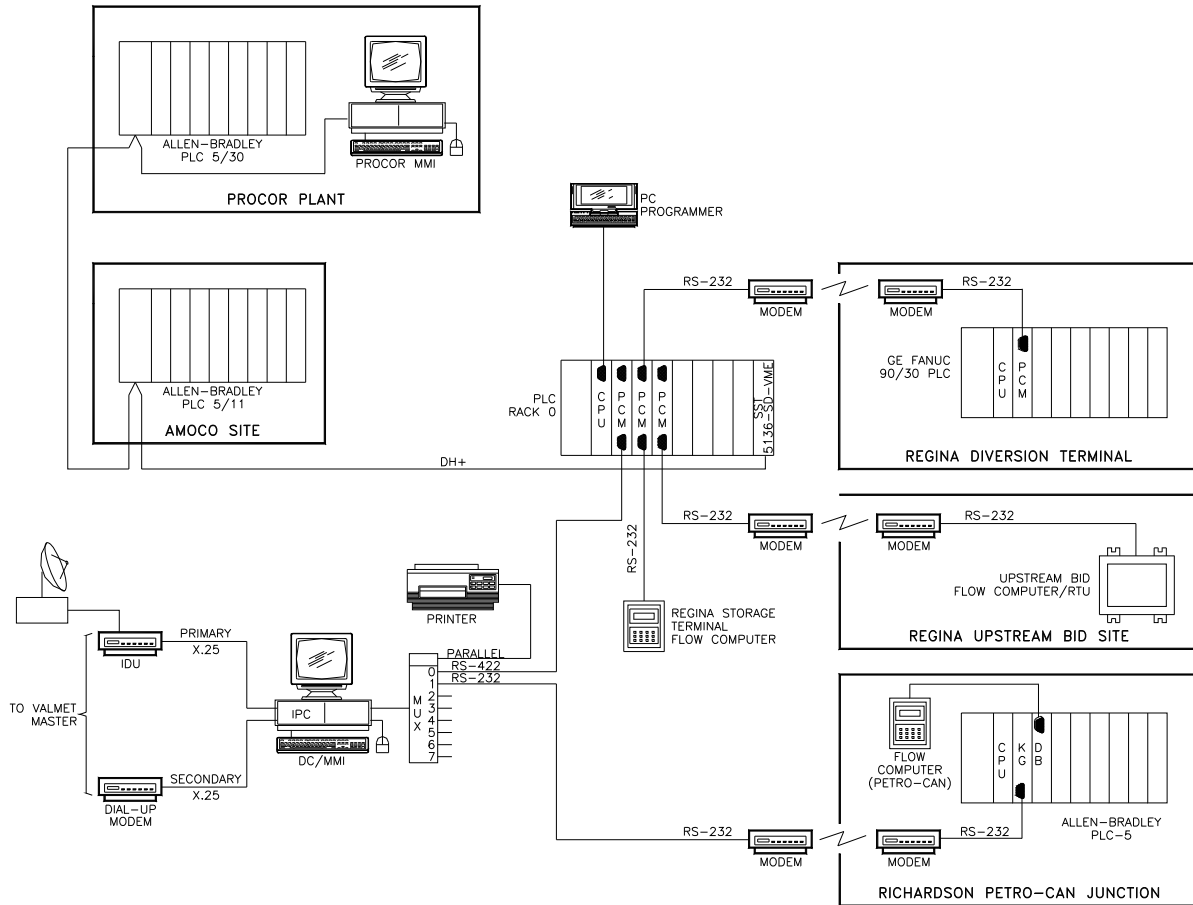
backplane. The AB DF1 communication commands are initiated using ladder logic in the GE 90-70.

All the required data is sent to the AB PLCs from the GE 90-70. Since some of the data from the Daniel flow computer is double integer and the AB PLC5 does not support double integer, double integer values are converted to real values in the GE 90-70 and written



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System Specifications:

- GE Fanuc 90-70 PLC
- GE Fanuc 90-70 PCMs
- Daniel Model 2500 flow computer
- SST 5136-SD-VME interface card
- Allen-Bradley Data Highway Plus
- Allen-Bradley DF1 Protocol and Command Set
- Allen-Bradley PLC 5/11 and PLC 5/30

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

www.hinz.com