



Genesis Line PLC & HMI Retrofit

METALS APPLICATION STORY

Application/Problem:

Existing in the plant are three lines of production that coat the insides of catalytic converters. The system consists of three Siemens S5 PLC's, none are networked together. They are monitored by a Genesis computer program.

The customer wanted to update the existing PLC's which could be programmed using Siemens' Step 7 software and collect data to a single computer, so that it could then be moved to a SQL Server database.

Project Solution/Customer Benefit:

Flanders Electric – Engineering Division provided three WinAC Slot PLC's and WinCC development to meet the customer's needs. This included the evaluation of the existing system and reverse engineering the existing Genesis computer program.

The WinAC Slot PLC's were programmed with Step 7. Two WinCC servers were provided to add redundancy, so that if a server failed, the other could be used.

The machines that had WinAC on them also had WinCC clients, so that each line could be monitored and controlled from that location. Data is stored on the servers.

Engineering Services provided by Flanders Electric included:

- *PLC Programming*
- *Configuration of Profibus Communications*
- *WinCC Programming*
- *Start-up and Commissioning Services*

Upon completion of commissioning, the new system improved the Client's capabilities, increased efficiency, and allowed them to provide their customers with real time data from the process.