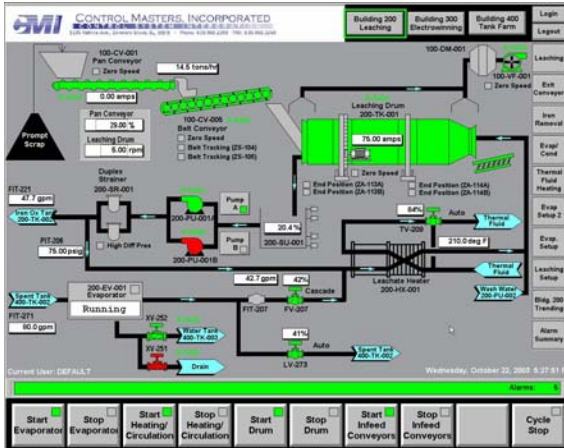


## Process Control with Active Display



### **Technologies**

ControlLogix PLC  
RSView 32  
Active Display Server/Client

### **Services Provided**

Functional Specification Document  
PLC Integration  
Electrical Engineering  
Network Design  
Control Panel Design & Fabrication

### **Project Description**

This project was for a new recycling plant that processes 115000 short tons per year of galvanized steel back into the steel and zinc. The process starts with the galvanized steel going through a caustic bath at 194 deg F. This strips the zinc off of the steel. The zinc solution then goes through an electrowinning operation to remove the zinc from the solution. The zinc slurry is then sent to a centrifuge to turn it back into a powder and finally on to packaging.

The controls are centered around one ControlLogix processor located in the control room with remote I/O drops on ControlNet in each of the three building MCC's. A central server runs RSView32 with Active Display Server. HMI stations are located in each building using an Active Display Client.

All computers are on an Ethernet segment that is connected to the office network via a fiber connection. This connection allow for remote viewing from the office or remotely from the internet. The internet connection also allows engineers to remotely make PLC and HMI changes.

A functional specification document was developed by Control Masters with input from the engineering firm and the customer. After many meeting, discussions and revisions, a document detailing all the functionality of the system was delivered to the customer. This document was used to program the PLC and HMI, to assist in operator training and the factory acceptance test.