Leading Automotive Manufacturer Commissions Phosphating/Electro-Deposition Line

Main Objective:

The Customer requested Outbound Technologies, Inc. to perform the electrical hardwire design engineering, AutoCAD detailing, controls O&M manual engineering, lock-out placard and TMS engineering, HMI software design engineering, PLC software design engineering, and capital material consisting of: (2) Master Control Panels using ControlLogix, 12 Motor Control Centers, 8 I/O Panels using 1771 I/O and 2 Field Operator Panels with a PanelView 1500+, and commissioning for a Phosphating/Electro-Deposition Line at a Metro Detroit automotive painting facility.

Customer Results:

OTI worked in conjunction with the customer to install, troubleshoot and commission the systems

Overview:

❖ Prior to commencing on the software design, OTI's engineer developed and reviewed the system sequence of operations with the customer and end-user. This document outlined the automatic and manual functions of the line, as well as detailing the faults contained within the system and the HMI screens and data logging to be performed by the operator interface.

❖ The Phosphating System was required to automatically control the temperatures, chemistry and fill levels of more than a dozen dip tanks/rinse stations in a continuously operating line. Communication with other process controllers was required.

❖ Scope included the reuse of existing equipment, design of new panels, selection and commissioning of field sensors and providing long term stand-by support.
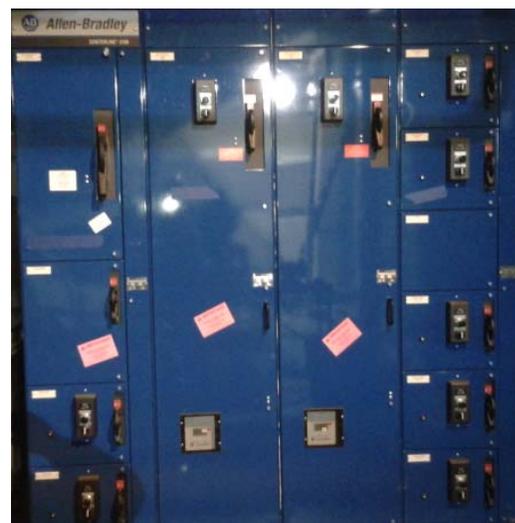
Every owner, manager, and key decision maker is an engineer. They have all been through the ranks and learned this business before they were given the responsibility to manage it. Diversity is also a key to our success. From a technical standpoint specific areas of expertise include: High Temperature applications, Automotive Paint Finishing, Pharmaceutical Automation, Web Handling Applications, Custom Software Solutions, and Safety. As a Systems Integrator, we are a 50/50 split between Continuous Process and Discrete Automation expertise.

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