

Semiconductor Manufacturer Expands Production

MAVERICK recently provided facility management system (FMS) support for a semiconductor manufacturer. The customer and MAVERICK became a cohesive and seamless team, comprised of both on-site and remote resources.

Objective

The objective of the project was to engineer, program, verify and sign off on the functionality of all PLC and RIO panels that control all functions of control for a FAB.

Results

MAVERICK's proactive attitude and willingness to go the extra mile kept the FMS team on schedule, even when faced with equipment delivery delays. The team's ability to work closely with the system owners made them an invaluable resource to the FMS department. Knowledge, teamwork and scheduling helped the customer meet all startup deadlines.

Solution

Over 250 panels were programmed and commissioned as part of this project with platforms comprised of ControlLogix® PLCs integrated with GE Cimplicity HMI.

The system included motors, dampers, fans, flow meters, pumps, valves, position switches, temperature status, PLC health, PLC power and final equipment inspections.

The team configured PLCs and RIOs in the field with proper model and software revision. They also configured IP addresses on PLCs, RIOs and ETAPs.

MAVERICK generated the factory acceptance test (FAT) procedure and thoroughly tested peer to peer communication.

The team performed the FATs on all newly installed PLC and RIO panels. This consisted of checking over the panel hardware for proper installation, testing the primary and backup power feed, verifying IO and communication alarms, sending and receiving IO data to and from the HMI, verifying the HMI presents the user



with proper animations and performing startup tests on equipment with mechanical teams in the field.

MAVERICK tested device level ring communication and verified the redundant messaging worked properly.

During testing, the team worked through various scenarios with the system owners to troubleshoot equipment sequences.

Once the panels were commissioned, the team documented and uploaded all signed off procedures.

MAVERICK verified system alarms with discipline-wide (FMS) alert systems.

The team assisted in project-wide shakedown testing. This included turning off power to an entire building to verify the generators and restart procedures functioned correctly.

The MAVERICK Difference

MAVERICK was able to meet or improve all startup deadlines and assist the system owners with rapidly changing startup requests. Providing system owners with on-site and remote support often allowed startup deadlines to be met or improved within the allotted time. The customer informed MAVERICK that our efforts allowed them to focus on what they needed to do – focus on their customer and their strategic goals. MAVERICK received perfect scores on all customer surveys.



A Rockwell Automation Company

MAVERICK Technologies, LLC

265 Admiral Trost Drive | Columbia, IL 62236 USA

+1.888.917.9100 | Fax +1.618.281.9191

info@mavtechglobal.com | mavtechglobal.com