



Prioritizing a Safe Working Environment Using Low Voltage Preventative Maintenance at a Multinational Technology Company

A SEAM Group Case Study



Overview

An American multinational technology company that focuses on e-commerce, cloud computing, digital streaming, and artificial intelligence needed help maintaining their commitment to worker safety. With hundreds of distribution facilities around the world, this company partnered with SEAM Group to ensure operations at their 615,000 square-foot distribution facility in Tennessee were being performed safely and optimally. SEAM Group would help meet the company's objectives by providing low voltage preventative maintenance (LVPM) and designing and installing an Arc Flash relay system, enabling reliable, efficient, and safe operations for the company's distribution facility.

Situation

The technology conglomerate has always been committed to employee safety. During initial discussions with SEAM Group, they desired developing a safe working environment for their 1,000 employees at their new distribution facility. They needed help creating

sustainable, reliable operations and were focusing on preventative maintenance to minimize safety risks and unplanned downtime. Each hour lost equates to \$100k.

Solution

SEAM Group performed the following services on 4,000A during a 12-hour shutdown window:

- LVPM, which includes:
 - Clean, torque, and tighten bus and lug connections
 - Secondary injection test on circuit breakers
 - Inspect all devices and connections
- Infrared windows installation with 10 Fluke windows per lineup.
- Design, manufacture, install, and test Arc Flash relay system.
- Update Arc Flash data for main switchboard subsequent to relay installation.

- Report out results and make additional recommendations.

While SEAM Group was onsite performing LVPM and an Arc Flash inspection, there were issues with re-closing the 4,000A pressure post testing, which resulted in replacing and testing the new 4,000A switch. SEAM Group was able to provide the team of experts necessary to make the critical repairs, restore power, and resume operations safely at the facility.

Results

SEAM Group continues to provide LVPM and Arc Flash inspections. As a result, the company has seen 100-200cal rated sections of a switchboard reduced to 3-8cal so that facility managers can operate devices in the main switchboard to perform preventative maintenance work in their windows. Previously, they had to conduct a utility shutdown for the entire facility in order to perform their work. With SEAM's group Arc Flash expertise and local knowledge, the company was able to develop a solution in tandem that offers a powerful tool for sustainable, reliable operations and provides incredible results.

Contact us to discuss your LVPM and Arc Flash needs. Contact us today at contact@seamgroup.com | 800.242.6673

