Project Profile

Chemical Industry

Outdated and unsupported hardware necessitated the need for a global manufacturing company to upgrade vital control systems on their production lines. A total of six lines were impacted. Their Siemens MicroMaster drives and TP177B HMIs were obsolete and no longer supported by Siemens. Furthermore, the Siemens S7-300 PLC is obsolete and has been surpassed by the S7-1500 PLC. Industrial Automated Systems enhanced the existing systems with the latest Siemens technology. which is both advanced and reliable. Drive, HMI, and servo controls seamlessly communicate via Profibus.

Our engineers embarked on the project by conducting power and safety assessments and implementing essential upgrades. They identified replacement components needed for the task. The old S7-300 PLC program was converted and debugged to run smoothly on the new S7-1500 CPUs. Outdated MicroMaster 440 drives were swapped out for SINAMICS G120 drives. Servos were transitioned to SINAMICS S120 servo drives paired with SIMOTIC motors. TP177B HMIs were exchanged for SIMATIC Comfort Panels. Additionally, a new ProfiNet network was meticulously designed from the ground up.

Factory Acceptance Testing took place at our Wilson facility. The installation phase was handled by our affiliated company, Triune Electric, enabling us to present a comprehensive turnkey solution. Our engineers oversaw the installation process and provided support, ensuring a smooth startup and commissioning.

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