

**Customer:** Action Electric - Kraiburg

**Location:** Atlanta, GA 30339

**Time & Duration:** 8 Weeks

**Technologies:** Adding PRD Line

Reference: Kraiburg 15-158 / 1.1.8



## Project Description

The main objective of this project is to develop application software for monitoring and controlling a cooling water system. The hardware and the application software requirements for a new PLC & HMI control system to be supplied for the cooling water system (CWS).

- PLC & HMI application software development for cooling water system.
- Profinet interface to VFDs
- Data exchange between Cooling water system and Chiller system in Hardwired.
- Data exchange between (Alarm contact only) Inline filter systems to cooling water system.
- Data exchange between machines and cooling system.

## Hardware for cooling water system

- S7-1200(CPU 1214C, DC/DC/RELAY, 14DI/10DO/2AI).
- Digital Input Module / Output Module (SM 1223, 16DI/16DO).
- Analog Input Module (SM 1231, 8AI).
- Analog Input Module (SM 1231 RTD, 8 AI).
- SINAMICS G120 Power Module PM230.
- SINAMICS G120 CU230P-2 PN.
- HMI TP900 Comfort 9" Touch, 800x480 pixels
- SCALANCE SWITCH X

## Software used for cooling water system PLC

- TIA Portal for PLC and HMI, Version 13
- STARTER V4.4 – used for programming the SINAMICS system

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