

**Customer:** Siemens

**Location:** Alpharetta, GA

**Time & Duration:** 30 Days

**Technical Description:** S5 to S7 Conversion

Reference: Siemens 160002 / 1.1.2, 1.1.4



## Project Description

Convert the provided backup programs ASRS Coil car program provided

- ASRS Coil car program.zip
- The provided back up program has total 19 PLC (18 S5 – 1 S7 PLC)

Convert the provided backup programs – Novelis additional S5 files provided.

- ASRSLW.zip
- ASRSUP.zip
- EAST.zip
- WEST.zip

## INP Tasks

- East crane PLC
- Ran East crane program through the conversion tool
- Imported created source file to a new S7 PLC program
- Compiled the existing source
- Compared East crane PLC to reroll crane PLC regarding the other errors on the error list created via conversion tool.
- Converted TCS with East crane and changed all duplicate FC numbers and FC calls in the East crane program.
- Master PLC
- Ran Master PLC program through the conversion tool
- Imported created source file to a new S7 PLC program
- Compiled the existing source
- Compared the error file from conversion tool with the actual compiling errors and deleting of all S5 communication related function blocks. After that, we had no more compiling errors on the Master PLC.

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- East Crane PLC
- Review communication DBs and FCs
- I/O test and compare program I/O with electrical schematics
- Master PLC
- Review communication DBs and FCs
- Coil Car
- Mill16C program converted from S5 to S7
- Study communication DB between Master PLC to Coil Car PLC

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