INP Reference

WODEGO – Migration of Turbine Controller and Voltage Controller

LOCATION: Neumarkt, Germany

SYSTEM/TECHNOLOGY: Siemens S7-300, ABB Unitrol 1010, WinCC, EPLAN Electric P8

SERVICES: Production monitoring, Commissioning, Project management, Quality assurance, Site management, Documentation, As-built status and data recording, Basic-engineering and pre-engineering, Detail engineering, Installation supervision

INDUSTRY BRANCH/TYPE OF PLANT: Power Generation, Industrial systems, Power plants

CLIENT: Wodego GmbH, Neumarkt

POINTS OF CONTACT



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Tasks

- Exchange of the existing Symadin turbine controller of a Siemens steam turbine for a S7-300 turbine controller
- Exchange of the existing Siemens RG3 voltage controller for an ABB Unitrol 1010 voltage controller
- I&C, electrical engineering and process engineering recommissioning of the turbine

DESCRIPTION OF DELIVERIES AND ACTIVITIES

Software planning

- Programming the turbine controller in STEP 7 according to the specifications of the existing Symadin software
- Configuration of the ABB Unitrol voltage controller according to the specifications of the system documentation
- Adaptation of the WinCC interface

Hardware planning

- Configuration of the S7-300 hardware and voltage controller
- Installation planning
- Documentation of the turbine controller cabinet and the voltage controller cabinet in EPLAN Electric P8

Works test

- Carrying out the works test in INP Deutschland GmbH
- Installation and system commissioning of the S7-300 hardware to be

supplied
- 100% signal test (input channel to WinCC) using our own test cabinets
- Function test of the individual controllers of the turbine controller (speed, power, removal pressure, preliminary pressure) and control limitations on the simulator
- Logging of results

Installation

- Carrying out the removal and installation work

Commissioning

- Writing the commissioning sequence plan and commissioning log
- Carrying out the commissioning of the turbine and the voltage controller under own responsibility according to the sequence plan and logging the individual commissioning steps