



SETTING UP OF COMBINED CYCLE THERMAL POWER PLANT

CFE | SAN LORENZO/PUEBLA | MÉXICO

ENVIRONMENT

Adetech - Industrial Group was hired by "Dragados proyectos industriales de México S.A." (Dragados industrial projects of Mexico S.A.) for the provision of on-site supervision service for technical assistance for the setting up of the distributed control system for the TG to DC Conversion project at the Turbo-Gas San Lorenzo plant in the state of Puebla, Mexico.

It was assisted with two service engineers for 4 months.



EXECUTION

16

WEEKS



WORK TEAM

2

ENGINEER



COMPOSITION

 20% Transfer and good
80% Engineering and support

DETAIL

2005

OBJECTIVES AND GENERAL TASKS OF THE PROJECT

Tasks performed during the Precommissioning, Commissioning, PEM and Performance test:

- Coordination of stampings and loop tests for 3 and 4 gas turbines. Towards the Siemens TXP system. Point-to-point testing between the Siemens TXP system and the main Metso Automation distributed control system.
- Coordination of stamping and loop testing of HRSG 1 and 2 heat recovery units, provided by Cerrey, to the Metso Automation distributed control system.
- Coordination of stamps and tests of steam turbine loops. Towards SDC PCS7 from Siemens. Fiber optic link test with 115 Mw station.
- Testing of all signals from the Motor Control Center provided by Areva.
- Point-to-point testing between PCS7 and Metso Automation.
- Coordination of stampings and tests of loops of Siemens AVR system. Towards PCS7 system also from Siemens.
- Development and programming of various modifications in controller and SCADA system, belonging to the Water Treatment Plant, both from the Rockwell Automation family.
- Modbus link tests between Rockwell Automation and Metso Automation systems.
- Testing of signals coming from the compressor room (Atlas Copco) to the Metso distributed control system.
- Testing of signals and protections coming from the aerocapacitors to the Bentley Nevada system, as well as the link of these equipments with the DCS.
- Testing of signals and protections from the air coolers (Bentley nevada).
- Operation tests of the crystallizing evaporator system provided by Condorchaim.

- CEMS system tests measuring gases released into the atmosphere.
- Logic tests in drainage pits, balance and neutralization.
- Endress + Hauser analysis and sampling system tests.
- Chemical dosing system tests.
- Logic tests in drain valves.
- Tests to the ejector system.
- Feed water system tests.
- Condensate system tests.
- Bypass systems tests.
- Testing of UPS systems and battery chargers.
- Test of main and secondary transformers with Sergi system.
- Firefighting system tests.
- SOE signal test.
- Loop test with the national "Centro Nacional de Control de Energía CENACE" (National Center for Energy Control) network.

All tasks were coordinated and reported to the instrumentation and control area manager DEPIM. In turn, each test was witnessed by CFE commissioning personnel.


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