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VIBRATION MONITORING AND CONTROL SYSTEM INSTALLATION

EL BRACHO Thermal Power Plant - BHGE - YPF LUZ - ARGENTINA

ENVIRONMENT

The YPF Luz Generación Tucumán Complex is located in El Bracho, Cruz Alta, Tucumán. The Complex currently has an installed power of 1103 MW, which is equivalent to three times the energy demand of Tucumán. The complex is made up of 2 combined cycle thermal power plants fueled by natural gas: Tucumán Thermal Power Plant and San Miguel de Tucumán Thermal Power Plant, and El Bracho Thermal Power Plant, which consists of a thermal power plant at open cycle, whose adequacy to become a combined cycle is under construction.



EXECUTION

8

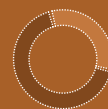
WEEKS



WORK TEAM

6

ENGINEER/TECHNICIAN



COMPOSITION

 70% Labor
 30% Materials

DETAIL

2019

PROJECT DESCRIPTION

1. Survey, a detailed survey was carried out in conjunction with BHGE personnel, to confirm the received engineering and verify some details about the tasks to be carried out.

2. Control System (Mark Vle), de-energize existing system, Identification and labeling of wiring, Disconnection of cable terminations, removal of existing cabinets and transfer to the YPF warehouse, laying of new communication conductors, mounting and fixing of a new rack, integration of the new Mark Vle control system and conductor classification. Verification of loops, commands and transmitters.

3. Vibration Monitoring System (Bn3500), the installation of 4 Junctions Boxes, corresponding conduits and BN3500 rack assembly were carried out, laying and provision of new conductors, connection and field tests between installed sensors and the rack. The system is in charge of monitoring the axial and radial vibrations of the TG02, through a dedicated software equipped with 15 redundant sensors.

4. Rack and FO interconnection between PEEC and control room, installing a new rack, merging FO with its respective certification and installation of distribution boxes and switches. Supply and Laying of 12-wire Multimode FO to the control room of the plant, communicating with the entire generation control system of the plant.

5. On-Site Testing Support the client requested part of the staff to assist in the Setting up of the system and to make the necessary adjustments or corrections during the tests.

