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ASSEMBLY OF NEW SPEED REGULATORS AND ASSISTANCE TO SETTING UP NIHUIL I Hydroelectric Plant - BHGE - PAMPA ENERGÍA - ARGENTINA

ENVIRONMENT

The El Nihuil dam, whose plant is called Nihuil I, is located in the Cuyo region of western Argentina in the province of Mendoza and at the outlet of the Atuel river basin. The dam is made of concrete with a curved axis with a height above the riverbed of 25.00 m and a length of 465.00 m, which allows it to store 263.13 hm3. The average annual flow of the river is 35.5 m3/s and floods of up to 230.00 m3/s have been observed. The plant has 4 Francis turbines with a total unit capacity of 18.56 MW and an average annual generation of 365.00 GWh.





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. Disassembly, disconnection and dismantling of the Existing NEYPRIC DIGIPID 1000 Control System. Identification and labeling of the power, command and control wiring of the existing Panel, for its subsequent removal. Valve position indicating device disassembly. Pilot valve removal (Alstom TR10).

3. Assembly, of a new board with NEXUS System, ducting and laying of cables for new field instruments, laying of signal cables from new instruments to the NEXUS control panel. Installation of integrated speed measurement set, (split sprocket, 3 speed sensors with support and adaptation set). Installation of the output servomotor position feedback kit (MLDT). Bosch 4-20 mA Ng10 valve installation.

Installation of pressure transmitters. Manufacture of Machining of Aluminum Cover for the installation of Level Transmitters. Installation of GPS antenna. Installation of the Operation and Engineering Station in the Control Room, power cable laying and NETWORK for the communication switch and interconnecting the current control system with the entire 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.





