
Provision of Technical & Advisory Services for the Overhaul Maintenance of the 470MW Steam Turbine Generator at Quezon Power Plant, Philippines.

During the month of April 2005, PearlStreet Energy Services (PES) again had the opportunity to work with the Queensland Power Generation division of Engineering Consultancy, Sinclair Knight Merz (SKM) at the Quezon Power Plant in the Philippines.

The work comprised the provision of Quality Assurance Inspection and Surveillance and Technical Advisory Services for the Electrical Plant, which was overhauled during the major outage of the 470MW Unit at Quezon Power Plant.



QPL's 470MW Quezon Power Station

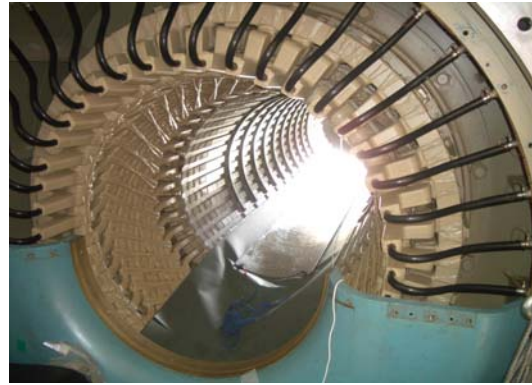
The scope of the technical advisory services provided by PES concentrated specifically on the electrical component of the major outage and included the following:

- Quality Surveillance of the generator and other associated electrical plant, which were overhauled during the outage.
- Performance of Quality Assurance inspections on the generator and other related electrical equipment.
- Witnessing the Electrical Testing of the Generator.
- Review and analysis of test results.
- Review and analysis of test results from other electrical tests performed on associated plant during the outage.

This outage was the first time since the plants construction that the steam turbine and associated electrical generator have undergone major maintenance and inspection. The high pressure (HP) and intermediate pressure (IP) turbine rotors were removed for inspection and testing as was the main generator field winding and the outage was completed in record time.



590MVA GE Generator Field Winding



590MVA GE Generator Stator Winding

The Unit was successfully returned to service on the 9th May in a record breaking 29 days.

PES was once again pleased to have had the opportunity to work with SKM's Power Generation team in the successful completion of this prestigious O&M project, and look forward to future work opportunities with SKM.