

Date • 11 June 2011  
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To whom it may concern,

NEM has successfully executed two contracts for the design, supply, construction, commissioning and put into successful operation two Heat Recovery Steam Generators (HRSGs) for each of the two Combined Cycle Power Plant projects in Egypt, **EL-ATF** and **SIDI KRIR**, each 750MW (two CTGs, two HRSGs and one STG).

“EGYPTROL, Egypt Engineering Services, S.A.E.” was awarded a sub-contract for providing HRSG instrument calibration, HRSG equipments and systems commissioning, start-up, and operation in addition to monitoring and recommending action for the HRSGs water and steam chemical quality, up to turning the plant over to the Owner.

EGYPTROL’s awarded scope commenced with a contract for one month in March 2010. EGYPTROL provided experienced team members and supported them with proper head office support. This contract was then extended until May 2011. EGYPTROL conducted the services efficiently and with high quality that exceeded NEM’s expectations.

The HRSGs comprised HP system, reheater system, IP system, LP system, condensate preheat system, steam/water sample system, flue gas analyzing system, one de-aerator including feed water storage tank, chemical dosing system, and two condensate preheat recirculation pumps. The HRSGs were naturally circulating, each 340 T/Hr @ 128 Bar & 566C°.

EGYPTROL staff had conducted the Pre-commissioning & commissioning phases including:

- All function test with the DCS staff (Permissive and interlocks)
- Steam blow out
- Safety valve tests
- Operation in bypass operation up to unit synchronization.
- Partial / Full load operation.
- Operational Tests such as runback, partial/full load rejection, etc.
- Complete the reliability test.
- Support for the performance test.
- Support the DCS staff for tuning and optimization.
- Lead the operation for the HRSG.
- Support vendors in commissioning of chemical dosing system, steam/water sampling system, safety (relief) valves and flue gas analyzing system.
- Commissioning and operation of the condensate preheating system.
- Complete the TURN OVER PACKAGE (TOP) to transfer the plant operation to the client.
- Perform instrument calibration for pressure transmitters, pressure gauges, flow transmitters, temperature gauges and temperature transmitters.
- Support in closing punch list items.

During this period EGYPTROL staff demonstrated deep technical understanding of the project activities and showed valuable experience practices to execute, coordinate and close activities in a professional and safe manner.

NEM confirms the outstanding professional performance of EGYPTROL staff in conducting the services and recommends the use of EGYPTROL services in similar projects.

Kind regards,  
NEM Industrial & Utility Boilers

  
Daniël Ubbink  
Construction manager NEM Hengelo for Sidi Krir and El Atf projects