

101552-ELE-1OS-E-2008
Field & Control Room Operation Engineer

Holds a B. Sc. in Electrical Engineering and has about 13 years hands-on experience working as Field & Control Room Operation Engineer at Talkha Power Station.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 18/11/1985
Gender : Male
Marital Status : Married
Residence : Mansoura

EDUCATION

: B. Sc. in Electrical Engineering, Mansoura University, 2008

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet
: Maximo program

TRAINING COURSES AND CERTIFICATIONS

: Fire fighting course (Feb. 2016).
: Operation of Gas turbines system controller using simulator system by Middle Delta Electricity Production Co. (2010).
: Maintenance of Gas turbine unit controls by Middle Delta Electricity Production Co. (2009).
: Protection system of gas turbine unit by Middle Delta Electricity Production Co. (2009).
: PLC (programmable logic controller) at Mansoura University (2008).
: International Computer Driving License (ICDL) (2006).
: Summer trainings in Middle Delta Electricity Production Co. (2006 & 2007).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2009 till now
Employer : Middle Delta Electricity Production Co.

- Project** : Talkha Power Station:
- New Talkha 750MW Combined Cycle Project located within the boundaries of the existing Talkha Power Generation Compound. The site is located in Talkha City, Dakahlia Governate, on the west Bank of the River Nile, Damietta Branch, Egypt.
 - The facility is designed to include a power block consisting of two 250MW (nominal, ISO) combustion Turbine generator (CTG), each feeding exhaust gases to its respective heat recovery steam generator (HRSG).
 - Steam from the two HRSGs is fed to one 250MW (nominal), re-heater condensing steam turbine generator (STG). The facility's net output is 750MW (nominal, ISO).
 - This output is achieved by burning natural gas in the combustion turbines with no supplementary firing in the HRSGs. Nitrogen oxides emitted are controlled by dry low nitrogen oxides combustors.
 - An inlet air filtration system is included to supply suitable filtered combustion air to the CTGs. The steam exhausted through the steam turbine is dumped into a once-through cooling single-pass divided water-box condenser.
 - Power is generated at manufacturer's standard voltage in the CTGs and the STG, stepped-up through main transformers, and fed to the utility grid via the existing 220KV, gas insulated switchgear (GIS) switchyard. The Power Plant cooling water is withdrawn from Damietta Branch of the Nile River.
- Job title** : Field & Control Room Operation Engineer
- Job Description** :
- Participate in construction, commissioning and start-up of SIEMENS V94.3A gas turbine.
 - Operation of 2x250MW SIEMENS V94.3A gas turbine Teleperm XP and TS 3000 control systems and associated Auxiliary DCS.
 - Monitoring the operation of power generating units to ensure reliable and efficient power generation and to detect evidence of operating problems.
 - Preparing procedures for units start-up, shutdown and preparing for planned maintenance.
 - Performing the units start-up and shutdown as per assigned targets.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Diagnose and resolve day to day operational problems.
 - Raising defects for equipment & doing isolation and de isolation procedures according to the work permit.
 - Perform high & medium voltage switching operations.
 - Handling plant firefighting equipment and network.
 - Control auxiliary equipment, such as pumps, fans, compressors, condensers, feed water heaters and filters to supply water, fuel, lubricants, air, or auxiliary power.
 - Take regulatory action, based on readings from charts, meters and gauges, at established intervals.
 - Open and close valves and switches in sequence to start or shut down auxiliary units.
 - Record and compile operational data by completing and maintaining forms, logs, or reports.
 - Make adjustments or minor repairs, such as tightening leaking Gland and pipe joints.

- Regulate equipment operations and conditions, such as water levels, based on instruments and computers data.
- Inspect records or log book entries or communicate with plant personnel to assess equipment operating status.
- Start or stop generators, auxiliary pumping equipment, turbines, or other power plant equipment as necessary.
- Control power generating equipment, including boilers, turbines, generators, or reactors, using control boards or semi-automatic equipment.
- Communicate with systems operators to regulate and coordinate line voltages and transmission loads and frequencies.
- Adjust controls to generate specified electrical power or to regulate the flow of power between generating stations and substations.
- Control generator output to match the phase, frequency, or voltage of electricity supplied to panels.
- Place standby emergency electrical generators on line in Emergencies and monitor the temperature, output, and lubrication of the system.
- Receive outage calls and request necessary personnel during power outages or emergencies.
- Work as a Field and Monitor Engineer for HRSB which responsible for getting release of divertet damper to open.
- Responsible for HRSG start from cold and from hot case and stay running on bypass or the steam turbine also working on HRSG auxiliaries which consist of daerator and feedwater pumps and condensate pumps and other pumps.