102952-MEC-1O-E-2006
Mechanical Shift Charge Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 9 years hands-on experience in power plant operations of Gas turbines, Steam Turbines and Boilers.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	22/03/1984
Gender	:	Male
Marital Status	:	Married
Residence	:	Currently KSA

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2006

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: On-shore training of gas turbine Siemens v94.3A each one produces 250MW (Nubaria).
: On-shore training of gas turbine GE 9FA each one produces 250MW – commissioning and start-up and first fire (Nubaria).
: On-shore training of Steam turbine operation and maintenance by Mitsubishi Heavy Industries Company (Nubaria).
: On-shore training of fuel oil cleaning methods by Intec Company (Nubaria).
: On-shore training of ALSTOM HRSG (Nubaria).
: On-shore training of high and medium voltage (500KV/220K/6.3KV), Nubaria.
: Operation on-shore training of Alspa p320 distributed control system (DCS) by ALSTOM Company (Nubaria).
: On-shore training of gas turbine Siemens SGT6-5000(5)F each one produces 235MW (Nubaria)
: On-shore training of gas turbine Siemens SSTG – 4000DN each one produces 225MW (Nubaria).

: On-shore training of HRSG BHI (Korean Company) each one produces 350 tph of steam (KSA).
: Simulator training for T3000 (Siemens control system), Florida, Orlando – USA.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2013 till now
Employer : NOMAC O&M Company
Project : Qurayyah Independent Power Plant (QIPP) (4100MW (18x227MW)), KSA
Job title : Shift Charge Engineer
Job Description :

- Construction, First Firing, commissioning and start-up for QIPP combined cycle which consists of:
  - 12x229MW SGT6-5000(5)F Duel fuel, Ultra Low NOx Siemens Make Gas Turbine.
  - 12 x Horizontal HRSG without duct firing at two pressure levels BHI Make HRSG.
  - 6x226MW (SSTG – 4000DN) Siemens Make Condensing Steam Turbine Generator.
  - Siemens T3000 control system.
- Natural Gas Station consists of:
  - Two Emergency shut-down (ESD) valves.
  - Two Dry scrubbers.
  - Two Filter separators.
  - Gas metering station.
  - Gas chromatograph analyzer.
  - 13 Atlas Copco gas compressors.
  - Seven Dew Point heater type.
  - PRV area contains seven lines.
- Water Desalination Plant (Reverse Osmosis) which consists of:
  - RO plant (3 streams x 241 m^3/h), each stream consist of 2 passes with the related chemical dosing system (SMBS, Sulfuric acid, Caustic soda, Anti scalant).
  - MB units (3 x 95 m^3/h) provided with Regeneration & Neutralization systems.
  - Traditional sea water pretreatment system (1400 m^3/h) including DAF (Dissolved Air Floatation), DMF (Dual Media Filter) with its chemical dosing system (Coagulant, Flocculants, and Disinfectant).
- Comply with safety rules and regulations. Be fully aware of the safety hazards in the plant.
- Familiar with plant O&M agreements, P&IDs, SOPs, Work instructions, Operation and control logics, emergency operation procedures, as well as regulatory requirements and any other related documents.
- Ensure that the plant is operated to the established standards with minimum risk to men, machine and materials; comply with safety and environmental standards.
- Coordinate with all other departments all activities that are related to plant operations during the shift and comply with safety rules and regulations. Have a complete understanding of the permit to work system applied to the plant. Issue and cancel permits to work per authorization. Coordinate activities involving plant chemistry with the

Chemist.

- Follow preset operational schedules to fulfill the targeted production availability safely and efficiently. Coordinate all activities or changes in plant status with operations manager.
- Make quick, on the spot decisions to correct abnormalities or disturbances. Take corrective actions during a state of emergency. Supervise the startup checklist; interlock checks, protection tests, non-routine activities like preservation, acid cleaning etc.
- Upon authorization, issue work permits for maintenance section involved. Have a complete understanding of the permit to work system procedure applied to the plant. Issue and cancel permits to work per authorization. Normalize the equipment after release and perform necessary testing to check the equipment or system after maintenance.
- Monitor the overall status of the plant and summarize activities in the log book. Fill daily plant status reports and relay all activities that occurred during his shift.
- Maintain staff evaluation records, vacation schedules etc. prepare evaluation forms for personnel requirement.
- Prepare incident / accident reports and other reports required by the departments and submit to the concerned authorities within stipulated time period. Keep accurate records on all activities performed in the plant on regular basis.
- Assist in the training and familiarization of new personnel in the shift.
- Study and suggest for any modifications which can improve the plant efficiency.
- Ensure Environmental Aspect-Impact and Hazard Risk Assessment are carried out, controlled and updated.
- Implement, monitor and report IMS objectives, Targets and programs.
- Report deviations in Integrated Management System identify root cause and implement corrective and preventive actions.
- Ensure identification of root cause for the identified non conformances/ deviations and to implement corrective actions/Preventive actions.
- Identify the competency gap for their subordinate personnel and implement necessary actions.
- Carry out periodic performance evaluation of reporting employees.
- Provide on-the-job training to new employees and evaluate their OJT Performance.
- Identification, documentation and control of hazards in assigned work area.
- Ensure aspects identified are monitored and operational controls are followed.
- Control emergencies, incidents and near misses.
- Communicate with the load dispatch center.

Dates : From Nov. 2008 till May 2013
Employer : Middle East Delta Company for Electricity Production
Project : Nubaria Combined Cycle Power Plant 2250MW (3x750MW)
Job title : Control Room Operator / Shift Supervisor
Job Description :

- Two modules, each module consists of:
  - Two Siemens CTG 250MW type V94.3A.
  - Two horizontal Alston HRSGs.

- One Mitsubishi STG 250MW (HP, IP, LP).
- 220KV Switchyard.
- 500KV Switchyard.
- Four tie transformers 500/220KV.
- Medium and low voltage switchgears.

- One module consists of:
  - Two GE CTG 250MW type 9FA.
  - Two horizontal STF HRSGs.
  - One ALSTOM STG 250MW (HP, IP, LP).
- Plant Shift Supervisor (from Oct. 2011 till May 2013):
  - Over all in charge of 1500MW & 2x750MW combined cycle power plant during shift.
  - Leading a group of engineers in effective handling of shift operations.
  - Responsible for safe & Economic operation of the power plant.
  - Planning for maintaining power generation in line with the dispatch requirements of the State LDC.
  - Complying with the legal requirements of the statutory authorities.
  - Responsible for maintaining and managing Permit to Work system effectively.
  - Operation and isolation of electrical systems consisting of 220KV switchyard, 500KV gas insulated substation, 6.3KV / 400V Station and Unit switchgear, Station DC and UPS Systems.
  - Isolations and normalizations of 220KV transmission lines and marinating switching log.
  - Analyzing and reporting to the top management regarding the shift activities.
  - Issuing of Work permits and Defect management in a computerized atmosphere using SAP.
  - Planning of start-up and shutdown activities of Gas Turbines, steam turbine and HRSGs.
  - Playing the role of Emergency controller during plant onsite / offsite emergency situations as per the emergency procedure of the company.
  - Preparing daily activities report as a bulletin and other generation reports.
  - Maintaining ISO 9001/14001/18001 system compliances in operational areas.
  - Making reports related to Incidents, Near miss incidents, Incident analysis, and analyzing the root causes of tripping.
- Control Room Operator (from Nov. 2008 till Oct. 2011):
  - Construction, First Firing, commissioning and start-up for Gas turbine (GE 9FA) in Nubaria Power Plant (III).
  - Safe & economic operation of entire power plant, maintaining high PLF, low heat rate and less auxiliary consumption.
  - Routine operations such as start-ups, planned shutdowns, maintaining parameters during normal operation.
  - Normalization of all work permits and makes the standby equipments available.
  - Operation and safety measures in NAPHTHA operations.
  - Start-up of Gas turbine, HRSG, Steam turbine and its auxiliaries.
  - Operation of balance of plant such as DM plant, Fire water system Compressors, Gas and naphtha fuel systems etc.

  - Operation and isolation of electrical systems consisting of 220KV switchyard, 6.3KV / 400V Station and Unit switch gear, DC and UPS Systems.
  - Routine operation checks and condition monitoring of equipments.
  - Involving in Day-To Day Troubleshooting, Operation and Maintenance of the Equipments.
  - Assist the Plant Shift Manager in shift activities.
  - Monitoring the performance of various equipments.
  - Interactions with Load dispatch and fuel supply agencies.
  - Safety of personnel and equipment.
- Jobs handled:
  - Ensuring smooth and efficient operation of the whole station.
  - Actively participated in Gas Turbine HGPI and Combustion inspections.
  - Permit to work system, Isolation and Normalization of equipments.
  - 400 V, 6.3KV Switchgear, 220KV Switchyard, 500KV GIS operations.
- Gas Turbine (Siemens V94.3a): Capacity: 4x250MW: Control System: TXP, Fuel: NG/FUEL OIL.
- Steam Turbine: Capacity: 2x250MW, Mitsubishi (Triple pressure with 100 % Turbine bypass System), Control System: Alspa 320.
- Heat Recovery Steam Generators (High Pressure): Capacity: 2x350 tph (Triple pressure unfired boilers), Control System: Teleperm XP DCS supplied by Siemens, Package: ALSTOM.
- Gas Turbine Frame 9FA: Capacity: 250MW, GE, Control system: Mark VIe, Fuel: NG/FUEL OIL.
- Gas Turbine (Siemens SGT6-5000F): Capacity: 12x227MW, SIEMENS, Control System: T-3000, Fuel: NG/FUEL OIL.
- Steam Turbine (SIEMENS STG6-400DN): Capacity: 6x227MW, SIEMENS, Control System: T-3000.