

105718-ELE-1OS-E-2011
Central Control Room (DCS) Operation Engineer

Holds a B. Sc. in Electrical Engineering and has about 7 years hands-on experience working in operation, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/10/1989
Gender : Male
Marital Status : Married
Residence : Dakahlia

EDUCATION

- : B. Sc. in Electrical Engineering, Mansoura University, 2011
- : Diploma in Electrical Power System "Renewable Energy", Mansoura University, 2014
- : Currently studying for Master Degree in Electrical Power System, Mansoura University

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : On-Shore Training by Termomeccanic Co. in Banha Training Center (Jun. 2015) for:
 - HP/IP – LP Boiler Feed Pumps.
 - Condensate Extraction Pumps.
- : Steam Turbine Generator & Condenser Off-Shore Training Course by ANSALDO ENERGIA CO. in Ansaldo Training School in Genova - Italy (Oct./Nov. 2014).
- : Training Certificate in SCADA for Generator Protection & Synchronizing System by SEAT in Ansaldo Training School in Genova – Italy.
- : Certificate in Harmony & PGP Base – Configuration by ABB CO. in Genova – Italy (Nov. 2013).
- : MS9001FA+e Speed-Tronic Mark VIe Gas Turbine Operations On-Shore Training by GE CO. in Banha Training Center (Apr. 2013).
- : Training at United Industrial El Sewedy Co. (Jul. 2009).

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- : AutoCAD (2D).
- : Programming Logic Control (PLC).
- : Matlab Advanced programming language and simulation system.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2013 till now
- Employer** : Middle Delta Electricity Production Company
- Project** : Banha Power Station Combined Cycle 750MW
- Job Description** : Central Control Room (DCS) Operation Engineer for:
- 2x250MW Gas Turbine (GE Frame 9FA - DLN2.6+ Gas Turbine controlled by SpeedTronic Mark VIe).
 - Two Horizontal Ansaldo Caladai HRSGs (three Levels + RH HRSG).
 - One Ansaldo Energia STG 250MW (HP / IP / LP).
 - GIS 220KV (Monitoring and Maneuvering with Dispatch).
 - Medium and low Switch Gear.
 - Module auxiliaries.
 - Following Distributing control system "YOKOGAWA DCS".

- Dates** : From May 2012 till Mar. 2013
- Employer** : Middle Delta Electricity Production Company
- Project** : Talkha Power Station 300MW
- Job Description** : Service Operation Engineer for:
- 8x25MW GE Gas Turbine.
 - 8 HRSG.
 - 2x50MW Steam Turbine.
 - Six transformers 15.75 / 220KV.

- Field of experience** :
- Monitoring the operation of power generation unit to ensure reliability and efficiency of power generation.
 - Coordinate with dispatch center according to network demand.
 - Performing the unit start-ups and shutdowns per assigned targets.
 - Perform high/medium voltage switching operations.
 - Troubleshooting, 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 work permit.
 - Handling plant fire fighting.
 - Participate in Construction, Commissioning and Start-up (First Fire – Unloading test – Housing Test) for GE Gas Turbine (2x250MW) Type MS9001FA+e (Mark VIe Control).
 - Participate in Construction, Commissioning and Start-up for Ansaldo Caldaie HRSG of Benha 750MW.
 - Participate in Construction, Commissioning and Start-up for Ansaldo Energia steam turbine "STG 279MW (HP/IP/LP)".
 - Participate in Construction, Commissioning, Steam blow, by-pass Operation of Ansaldo Energia steam turbine "STG 279MW and Ansaldo

Caldaie HRSG.

- Steam Turbine Operator for Ansaldo Energia steam turbine "STG 279MW".
- Operating the boiler properly regarding:
 - Drum level, steam flow and feed water flow rate.
 - Metal temperature of super-heaters, Re-heaters and water drum.
 - Outlet steam properties and inlet feed water properties (temperature, pressure, PH No, conductivity and percentage of silica).
 - Furnace pressure, Inlet air and outlet flue gases properties (temperature, pressure, excess air percent and (CO, CO₂, O₂) percent.
- Operating all boiler equipments from DCS such:
 - HP / IP Boiler Feed Water Pump.
 - LP Boiler Feed Water Pump.
 - Recirculation Pump.
- Worked as Field Operator doing the following:
 - Observe operating conditions of all boiler equipment's.
 - Keep readings of equipment parameters (bearing temp, vibration, etc.).
 - Inform shift supervisor with any field troubles or break downs.
 - Isolate any equipment manually as required in work orders to hand over to maintenance.
 - De-isolate the equipment, test operation to take over after finishing maintenance.
- Steam Turbine Experience:
 - Safe start-up and shut down and active Participation in shutdown activities and start-up activities.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Ensuring Electrical & Mechanical operating Safety while Issuing Work Permit.
 - Co-ordination with Maintenance team at the time of Annual inspection and shut down.
 - Generators hydrogen charging and discharging activities.
- Monitoring all equipment's from DCS such:
 - Lube and jacking Oil System.
 - Seal System.
 - ST Bypass system.
 - Bearing Vibration and Temperature.
 - Generator H₂ and Seal Oil System.
- B.O.P Experience:
 - Perform and assist to achieve the optimum conditions for the unit operation for HP steam, HRH & CRH steam, and LP steam lines as B.O.P Operator from field and DCS.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Isolate any equipment manually as required in work orders to hand over to maintenance.
 - De-isolate the equipment, test operation to take over after finishing

- maintenance.
- B.O.P including next equipment's:
 - Pump house (Three circulating water pumps + Two service water pumps).
 - Bearing flushing water skid + sump pumps.
 - Condensate water system.
 - Feed water system (with one start-up electrical pump + two turbine feed water pumps).
 - Demi transfer system and condensate transfer system.
 - Firefighting system.
 - Gas Turbine Experience:
 - Gas Turbine "OFFLINE & ONLINE COMPRESSOR WASHING".
 - Performance monitoring and tracking, Assisting maintenance in their day to day activities Daily generation report preparation, record keeping, Ensuring proper isolation and issuing work permit, ensuring safety of plant, co-ordination with external agencies like PEGASCO and inspection and commissioning GE team.
 - Safe start-up and shut down and active Participation in shutdown activities and start-up activities.
 - GAS Turbine & Steam Turbine Generators hydrogen charging and discharging activities.
 - Gas Turbine transfer from liquid oil to gas fuel or from gas fuel to liquid fuel.
 - Familiar with Mark 6E.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Ensuring Electrical & Mechanical operating Safety while Issuing Work Permit.
 - Co-ordination with Maintenance team at the time of Annual inspection and shut down.