

105358-ELE-1OS-E-2002
Operation & Commissioning Engineer

Holds a B. Sc. in Electronics Engineering and has over 17 years hands-on experience in Combined Cycle Power Plants, Sea Water Desalination Plant, Utilities, Balance of Plant BOP, Solar Power Plant Commissioning and Operation.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 12/03/1980
Gender : Male
Residence : Mansoura

EDUCATION

: B. Sc. in Electronics Engineering, Mansoura University, 2002

LANGUAGES

Arabic : Native Language
English : Good
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: MBA studying (in progress).
: Studying PLC S7-300 (in progress).
: Industrial fire fighting level 1.
: Standard First Aid - CPR/AED.
: Instructor - Led Remote Training Session.
: Water Steam Cycle Chemistry.
: Designated Person.
: Working Safely - IOSH.
: MED Sea Water Desalination Operation.
: Training from Siemens on the GTG operation (Jul. 2007).
: First aid training (Nov. 2009).
: GE training on the operation of GTG, STG (Jan. 2010).
: HHI training on the HRSG, IA Compressors, BSDG operation (Jul. 2009).
: GTG AND STG OPERATION.

- : ERT (FIRE FIGHTING AND RESCUE TRAINING).
- : Training from Fire Station Training Center at Dammam (Fire Fighting, Emergency Response Team ERT).
- : Safety Rules Training from Online Instinct Training Site.
- : Training Course from Jomel Company as a Designated Person (DP).
- : Low Voltage operation, High Voltage operation, Boiler Chemical Treatment operation.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2019 till Sep. 2019
- Employer** : GE subcontractor NES
- Project** : 1400MW Waad Al-Shamal Combined Cycle Power Plant, KSA:
- Gas Turbine: 960MW 4x240MW GE 7FA.05, DLN 2.6 with Mark VIe.
 - Steam Turbine: 390MW GE.
 - HRSG: 4x254 TPH, 144 bar (max), 562oC Alstom.
 - SOLAR Power Plant: 50MW (50MW Solar Power Plant).
 - Switch Gear: 18KV, 13.8KV HV and 415V LV PMCC, MCC Panel.
- Job Description** :
- Responsible for lube oil lines flushing and steam blow for steam header lines monitoring the Bearing vibration and temperature, lube oil and HP /MP/LP steam temperature, closed cooling pipe lines charging and filling, lube oil tank separation units, steam turbine generator Hydrogen/CO2/AIR purging and pressurization, MSCV cold and hot commissioning and all routine tests on lube oil and hydraulic oil pumps and MSCV, over speed test, generator earth leak test.
 - Handling commissioning and operation activities of 4x240MW GE 7FA.05 Gas Turbine, 4 x ALSTOM 254 TPH HRSG's 390MW GE Steam Turbine and all BOP Systems.
 - Conducting various test in Gas Turbine like Dry Low NOx (DLN Tuning), Reliability Test Run (RTR), Automatic Generation Control (AGC), Over Speed Test, Reactive Power Test.
 - Handling Shift Operations of Gas Turbine, Steam Turbine, HRSG's Gas Compressor and all BOP Systems.
 - Carried out commissioning and operation activities of GE 7 FA0.5 GAS Turbine like No load and Load trail for all drives of GT, Water wash, CO2 Fire protection checks, Lube oil flushing, firing, synchronization.
- Dates** : From Jan. 2018 till Nov. 2018
- Employer** : [EGYPTROL](http://www.egyptrol.com), GE Energy Subcontractor
- Project** : West Damietta CCPP 750MW
- Job title** : Operation & Commissioning Engineer
- Job Description** :
- GE Company one steam turbine (Model 324H / H2 cooling / 250MW) responsible for lube oil lines flushing and steam blow for steam header lines, monitoring the Bearing vibration and temperature, lube oil and HP / MP / LP steam temperature, closed cooling pipe lines charging and filling, lube oil tank separation units, steam turbine generator Hydrogen/CO2/AIR purging and pressurization, MSCV cold and hot commissioning and all routine tests on lube oil and hydraulic oil pumps and MSCV, over speed test, generator earth leak test & four GE gas turbine (9E/125MW) and four GE heat recovery steam generators HRSG

(Separate HP, Double flow LP, D202).

- Control and monitoring the unit's safe operation & assist in the Commissioning job of instrument air lines flushing & MOV's and CV's cold/hot loop test & HP, LP LT's, TT's, PT's Commissioning test & Diverter Damper hydraulic oil Flushing and open, close, fast close Test & HRSG hot passivation & HRSG (dry, wet Preservation) & steam blow of STG, HRSG Steam lines & ACC chemical cleaning, hot cleaning & HP, LP, condensate, closed cooling pumps Solo run test and trip/change over test & STG load percentage reject test & Plant Reliability test & supervise local plant operators and training of shift staff & Safe start-up and shutdown of plant, load changing, directing personnel to immediately faults.
- Develop and follow plant operating procedures, using logs, charts, meters, perform troubleshoot problems discovered during the shift.

Dates : From Jul. 2009 till Feb. 2017
Employer : Jomel Company by GDF, Saudi Arabia
Project : GDF – Suez Energy International, MARAFIQ (IWWP), Jubail Electricity Power and Water Company: private O&M under Marafiq Company
Job title : Operation Engineer
Job Description :

- Control and monitoring the units safe operation and supervise local plant operators and training of shift staff.
- Safe start-up and shutdown of plant, load changing, directing personnel to immediately faults, maintain shift.
- Develop and follow plant operating procedures.
- Verify the satisfactory operation of equipment using logs, charts, meters.
- Assist in the-job training of other shift members.
- Perform troubleshoot problems discovered during the shift.
- Using (DCS controls) Windows XP operating systems, 8 - GE Gas Turbines GE- GT- 7FA /180MW, Heat Recovery Steam Generators HRSG Doosan - 450T/h, BPST Back Pressure Steam Turbine GE- STG-250MW, Dearating Condensate Steam Turbine GE- STG- 350MW, responsible for Operation, Monitoring, Controlling, H2/CO2/AIR purging and pressurization, MSCV cold and hot commissioning and all routine tests on lube oil and hydraulic oil pumps, over speed test, generator earth leak test and Operation of GIS (400KV), Sea Water Desalination-MED Type Sidem – 6.5 MIGD, Demin plant, Remineralization, Hypochlorite plants, N2, H2, CO2 Generation Station, NGPRS natural gas pressure reduction station, Fuel Gas Compressors /Atlas Copco & auxiliary equipment (Sea Water Intake & closed cooling water system, air compressors, Maintaining data base.
- Issuing completed PTW to authorized applicant and ensuring that he is fully understands the contents and limitations.
- Ensuring compliance monitoring take place after issue of PTW.

Dates : From Jan. 2008 till Feb. 2009
Employer : Kuwait Controls Company – Dubai
Job title : Electrical & Instrumentation Project Engineer
Job Description :

- Supply, Installation, Testing & Commissioning of Water Transmission Pipelines, Instrumentation, Control and Automation Requirements.
- Site Supervision with Subcontractors for cable Laying, Joint Termination,

Installation, Control system (RTUs), Instrumentation, Motorized Butterfly Valves - AUMA, Coordination with the Client and Consultant, Reading BOQ, As-Built Drawing.

Dates : From Jan. 2007 till Jan. 2008
Project : New Talkha Combined Cycle Power Plant 750MW
Job title : Control Room Engineer
Job Description :

- Mitsubishi Company one steam turbine: responsible for lube oil lines flushing and steam blow for steam header lines, monitoring the Bearing vibration and temperature, lube oil and HP / MP / LP steam temperature, closed cooling pipe lines charging and filling, lube oil tank separation units, steam turbine generator Hydrogen/CO2/AIR purging and pressurization, MSCV cold and hot commissioning and all routine tests on lube oil and hydraulic oil pumps and MSCV, over speed test, generator earth leak test & two Siemens gas turbines and two HHI heat recovery steam generators HRSG.
- Operation and supervise local plant operators and training of shift staff.
- Safe start-up and shutdown of plant, load changing, follow plant operating procedures, assists in the job training of other shift members.
- Perform troubleshot problems discovered, Estimate starting time for the idle generation units.

Dates : From Apr. 2003 till Dec. 2006
Project : Damietta Combined Cycle Power Plant 1300MW
Job title : Control Room Engineer
Job Description :

- Responsible for lube oil lines flushing and steam blow for steam header lines, monitoring the Bearing vibration and temperature, lube oil and HP / MP / LP steam temperature, closed cooling pipe lines charging and filling, lube oil tank separation units, steam turbine generator Hydrogen/CO2/AIR purging and pressurization, MSCV cold and hot commissioning and all routine tests on lube oil and hydraulic oil pumps and MSCV, over speed test, generator earth leak test & Borsig HRSG and Siemens gas turbines.
- Safe and efficient operation and monitoring of the plant equipment like: fuel systems, boilers systems, turbines systems, generators systems, and electrical systems.
- Change loading of turbines/generators as required from the Board or through DCS.

Field of experience :

- A substantially experienced CCGT, HRSG, STG, Sea Water Desalination Plant - MED, (N2, H2, CO2) Generation station, Utility-BOP, O&M Engineer with 17 years extensive knowledge on a wide variety of fields: commissioning, start-up, operation coordination of plant shutdowns, overhauls and outages, testing, organizing, supervising, Writing operation procedures, Training Workforce in all power utilities and associated plant of DCS-PLC panels with Mark IV, Mark IV+e, HMI, Scada.
- Expert with PTW, SAP, Fire Fighting.