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Commissioning Shift Charge Engineer

Holds a B. Sc. in Electronics & Communications Engineering and has about 13 years hands-on experience working in operation, commissioning and start-up at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/01/1985
Gender : Male
Marital Status : Married
Residence : Damanhour

EDUCATION

: B. Sc. in Electronics & Communications Engineering, Mansoura University, 2006

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Certification of completion Gas Turbine Familiarization Siemens SGT6-5000F (5), Qurayyah IPP - Saudi Arabia (Jun. 2013).
- : Certification of completion of Gas Turbine operation Siemens SGT6-5000F (5), Qurayyah IPP - Saudi Arabia (Jun./Jul. 2013).
- : Certification of completion of Steam Turbine Familiarization Siemens SST 6-4000 (DN), Qurayyah IPP - Saudi Arabia (Jul. 2013).
- : Certification of completion of BOP Familiarization, Qurayyah IPP - Saudi Arabia (Aug./Sep. 2013).
- : Certification of completion of oil spill & emergency response, SWIPP - Saudi Arabia, Sep. 2013.
- : Certification of completion of HAZMAT of Crude Oil, SWIPP - Saudi Arabia (Sep. 2013).
- : Certification of completion of HAZOP of Crude Oil, SWIPP - Saudi Arabia (Sep. 2013).
- : Samsung Certification of completion of Qurayyah Project HRSG system.
- : Samsung Certification of completion of Qurayyah Project Sea water intake system.

- : Samsung Certification of completion of Qurayyah project chiller plant system.
- : Samsung Certification of completion vibration monitoring system of Qurayyah project.
- : Samsung Certification of completion chemical feed system of Qurayyah project.
- : Samsung Certification of completion electro chlorination system of Qurayyah project.
- : Samsung Certification of completion Demineralization Desalination system of Qurayyah project.
- : Samsung Certification of completion waste water system of Qurayyah project.
- : Atlas Copco Certification of completion of fuel gas compressor operational training T.375-387.
- : On-shore training of ALSTOM (HRSG) operation, Nubaria.
- : On-shore training of steam turbine operation, Nubaria.
- : On-shore training of gas turbine Siemens v94.3A each one produces 250MW, Nubaria.
- : On-shore training of high and medium voltage (500KV/220KV/6.3KV), Nubaria.
- : Operation on-shore training of Alspa p320 distributed control system (DCS), Nubaria.
- : Maintenance of gas turbine stations (SIEMENS), 96 hours GAS TURBINE operation and maintenance training program, Nubaria.
- : Training for fire and civil defense in Damanhour.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Mar. 2017 till Mar. 2020
- Employer** : SIEMENS
- Project** : Beni Suef (4800MW) Combined Cycle Power Plant:
 Consist of 2 modules:
- Eight SIEMENS Gas Turbines (GT 8000H) 8x400MW.
 - Eight NEM Heat Recovery Steam Generation (HRSG) + Four SIEMENS (SST 4000F) steam turbines.
 - Water treatment plant produce DM water, Service water, Filtrate water and potable water.
 - Firefighting system.
 - Water firefighting system.
 - N2 generation system.
 - Fuel gas system have 5 gas compressors.
 - Fuel oil system.
 - Distillate fuel oil.
- Job title** : Commissioning Shift Charge Engineer
- Job Description** :
- Combined Cycle Plant commissioning & start-up and operation.
 - Safe Start-up and Shutdown Operation for all Plant.
 - Reviewing results and meeting with managers to discuss methods of improving the productivity of existing systems.
 - Dealing with SPPA-T3000 controller hardware and software (control system Toolbox).

- Fast Acting in Emergency Cases.
- Perform chemical cleaning and steam blowing for HRSG.
- BOP operation (cooling water system, fuel forwarding system, firefighting system,
- Identifying, investigating and repairing system faults.
- Supervising the work of manufacturing engineers.
- Train new engineers and support staff.
- Follow all safety instructions.
- Operation procedure writer.
- Train the fresh employees.

Dates : From Mar. 2016 till Oct. 2016
Employer : Shanahan Engineering LTD
Project : PP12 (2175MW) COMBINED POWER PLANT – KSA:
 The facility is a 4x4x1 combined cycle configuration consisting of:

- Four (4) GE (Frame 7FA.05) gas turbines Mark VI Control System.
- Four (4) ALSTOM HRSG triple pressure reheat cycle YOKOJAWA Control System.
- One ALSTOM Steam Turbine (380MW) two casing triple pressure reheat ALSPA Control.
- Direct air cooled condenser.

Job title : Start-up / Shift Engineer
Job Description :

- Performed pre-commissioning and commissioning activities: walk down inspection, punch list, prepare HRSG for chemical cleaning, and prepare HRSG for (start-up) Sigma steam blowing.
- Implementing start-up, normal, shut down operations and emergency handling as per operation manual and with control system YOKOGAWA and ALSPA.
- Monitoring HRSGS, turbine, generators, transformers, all motors, pumps and all equipment's.
- Fast acting in emergency cases.

Dates : From May 2013 till Mar. 2016
Employer : First National Operation & Maintenance Co. (NOMAC)
Project : Qurayyah IPP Combined Cycle (6x700MW) Power Station – Saudi Arabia:

- 12 x gas turbine 229MW SGT6-5000F-5 Dual fuel, Ultra Low NOX SIEMENS Gas Turbine
- 12 x Horizontal HRSG at two pressure levels BHI HRSG
- 6 x Steam turbine 226MW SSTG-4000 SIEMENS Condensing Steam Turbine combined cycle Auxiliaries
- Natural Gas Station consists of: Two Emergency shut-down (ESD) valves, Two Dry scrubber, Two Filter separators, Gas metering station, Gas chromatograph analyzer, 13 Atlas Copco gas compressor, Seven Dew Point heater type, PRV area contains seven lines
- Chiller system which contain two phase each phase contain: One Thermal Energy Storage tank, Ten Secondary Chilled Water Pumps, Eight chiller module)

Job title : Shift Supervisor

Job Description :

- Permit Issuer and isolation authority.
- Lock out tag out S.A.P.
- Undertake the daily running of permit to work office in conjunction with commissioning the 4000MW Gas and Oil Fired SIEMENS Machines.
- Participate in isolation and de-isolation of plant and equipment and the return to service of the plant or apparatus as required.
- Allocation of work schedules, verify documentation to ensure the isolation is correctly applied.
- Working knowledge of all hazards on a CCPP i.e. mechanical (pressure, temperature, stored energy), electrical 24V - 380KV (batteries, switchgear, cables, breakers, etc.), chemical (acid, alkalis, dust, confined spaces, etc.).
- Team player helps and pro-actively works towards a common goal supporting other members of commissioning staff.
- Low the dispatch load request.
- Perform periodical test.
- Shut down and start-up the unit.
- Operate the unit in disturbed situation.
- Collect and analyze periodical data.
- Follow and deal with alarms in control room.
- Perform necessary measures before equipment start-up.
- Follow operation specification.
- Analyze equipment efficiency.
- Check availability of stand by equipment.

Dates : From May 2011 till May 2013

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : Nubaria Combined Cycle Power Station (2x750MW):

- Two modules, each module consists of:
 - Two Siemens combustion gas turbines 250MW type V94.3a.
 - Two Alstom horizontal type heat recovery steam.
 - One Mitsubishi steam turbine 250MW type TC2F HP, IP and LP steam lines.
- 220KV switchyard.
- 500KV switchyard.
- Four tie transformers 500/220KV.
- Medium (6.3KV) and low (400 V) voltage switchgear.

Job title : Senior Shift Charge Engineer

Dates : From Jun. 2010 till May 2011

Project : Nubaria Combined Cycle Power Station

Job title : Operation Engineer of ALSTOM HRSG

Job Description : Responsible for operating four units of horizontal Alstom HRSG.

Dates : From Jan. 2008 till Jun. 2010

Project : Nubaria Combined Cycle Power Station

Job title : Operation Engineer for Siemens Gas Turbine

Job Description : Responsible for operating four units of SIEMENS gas turbines types V94.3A each 250MW.

- Field of experience :**
- Operation & start-up for Gas Turbine for Combustion Turbine Generator Siemens (SGT5000F (5)) for both FG mode and FO mode.
 - Operation & start-up for Steam Turbine for Combustion Turbine Generator SSTG-4000 SIEMENS Condensing Steam Turbine for both FG mode and FO mode.
 - Operation & start-up HRSG model BHI.
 - Operation & start-up for Gas Turbine for Combustion Turbine Generator (SIEMENS) V94.3A for both FG mode and FO mode.
 - Operation & start-up HRSG model Alstom.
 - Participate in steam blow for 12 HRSG model (BHI) in Qurayyah Project.
 - Operation & start-up for steam turbine model Mitsubishi.
 - Start-up and operation all auxiliary systems (service water, closed cooling water, Circulating water, compressed air, chiller system...etc.).
 - Check and operation the field equipments (valves, pumps...etc.) and all related constructions (it's the most important test for the boiler before starting).
 - Beside I'm sharing in training the new engineers in Nubaria Power Plant & Qurayyah Power Plant.
 - Experience in preparation of site activity planning, leading the construction team till successful start-up.
 - Understanding of P&ID drawing, coordinate with QA/QC and pipe line installation.