

101598-MEC-1OSY-E-2007
Commissioning & Start-up Operation Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 12 years hands-on experience working in operation, commissioning and start-up at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 21/03/1983
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Mechanical Power Engineering, Kafr El-Sheikh University, 2007

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: QBasic programming

TRAINING COURSES AND CERTIFICATIONS

: Basic Operation Training for Siemens Gas Turbine (V. 94.3A) and Generator, under the direction of Siemens PG in Egypt.
: Basic Training Course for MHI steam Turbine (TCDF 35.4") and Generator, under the direction of Mitsubishi Electric Corporation Energy Systems Center in Japan.
: Basic Operation Training for GE Gas Turbine (V. 9FA) and Generator, under the direction of GE in Egypt.
: HRSG Operation training in Nubaria Power Plant (STF).
: Fire and Civil Defense training in Nubaria Power Station.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Oct. 2020 till now
Employer : China Energy Engineering Group Jiangsu (CP-118)

- Project** : Cairo West Supercritical Power Station (CP-118)
- Job title** : Commissioning & Start-up Operation Engineer
- Job Description** :
- Commissioning, start-up and operation for condensate system.
 - Commissioning, start-up and operation for feed water system.
 - Commissioning, start-up and operation for closed cooling system.
 - Commissioning, start-up and operation circulating water system.
 - Commissioning, start-up and operation demi water system.
 - Commissioning, start-up and operation potable water system.
 - Commissioning, start-up and operation service water system.
 - Commissioning, start-up fire fighting.
 - Commissioning, start-up instrument air system.
 - Commissioning, start-up lube oil.
 - Field Operation Engineer.
- Dates** : From Nov. 2018 till Aug. 2020
- Employer** : Alfganim International
- Project** : Subiya CCGT3 (Kuwait) CCPP 750MW
- Job title** : Mech. Commissioning Engineer
- Job Description** :
- Commissioning and start-up for Combustion Turbine Generator.
 - Commissioning, start-up and operation for steam turbine.
 - Commissioning, steam blow out, start-up and operation for 2 Heat Recovery Steam Generation.
 - Commissioning and start up for Demi water pumps, service water pumps, closed cooling water system, potable water system, condensate system and feed water system.
 - Operation of firefighting system.
 - Lock out tag out for Electrical & Mechanical Equipment's before & after Work order.
- Dates** : From Jun. 2018 till Nov. 2018
- Employer** : [EGYPTROL](#)
- Project** : HAIL-2 CCPP (Saudi Electricity Company)
- Four Gas turbines 70MW.
 - Four HRSG.
 - One SIEMENS steam turbine 160MW (TM3000).
 - Auxiliaries (cooling tower, Demi water, service water, Air comp, Firefighting, closed cooling, circulating Systems, ...etc.).
- Job title** : Operation Engineer
- Dates** : From Jul. 2016 till Dec. 2017
- Employer** : Orascom Construction
- Project** : Burullus Combined Cycle Power Plant (4x1200MW)
Consists of 4 modules, each module consists of:
- Two SIEMENS gas turbines 400MW.
 - Two horizontal type HRSG.
 - One SIEMENS steam turbine 400MW (HP, IP and LP).
 - Auxiliaries (cooling tower, Demi water, service water, Air comp, Fire fighting, closed cooling, circulating Systems, ...etc.).

Job title : Mech. Commissioning Engineer

Dates : From Feb. 2016 till May 2016

Employer : [EGYPTROL](#), GE Energy Subcontractor

Project : Al Hamra Power Plant – 4x25MW GE Gas Turbine TM 2500

Job title : Start-up & Operation Engineer

Job Description :

- Performing the unit start-up and shutdowns.
- Monitor the operation of a power generating unit to ensure reliable and efficient generation.
- Analyze turbine faults, investigate and recommend solutions.
- Do regular maintenance and field services.

Dates : From Feb. 2014 till Feb. 2016

Employer : PGESCO (Power Generation Engineering & Service Co.)

Project : Giza North Combined Cycle Power Station (2250MW):

- Two GE gas turbines 250MW model MS9001FA - (DLN2.6), H2 cooled generators.
- Two STF horizontal type HRSGs.
- One Ansaldo Energia steam turbine 250MW (HP, IP and LP).
- Auxiliaries (service, closed cooling, circulating systems, etc.).
- 500/220KV GIS.

Job title : PTW Engineer

Job Description :

- Responsible for managing and authorizing the daily LOTO / PTW / TSA.
- Permitting (Lock out - Tag Out / Permit to Work / Task Safety Awareness).
- Responsible for the preparation, organizing, and authorization of the required forms prior the execution of any activities under the custody and control of the Commissioning Team.
- Responsible for supporting the Commissioning Leads in the preparation and issuing the required authorizations in a timely manner so as to not delay the Planned and or reactive daily activities.
- Follow up the plant pre-commissioning, commissioning and testing activities on plant and equipments.
- Follow up CTG, HRSG and STG units operation during reliability and performance test.

Dates : From Dec. 2012 till Feb. 2014

Project : Nubaria Combined Cycle Power Station Module III (750MW):

- Two GE gas turbines 250MW frame MS9001FA.
- Two horizontal STF HRSG.
- One ALSTOM steam turbine 250MW (HP, IP, LP stages).
- Auxiliaries (service, closed cooling, circulating systems, etc.).
- 500KV switchyard.
- Medium (6.3KV) and low (400 V) voltage switchgear.

Job title : Start-up & Operation Engineer in Siemens Gas Turbine (V.94.3A)

Dates : From Feb. 2012 till Dec. 2012

Employer : KHARAFI NATIONAL

Project : DAMIETTA Simple Cycle Power Plant 500MW (4x125MW), Egypt
Job title : GE 9E Gas Turbine Operation, Commissioning & Start-up Engineer
Job Description :

- Commissioning and testing for GT GE.
- Initial gas turbine start-up.
- Operation GT during reliability and performance test.
- Working as Operation Engineer responsible for:
 - Conducting all preparation steps of units in field to realize permissive for start-up from control room such as (filling line of water free of bubbles, all safety valves ready, coolers in service, all skids of hydraulic and pneumatic ready, firefighting ready, all electrical power source ready position of motorized valves in auto mode and ready to work locally, all manual valves before and after control and motorized valves shall be open, etc.
 - Responsible of start-up, operation, remarking alarms of units from control room and solve operation problems.
 - Survey in field for more check and confirmation of safe operation of equipment.

Dates : From May 2011 till Feb. 2012
Employer : Middle Delta Electricity Production Company (MDEPCO)
Project : Nubaria Combined Cycle Power Station – Module III (750MW):
One Module consists of:

- Two GE combustion gas turbines 250MW type MS9001FA
- Two STF horizontal type heat recovery steam HRSG
- One ALSTOM steam turbine 250MW type HP, IP and LP steam lines
- 220KV switchyard
- 500KV switchyard
- Medium (6.3KV) and low (400 V) voltage switchgear

Job title : Erection, Commissioning, Combustion Inspection Maintenance, Start-up Witness & Operation Engineer for GE gas turbine MS9001FA
Job Description :

- Operation and maintenance for Gas Turbine & Steam Turbine, commissioning and start-up for Combustion Turbine Generator (GE).
- Commissioning, start-up and operation for steam turbine (Alstom 250MW).
- Commissioning, steam blow out, start-up and operation for 2 Heat Recovery Steam Generators.
- Operation of fire fighting system.
- Lock out tag out for Electrical & Mechanical Equipment's before & after Work orders.

Dates : From Jan. 2009 till May 2011
Employer : Middle Delta Electricity Production Company (MDEPCO)
Project : Nubaria Combined Cycle Power Station
Job title : Commissioning & Start-up & Liquid Fuel Commissioning & Combustion Inspection & Hot Gas Pass Inspection Witness & Operation Engineer for ALSTOM steam turbine 250MW

- Job Description** : • Commissioning, start-up and operation for steam turbine (Alstom 250MW).
• Commissioning, steam blow out, start-up and operation for 2 Heat Recovery Steam Generators.
• Operation of fire fighting system.
- Dates** : From Aug. 2008 till Jan. 2009
- Employer** : Middle Delta Electricity Production Company (MDEPCO)
- Project** : Nubaria I & II Combined Cycle Power Station (2x750MW):
• Two modules, each module consists of:
- Two SIEMENS gas turbines 250MW type V94.3A
- Two horizontal ALSTOM HRSG
- One ALSTOM steam turbine 250MW (HP, IP, LP)
- Auxiliaries systems (service, closed cooling, circulating)
• 220KV switchyard
• 500KV switchyard
• Four tie transformers 500/220KV
• Medium and Low Voltage Switchgear
- Job title** : Commissioning & Start-up & Liquid Fuel Commissioning & Combustion Inspection & Hot Gas Pass Inspection Witness & Operation Engineer for Combustion Turbine Generator SIEMENS 94.3A
- Field of experience** : • Erection, commission, start-up, combustion inspection and operation gas turbine Engineer for GE 9E, GE 9FA & Siemens V94.3A.
• Start-up and operation HRSGs.
• Commissioning & start-up and operation of steam turbines (cold start & warm start & hot start).
• Check and operation the field equipments (valves, pumps, etc.).
• Start-up and operation all auxiliary systems (service water, closed cooling water, circulating water, compressed air, etc.).
• Participated in steam blow test for the heat recovery steam generators and all related constructions (it's the most important test for the boiler before starting).
• Responsible for site acceptance tests (cleaning, commissioning and function tests) for HRSGs & STEAM TURBINE and it's associated auxiliaries.
• Perform the steam blow-out activities for HP steam & HRH & CRH steam & LP steam lines.
• Perform the chemical cleaning according to procedures for condensate system & feed water system.
• Operation of high, medium & low voltage switchgears & load centers.
• Attending of construction, start-up, commissioning, first energize for the transformers.
• Perform safety work permit system.
• Operation of fire and fighting system.
• Summary: Start-up & Operation Engineer & PTW COORDINATOR Engineer in Combined Cycle Power Plants, Supercritical Power Plants, worked as a Start-up Operation Engineer for GE gas turbines frame MS9001FA (250MW), GE gas turbine frame 9E (125MW), GE gas turbine TM2500 (25MW), Siemens gas turbine frame V94.3A, ALSTOM steam turbine, ANSALDO steam turbines, STF HRSG and all BOP

systems in combined cycle power plant, also worked as an Operation Engineer for high, medium and low voltage switch gears & load centers.