

104618-MEC-14MOSY-E-2011

Mechanical Commissioning & Start-up Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 7 years hands-on experience working in operation, commissioning and start-up at several Power Plants. Dealing with DAYA automation system, YOKOJAWA operation system, APP operation system, SPPA-T3000 hardware and software (control system Toolbox).

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/03/1989
Gender : Male
Marital Status : Married
Residence : Currently Iraq

EDUCATION

: B. Sc. in Mechanical Power Engineering, Zagazig University, 2011

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D & 3D modelling
: Inventor 2D, 3D modelling, dynamic simulation & stress analysis

TRAINING COURSES AND CERTIFICATIONS

- : Training in Germany at Nuernberg by Siemens at SPPA-T3000 operation system:
 - Gas turbine process.
 - Process display, trends and report function.
 - Alarm sequence display.
 - Analysis of main sub group control.
 - Plant start-up, load monitoring and change.
 - Alarm and responds.
 - Understanding of function diagram and logic structure.
- : SIEMENS gas turbine SGT5-2000E maintenance training by SIEMENS:
 - Purpose, contents of maintenance and commissioning.
 - Warranty of component and system.
 - Preparation work for maintenance.

- Preparation work for commissioning.
 - Planning gas turbine maintenance & commissioning Box model.
 - Planning gas turbine maintenance & commissioning EOH model.
 - Documentation.
- : Training in American University at mechanical commissioning and start-up for new projects.
- : Rotating machinery vibration analysis for non-condition monitoring at Natcom.
- : Siemens V94.3A gas turbine operation training course by Siemens Company.
- : Attending several sessions in human development, communication skills, presentation skills & leadership skills.
- : Attending several seminars in oil and gas industry, refrigeration and cooling and other mechanical specification.
- : ICDL – Unesco Organization.
- : OSHA General – Engineers Syndicate.
- : AutoCAD 2D & 3D modelling (self learning).
- : Inventor 2D, 3D modelling, dynamic simulation & stress analysis (self learning).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2019 till now
- Employer** : J&P AVAX Construction Co.
- Project** : Bismayah Combined Cycle Power Plant phase two (1500MW), Iraq:
- 4 GE gas turbines frame 9FA (4x250MW).
 - 4 CMI heat recovery steam generator (HRSG).
 - 2 GE steam turbines frame C7 (2x250MW).
 - 2 Air cooled condenser (ACC).
 - Closed cooling system with fin fan cooler.
- Job title** : Mechanical Commissioning & Start-up Engineer
- Job Description** :
- Perform chemical cleaning and steam blowing for HRSG.
 - Perform lube oil & seal oil flushing.
 - Perform solo run test & mechanical run test for closed cooling water pumps.
 - Perform air blowing for instrument air system.
 - Identifying, investigating and repairing system faults.
 - Supervising the work of manufacturing engineers.
 - Train new engineers and support staff.
 - Follow all safety instructions.
 - LOTO & PTW issuer.
- Dates** : From Mar. 2019 till Jun. 2019
- Employer** : Egyptian Propylene & Polypropylene Company (EPP)
- Project** :
- Steam System including AUX. Boiler.
 - Air Separation unit (LINDE Plant), PSA type.
 - Demineralization units (Cation / Anion / Mixed bed).
 - Cooling Tower treatment.
 - Fractionation unit / propylene refrigeration unit.

- Hydrogen prod. unit / fuel gas unit.
 - Tank farm (Propane / Propylene / Ethylene) HITACHI Compressors.
 - Flare system.
 - R.O units.
 - Waste water treatment / Fire fighting system.
- Job title** : Mechanical Maintenance Engineer
- Job Description** : Work in offsite & utilities department has:
- Boiler (water tube) capacity 150 ton/h.
 - Water treatment plant for Demine water.
 - Fire fighting tank with its equipment.
 - Cooling tower.
 - Air compressor (Atlas Copco).
 - Lindea (Air separation unit).
 - Tank farm (propane storage tank & propylene storage tank).
 - Ethylene storage tank & propylene off spec tank).
 - Desanallation unit (Reverse osmosis unit).
- Dates** : From Aug. 2018 till Feb. 2019
- Employer** : Lotte Engineering and Construction Co. Ltd
- Project** : Grati Combined Cycle Power Plant (500MW), Indonesia:
- 2 ANSALDO gas turbines (2x160MW).
 - 2 DOOSAN Heat Recovery Steam Generators (HRSG).
 - 1 SKODA steam turbine.
 - Water Firefighting system.
 - Water treatment plant produce DM water, Service water, Filtrate water and potable water.
 - Service water pumps.
- 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 system.
 - Fast Acting in Emergency Cases.
 - Dealing with DAYA automation system, APP operation system controller hardware and software.
 - BOP operation (cooling water system, fuel forwarding system, firefighting system).
 - Identifying, investigating and repairing system faults.
 - Supervising the work of manufacturing engineers.
 - Follow all safety instructions.
- Dates** : From May 2017 till Jul. 2018
- Employer** : ENI
- Project** : Zohr Gas Field Development Project onshore 2800 MMSCFD:
- Unit 190, pig receivers / launchers.
 - Unit 199, slug catchers.
 - Unit 230, flare, vent and blowdown.
 - Unit 330, gas sweetening / acid gas removal AGR.
 - Unit 331, sulphur recovery unit SRU.

- Unit 332, tail gas treatment unit (only storage).
- Unit 334, sulphur forming facilities.
- Unit 340, dew point control.
- Unit 360, sales gas metering system.
- Unit 430, diesel fuel.
- Unit 460, compressed air.
- Unit 520, service water.
- Unit 522, demineralized water.
- Unit 525, steam and condensate.
- Unit 550, closed drains.
- Unit 565, sour water stripper (SWS).
- Unit 570, sanitary discharge treatment and storage.
- Unit 730, water / foam firefighting.

Job title : Mechanical Commissioning Supervisor (Rotating Equipment)

Dates : From Sep. 2016 till Apr. 2017

Employer : ELSEWEDY ELECTRIC PSP

Project : Beni Suef Combined Cycle Power Plant 4800MW (Egypt):

- 8 SIEMENS Gas Turbines SGT5-8000H (8x400MW).
- 8 NEM Heat Recovery Steam Generation (HRSG).
- 4 SIEMENS steam turbines SST-4000F.
- Water treatment plant produce DM water, Service water, Filtrate water and potable water.
- Firefighting system.
- Service water pumps.
- Raw water pumps.
- FM200 firefighting system.
- N2 generation system.
- Fuel gas system have 5 gas compressors.
- Fuel oil system.

Job title : Shift Charge & Mechanical Commissioning 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.
- Fast Acting in Emergency Cases.
- Dealing with SPPA-T3000 controller hardware and software (control system Toolbox).
- Perform chemical cleaning and steam blowing for HRSG.
- Perform lube oil & seal oil flushing.
- Perform solo run test & mechanical run test for service water pumps.
- Perform air blowing for instrument air system.
- 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.
- LOTO & PTW Issuer.

- Dates** : From Apr. 2016 till Aug. 2016
- Employer** : Hyundai Heavy Industries Co. (HHI)
- Project** : Jeddah South Thermal Power Plant (4x720MW) (KSA):
Supercritical Power Plant (2000 ton/hr. steam - 277.5bar)
- 4 Mitsubishi steam turbines.
 - 4 Boiler once through type.
 - Forced draft fan (FDF).
 - Induced draft fan (IDF).
 - Boiler circulating pump (BRB).
 - Gas recirculation fan (GRF).
 - Water treatment plant produce DM water, Service water, Filtrate water and potable water.
 - Firefighting system.
 - Heavy fuel oil (HFO).
 - Fuel oil system.
- Job title** : Operation & Mechanical Commissioning Engineer
- Job Description** :
- Thermal 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.
 - Fast Acting in Emergency Cases.
 - Supervision for chemical cleaning and steam blowing.
 - BOP operation (cooling water system, fuel forwarding system, firefighting system).
 - Identifying, investigating and repairing system faults.
 - Supervising the work of manufacturing engineers, trainee new engineers and support staff.
 - Follow all safety instructions.
 - Operation procedure writer.
 - Outage Coordinator.
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- Dates** : From Mar. 2015 till Mar. 2016
- Employer** : ELSEWEDY ELECTRIC PSP
- Project** : ATTAQA Gas Turbine 4x165MW (Egypt):
- 4 SIEMENS SGT5-2000E gas turbines.
 - Lube oil & hydraulic oil system.
 - Hydro clearance optimization system (HCO System).
 - Closed cooling water system.
 - Alfa Laval fuel oil treatment skid.
 - Water Fire fighting system.
 - Co2 Fire fighting system.
- Job title** : Shift Charge & Mechanical Commissioning Engineer
- Job Description** :
- Dealing with SPPA-T3000 controller hardware and software (control system Toolbox).
 - Simple Cycle Plant operation and start-up.
 - Safe Start-up and Shutdown Operation for all Plant.
 - Fast Acting in Emergency Cases.
 - Perform lube oil flushing & seal oil flushing.
 - Perform hydraulic oil flushing.

- Perform blowing for instrument air system.
- BOP operation (cooling water system, fuel forwarding system, fire fitting system...).
- Identifying, investigating and repairing system faults.
- Supervising the work of manufacturing engineers, train new engineers.

Dates	:	From Dec. 2012 till Feb. 2015
Employer	:	DOOSAN heavy industries & construction
Project	:	EL-AIN SOKHNA Power Plant (2x650MW) (Egypt): First Supercritical Power Plant in Middle East (2092 ton/hr. steam - 268.5bar) <ul style="list-style-type: none"> • 2 HITACHI steam turbines. • 2 Boiler once through type. • Forced draft fan (FDF). • Boiler circulating pump (BRB). • Gas recirculation fan (GRF). • Water treatment plant produce DM water, Service water, Filtrate water and potable water. • Firefighting system. • Heavy fuel oil (HFO). • Fuel oil system. • Fuel gas system.
Job title	:	Operation & Mechanical Commissioning Engineer
Job Description	:	<ul style="list-style-type: none"> • Thermal 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. • Fast Acting in Emergency Cases. • Supervision for chemical cleaning and steam blowing. • BOP operation (cooling water system, fuel forwarding system, firefighting system). • Train new engineers and support staff. • Follow all safety instructions. • Operation procedure writer. • Outage Coordinator.