

100389-MEC-OS-E-2002
Lead Mechanical Commissioning Engineer

Holds a B. Sc. in Mechanical Power Engineering and a Diploma in hydraulic machines and piping system. Has over 14 years hands-on experience working in operation, commissioning and start-up at several Power Stations.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 04/09/1977
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Mansoura University, 2002
: Diploma in hydraulic machines and piping system, Mansoura University, 2009

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD

TRAINING COURSES AND CERTIFICATIONS

: Certified in supervising the operating of pumps, compressors, boiler, turbine and all equipment of power plants.
: ICDL course.
: Certified in English (Jul. 2009).
: Training at Talkha Power Plant (Jul. 2001).
: Steam turbine operation course (Sep. 2004).
: AutoCAD 2004 course (2008).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2016 till now
Employer : Elsewedy Electric PSP
Project : Beni Suef (4x1200MW) Combined Cycle Power Plant (Fast Track Project)

		The plant consists of 8 gas turbines SIEMENS SGT5-8000H with control system SPPAT3000 + 8 NEM HRSG (Pinson Tech.) + 4 Siemens STG.
Job title	:	Lead Mechanical Commissioning Engineer
Job Description	:	<ul style="list-style-type: none"> • Perform all GT systems pre-commissioning (lifting & lube oil, Hydraulic oil, HCO, fuel gas, Blow off, Seal oil systems). • Support and cooperate with PSP staff in order to performing all commissioning and pre-commissioning work of BOP systems (Closed cooling, firefighting and demi water, Instrument air and service air systems). • Support GT performance test activities. • HRSG hydro-static pressure test (Boiler, non-boiler NEM scope and BOP systems). • Dry Lay Up after Hydro test by dry air.
Dates	:	From Sep. 2015 till Jun. 2016
Employer	:	Elsewedy Electric PSP
Project	:	Attaqa (4x160MW) Simple Cycle Power Plant (Fast Track Project) The plant consists of 4 gas turbines SIEMENS SGT2000E with control system SPPAT3000.
Job title	:	Mechanical Commissioning & Operation Engineer
Job Description	:	<ul style="list-style-type: none"> • Perform all GT systems commissioning (lifting & lube oil, Hydraulic oil, fuel gas, Blow off, air intake and CO2 FF systems). • Support and cooperate with PSP staff in order to performing all commissioning work of BOP systems (Closed cooling, fin fan coolers, demi water, Instrument air and service air systems). • Support GT performance test activities. • Support, cooperate and Following up PSP operation team during reliability test. • Perform fuel oil commissioning. • Perform and assist to achieve the optimum operation conditions for the unit operation during testing and normal operation from field and DCS. • Assist and perform with the power plant operation staff on daily basis to achieve the optimum conditions for the unit operation during all the start-up tests and activities.
Dates	:	From Mar. 2015 till Sep. 2015
Employer	:	Elsewedy Electric PSP
Project	:	Al-Dewania (9E 4x125MW) GE Simple Cycle Power Plant
Job title	:	Mechanical Commissioning & Operation Engineer
Job Description	:	<ul style="list-style-type: none"> • Cooperate with GE TFA to perform all GT systems commissioning (lifting & lube oil, Hydraulic oil, fuel gas, Blow off, air intake and CO2 FF systems). • Performing all commissioning work of BOP systems (Closed cooling, demi water, Instrument air and service air systems). • Doing commissioning tests of plant & start-up for all auxiliary equipments and systems of the plant. • Perform and assist to achieve the optimum conditions for the unit operation during the activities from field and DCS. • Assist and perform with the power plant operation staff on daily basis to achieve the optimum conditions for the unit operation during all the

start-up tests and activities.

Dates : From Jul. 2013 till Mar. 2015
Employer : Hitachi Power Technologies
Project : BANHA 750MW CCGT Power Plant
Job title : Mechanical Commissioning & Operation Engineer
Job Description :

- Working for HPT (Hitachi Power Technologies) CP-118 Contractor at BANHA Combined Cycle Gas Turbine Power Plant (750MW), Two (250MW) GE gas turbines Frame (9FA), Two HRSG Ansaldo Caldai, One 250MW Steam Turbine (Ansaldo Energia).
- Doing commissioning tests & start-up for all auxiliary equipments and systems of the plant.
- Perform and assist to achieve the optimum conditions for the unit operation during the steam blow-out activities for HP steam, HRH & CRH steam, and LP steam lines as B.O.P operator from field and DCS.
- Assist and perform with the power plant operation staff on daily basis to achieve the optimum conditions for the unit operation during all the start-up tests and activities.
- CP-118 contract including next equipments:
 - Pump house (Three circulating water pumps + two service water pumps + two raw water pumps + Silt dredge system + Bearings lubrication water skid).
 - Two Bearing flushing water pumps.
 - Condensate water system.
 - Feed water system (Three electrical HP/IP pumps + Three electrical LP feed water pumps).
 - Demi transfer system and demin. NOx pumping system.
 - Fire fighting system.
 - Two H₂ generation units.
 - EDG system.
 - SA, IA compressors and dryers system.
 - Potable water skid.
 - Liquid fuel unloading and forwarding pumping system.
 - Liquid fuel treatment skid (ALFA LAVAL fuel separators).
 - Sump pits pumping system.
 - CCW system.
 - Pipe rack including valves, venting and draining systems.

Dates : From Apr. 2012 till Jul. 2013
Employer : Power System Projects (PSP)
Project : ABU QIR Thermal Power Plant (2x650MW)
Job title : Mechanical Start-up & Commissioning Engineer
Job Description :

- Carry out all commissioning activities as per manufacture recommendation.
- Perform the chemical cleaning according procedures for the piping.
- Perform and assist to achieve the optimum conditions for the unit operation during the steam blow-out activities for HP steam, HRH & CRH steam and LP steam lines as B.O.P. operator from field and DCS.
- Assist and perform with the power plant operation staff on daily basis to achieve the optimum conditions for the unit operation during all the start-up tests and activities.

- CP-118 contract including per unit:
 - Pump house (Two Sulzer circulating water pumps + Two Sulzer service water pumps + bearing flushing water skid + sump pumps).
 - Condensate water system.
 - Feed water system (with one start-up electrical pump (25%) + two turbine feed water pumps (2x60%)).
 - Demi transfer system and condensate transfer system.
 - Two desalination units (M.E.D.).
 - Re-boiler system, sump pump system and sample rack.
 - 4 LP Heaters, Deaerator, 3 HP heaters including steam and water system.
 - Fire fighting system and H2 generation unit.

- Dates** : From Oct. 2010 till Mar. 2012
- Employer** : Middle Delta Electricity Production Co.
- Project** : Talkha Steam Power Plant (2x210MW):
- SKODA boiler (680 ton/hr – 165 bar – 540 °C).
 - Type of fuel: Fuel-light oil (L.F.O.): two pumps (discharge pressure 25 bar).
 - Heavy oil (H.F.O.): four low-pressure pumps, four high-pressure pumps (discharge pressure about 37 bar and not less than 135 °C).
 - Natural gas system: two gas pressure-reducing stations from 7.5 bars to 2.5 bar.
 - Two F.D. fans, two G.R. fans, two R.A. heaters.
 - Two S.C.A. heaters, three flame scanners fans.
 - Boiler Control system: BMS-ABB INFI 90 & PGP GRAPHIC SYSTEM.
 - SKODA Turbine (210MW).
 - Generator:
 - Rating Power 227 MVA.
 - Armature voltage 15.75 KV.
 - Armature current 10153 A.
 - Frequency 50 Hz.
 - Power factor 0.8.
 - Operating speed 3000 rpm.
 - Winding connection "Star".
 - Type of field voltage excitation: static.
 - Pump house (Four circulating water pumps (11000 ton/hr./PMP) + two service water pumps + Firefighting system + sump pumps + Electrical screens).
- Job title** : Operation Leader Engineer
- Job Description** :
- Manage and oversee the daily operations of the power plant.
 - Monitor operations for efficiency and safety ensuring that all applicable regulatory requirements are followed.
 - Issuing work permits & instructions of LO-TO procedures.
 - Oversee technical staff (maintenance and operators).
 - Training new personnel.
 - Contribute in plant troubleshooting.
 - Liaison with other departments to accomplish planned maintenance schedule.
 - Lead and direct the work of operation team.
 - Preparing performance reports of plant to top management.

- Liaison with Dispatch to determine outage timing.
- Doing unit trip analysis report.

Dates : From Oct. 2009 till Sep. 2010
Employer : Dubai Electricity & Water Authority (DEWA)
Project : MSF Desalination units (k43, 44, 45), Output = 3 x 45461 m³/day – Dubai
Job title : Operation Engineer
Job Description :

- Operating and reviewing the parameters for all desalination equipments to make sure that all equipments work in safety conditions (Sea water pumps house, hypo-plant, heat recovery and heat reject sections, brine heater, vacuum system, blending plant).
- Reviewing and preparing the condition for all equipments to make sure that all equipments are ready before starting it's operating during the unit start-up or normal operating (normalizing – warm up).
- Antiscallent and antifoam tanks preparing and (OLTC) sorting.
- Hypochlorite-plant and blending unit start-up and operating.
- Reviewing the operating parameters for all equipments to make sure that all equipments work in safety conditions.
- Working on and isolate the deluge system as preparing for maintenance activities or tests.
- Racking in and out all types of (MV – LV) switchgears or breakers.

Dates : From Aug. 2007 till Sep. 2009
Employer : Middle Delta Electricity Production Co.
Project : Talkha Steam Power Plant (2x210MW)
 (steam turbine and boiler and its auxiliaries made by SKODA)
Job title : Shift Charge Engineer
Job Description :

- Responsible for proper operation and monitoring of the boiler, turbine and their facilities related to the plant, carry out start-up, shutdown, routine and emergency operation of the plant as required, maintain log of all operation activities.
- Responsible for issuing of job work orders and to record equipment history over CMMS system.
- Compile various reports: daily performance calculations, unit trip analysis.
- Liaison with other departments in related activities.

Dates : From Jul. 2004 till Jul. 2007
Employer : Middle Delta Electricity Production Co.
Project : Talkha Steam Power Plant (2x210MW)
Job title : Boiler Operator (Control Room & Field Operator)
Job Description :

- Operating the boiler properly regarding:
 - Outlet steam properties and inlet feed water properties (temperature, pressure, PH No, conductivity and percentage of silica).
 - Inlet air and outlet flue gases properties (temperature, pressure, excess air percent and (CO, CO₂, O₂) percent.
 - Keep the previous parameters at the optimum operating values.
- Boiler including:

- SKODA boiler (680 ton/hr. – 165 bar – 540 C).
- Type of fuel: light-fuel oil (L.F.O): two pumps (discharge pressure 25 bar).
- Heavy oil (H.F.O.): four low-pressure pumps, four high-pressure pumps (Discharge pressure 37 bar and not less than 135 C).
- Natural gas system: two gas pressure-reducing stations from 7.5 bar to 2.5 bar.
- Two F.D. fans, two G.R. fans, two R.A. heaters.
- Two S.C.A. heaters, three Aux fans.
- SKODA Turbine (210MW).
- Generator: (Rating Power 227 MVA, voltage 15.75KV, current 10153 A).
- Pump house (four circulating water pumps (11000ton/hr./PMP) + two service water pumps.
- Firefighting system + sump pumps.

Dates : From Mar. 2003 till Jun. 2004

Employer : AQWA TREAT Co. for water treatment

Projects :

- New Damietta City wastewater lifting and treatment stations (7 lifting stations + treatment station – Capacity: 1900m³/day)
- New Damietta City and Ras-Elbar City drinking water treatment station (Capacity: 1m³/s)

Job titles : Operation & Maintenance Engineer / Workshop Manager