

101390-MEC-OS-E-1999
Commissioning, Start-up & Operation Lead

Holds a B. Sc. in Electronics Engineering and has about 19 years hands-on experience in mechanical operation, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 02/03/1976
Gender : Male
Marital Status : Married
Residence : Damietta

EDUCATION

: B. Sc. in Electronics Engineering, Mansoura University, 1999

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet
: Matlab
: Visual Basic

TRAINING COURSES AND CERTIFICATIONS

- : Training courses certified from MEW Kuwait & YOKOGAWA:
 - GE 9FA Gas Turbines (230MW).
 - HRSG (un-fired, single pressure, natural circulation, Horizontal type) Hyundai.
 - Fisia Italmimpianti Desalination Plant 15MIGPD.
 - Toshiba Steam Turbine (215MW).
 - Operator station by T3000 Siemens, YOKOGAWA CENTUM, Ovation (EMERSON) & TOSMAB (Toshiba) & Mark IV - cimplicity (GE).
- : Training courses certified from EDEPC:
 - Gas Turbine operation, at Damietta Power Station.
 - Control systems in Gas Turbines and Boilers, at Damietta Power Station.
 - Electricity maintenance, at Damietta Power Station.
 - Chemical treatment of water, at Damietta Power Station.
 - Operator station for Ovation by EMERSON, at Damietta Power Station.

: Training in Ansaldo for operation of steam turbine (Ansaldo workshop at Geno).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Nov. 2015 till May 2018
Employer : Samsung C&T Corporation
Project : Rapigh-2 Independent Power Plant (R2IPP) / CCPP (2050MW), KSA:

- 6x232MW Siemens STG6 PCC-5000F (5ee) Gas Turbines with its auxiliaries systems (T3000).
- 6x352 T/H HRSG (BHI Korea) YOKOGAWA CENTUM operating.
- 3x248MW Siemens SST6-5000 Steam Turbine with its auxiliaries systems (T3000).
- 7 Atlas Copco Gas Compressors 38 bars with 1 chromatographs system, 4 DPH Dew Point Heater, 2 units of Nitrogen generators, 4 Air compressors, secondary pumps, Firefighting... etc.).
- Reverse Osmosis - 3 trays (2 stages) - each one 250 ton/hr.
- Demineralization, waste water system, ECP (Electro-chlorination plant).

Job titles : Commissioning & Start-up Lead / Operation Lead

Dates : From Apr. 2015 till Nov. 2015
Employer : General Electric Inc. (GE)
Project : West Damietta-2 Simple Cycle (4x125MW 9E) Fast track (4x125MW - 9E GE GT MS9001EA with its auxiliaries systems Lube and Hydraulic Oil, Fuel Gas, Fuel Oil, APU Air Processing Unit, washing system, Cooling Water system.....etc.)
Job title : Commissioning & Start-up Leader

Dates : From Oct. 2013 till Apr. 2015
Employer : [EGYPTROL](http://www.egyptrol.com) – Commissioning Subcontractor for SAMSUNG C&T
Project : Qurayyah Independent Power Project (6x750MW) – Combined Cycle, KSA:

- 12x230MW Siemens STG PCC-5000F Gas Turbines (T3000 operating).
- 12 x 352 T/H HRSG (BHI Korea).
- 6x230MW Siemens STT 4000 Steam Turbine (T3000 operating) and 6 condensers.
- 13 Atlas Copco Gas Compressors 38 bars with 1 chromatographs system, 7 DPH Dew Point Heater, 2 units of Nitrogen generators, 8 Air compressors, 2 Groups of Chillers each one by 8 modules and 10 secondary pumps, Fire Fighting... etc.).
- Reverse Osmosis -3 trays- each one 250 ton/hr.
- Demineralization, waste water system, ECP (Electro chlorination plant).
- 6x2MW Diesel Generators.

Job title : Commissioning & Start-up Lead / Operation Lead

Dates : From Sep. 2012 till Oct. 2013
Employer : East Delta Electricity Production Co. (EDEPC)
Project : Damietta Simple Cycle Plant:

- 4x125MW GE GT MS9001EA with its auxiliaries systems Fuel Gas, Fuel Oil APU Air Processing Unit...etc. operation by MARK VI.
- Air compressors, CCW system, Diesel Generators, Waste Water (WW) systems.
- Fuel Oil treatment, by ALFA LVAL separators.

Job title : Operation Assistant Manager

Dates : From Jun. 2012 till Sep. 2012

Employer : [EGYPTROL](#), Commissioning Subcontractor for ANSALDO ENERGIA

Project : 6th October Power Station (600MW)

Job title : Mechanical Commissioning & Start-up Engineer

Job Description :

- Ansaldo GT AE V94.2 (4x150MW) with its auxiliaries systems Fuel Gas, Fuel Oil system, Instrument Air systemetc.
- 4 Air compressors, CCW system, Diesel Generators, Waste Water (WW) systems, Fire Fighting.
- Operating the System of DCS using ABB Symphony S+ Operations V1.0.

Dates : From May 2011 till Jun. 2012

Employer : Kharafi National

Project : Al-Shabab Power Plant

The plant consists of the following configuration:

- 8x125MW GE GT MS9001EA with its auxiliaries systems Fuel Gas, Fuel Oil APU Air Processing Unit, etc.
- Fuel Oil treatment, by ALFA LVAL separators.
- Reverse Osmosis (RO) & Ultra Filtration (UF) & Waste Water (WW) systems.

Job title : Commissioning & Start-up Engineer & SCE

Dates : From Sep. 2009 till May 2011

Employer : Kharafi National

Project : Al-Shuaiba North Power Station (SNPS - 3x217.5MW + 3x15 MIGPD), Power & Distillation Plant – Kuwait

The plant consists of the following configuration:

- 3x217.5MW GE 9131FA gas turbine generators, with dual fuel firing (Oil & Gas) capability & evaporative cooler.
- 3 HRSG (un-fired, single pressure, natural circulation, Horizontal type) Hyundai (3x352 t/h), Integral type deaerator installed on each HRSG.
- 3 bypass stacks with diverter dampers.
- 1 back pressure steam turbine, Toshiba (215.7MW).
- 2 x 50% HP/LP bypass systems to supply LP process to desalination plant.
- 1 x 100% HP/IP bypass system to supply IP process steam to desalination plant.
- 1 turbine bypass system to dump the HP steam to dump condenser.
- 1 start-up bypass system to support the startup of HRSG unit to running the combined cycle operation.
- 1 dump condenser.
- 3 MSF type distillation units of each 15 MIGPD capacity.

- 3 x 50% condensate extraction pump for dump condenser.
- 2 x 100% feed water pump for each HRSG.
- 4 gas compressors atlas copco, reduction pressure system& Buffer system.
- 4 Instrument and Service air compressors.
- Fuel Oil system.
- Demineralization & waste water plants.
- 3x2.5MW Diesel Generators.

Job title : Mechanical Commissioning, Start-up & Operation Leader

Dates : From Jan. 2001 till Aug. 2009

Employer : East Delta Electricity Production Co. (EDEPC)

Project : Damietta Combined Cycle Plant:

- DCS Operating & monitoring by Ovation Emerson.
- Three (3) Steam turbines 140MW (ALSTOM).
- HRSG, 250 T/h (BORSG).
- Six Units of GAS Turbine Siemens V94.2 each one of them driving Electric Generator TLRI 9x135MW (Siemens V94.2).
- Auxiliaries (2x2.5MW Diesel Generators, Air compressors, Air conditioning, firefighting, etc.).
- Two Power Transformer 10.5KV/220KV,152MVA Trafo-Union.
- Four Air Compressor, Atlas-comp.
- Operating & Monitoring GIS SF6 220KV (3/2 Breakers) Switch Gear (AEG).
- Switch yard contain connections of: 9 Generator, 6 Transmission lines & Control panels for this connections & Protection system of transmission lines.

Job titles : CCR Operator & DCS Engineer & Shift Charge Engineer

Dates : From 1999 till 2000

Project : Military Service

Job Description : Worked in I&C Maintenance Department.

Field of experience :

- Operation and commissioning & start-up of simple cycle and combined cycle (SCPP & CCPP), RO (Reverse Osmosis).
- Commissioning & Start-up Lead activities:
 - Provide a commissioning service of the pre-commissioning and commissioning documentation, ECC (Erection Clearance Certificates), CCC (Commissioning Clearance Certificates) till COD Commercial Operation Date (with regard to procedures, quality, HSE, cost and schedule optimization) is at the full satisfaction of Operations.
 - Interface with the constructions group and the owner, as required to facilitate system turnover and plant acceptance.
 - Facilitate the development and implementation of all engineering and vendors work for developing the operation manuals of all machines and units, the facilities are optimal, safe, cost effective and in compliance with the latest Codes, Standards, National and Corporate requirements and procedures.

- Ensure vendor fabricated assemblies conform to industry standards (ASME, ASTM), and prepare for RFI and reply for SON and PCM.
- Support the established Risk Management process in order to ensure successful and timely completion of the project.
- Responsible for all inputs, plans, activities and decisions related to the commissioning aspects of the scope for the project.
- Key decisions during facilities design, construction, pre-commissioning and commissioning works affecting project cost and schedule.
- Monitoring progress, recording all test results, witnessing final testing and acceptance of equipment.
- Make sure all systems are designed, installed, tested, operated, & maintained safely according to client standards and comments; submitted to review, comments and approval to client organization; reinstatement procedure for system.
- System walk-downs to identify mechanical and I&C punch-list items.
- Give clients the required operations training and mechanical with I&C personnel.
- Implementation and day to day operation of the project Permit to Work system for all construction and commissioning activities.
- Facilitation of permit meetings; ensuring all permits are completed and issued with required supporting documentation; tracking of permits from creation to close out.
- Maintaining applicable hard and soft copy records and managing the permit log; and overseeing all other activities relating to PTW's.
- Additional to the field activities: mechanical, I&C and electrical activities with the Technical Data, SOLO test, Heat run tests, Function Tests for all Equipments, Air blowing, Hydraulic tests, Lube oil flushing, Water system flushing, Chemical cleaning, GTs First firing by Fuel Gas or Fuel Oil, Steam blowing (continues or pulsations), Loops check, DCS signals and logics check, Automatic Turbine Tester (ATT), Dummy synchronizing, Runback test, Load rejection, Voltage per HZ test, Droop tests (over and under excitation tests), over speed test, Cold start-up, Warm Hot start-up, Pre performance test, and actual Performance Test (PT), Reliability Test running (RTR).Preservation HRSG and RO....etc.
- Operation Lead activities:
 - Preparing daily shift log report and all other operational reports, trip reports and all required documents, Guide and train sub-ordinates.
 - Line up of the unit and its auxiliaries, Changeover of equipment's, routine testing of protection system and annunciation system.
 - Monitor plant operations and handle emergencies including shut-down of units and load throw-off to control generation as per requirement as following in:
 - GTs (Siemens STG 5000F with its auxiliaries Operation byT3000, GE 9E-9FA with its auxiliaries Operation by MARK VI, GE 7EA Operating with MARK V) also GTs (Siemens 94.2 by Wintes program and Ansaldo AE 94.2 operation by ABB Symphony S+ Operations V1.0.
 - STs (Alstom with its auxiliaries, Operating by Ovation, Toshiba with its auxiliaries operating by Tosmap, Siemens with its

- auxiliaries Operating by T3000).
 - HRSG (BORSG, Hyundai, Siemens, BHI, CMI), Operating by Ovation and T3000.
 - All BOPs: Atlas Copco Gas Compressors, DPH dew point heater, OPH Oil Path Heaters, Air compressors, Diesel Generators, Sea water Intake, CCW, CO2 systems, Firefighting.
 - Reverse Osmosis (RO) & Ultra Filtration (UF).
 - Waste Water (WW), Water Treatment, Demineralization Plants, distillers (Desalination Plant).
 - Fuel Oil treatment, by ALFA LVAL separators, Distillation plants.
- GIS, Switch Yards & HV and LV Switch Gears, connecting and disconnecting C.Bs, safe isolation Bus bars and all Equipments by discussion with Electrical team.
- Co-ordinate with different maintenance and service department to get a work done.
- Ability to carry out predictive troubleshooting by monitoring performance parameters, reviewing data trends and the overall integrated performance of the plant.
- Check all defects then Issue and cancellation PTW (Permit to Work) with the method of statements, safe isolation, personnel safety HSE and equipment safety by discussion with Operation and HSE Management.
- Chemical dosing and sampling unit's preparation, preservation of HRSGs.
- Operating Black start-up, and Maintain the safe shutdown for all the plant.
- DCS operating to ensure reliable supply of utilities to site customers. This includes alarm response, trending of key system performance parameters, troubleshooting, work request generation, log book entries and communication to customers, field technicians, maintenance, and engineering support, Control systems include Delta-V, ABB, and Andover, P&IDs....etc.
- Skills:
 - Commissioning experience of working on Studies, FEED and EPC Power Plants projects in both design and site project phases.
 - Ability to review contractual documents and identify project requirements and constraints / risks.
 - Ability to lead subcontractor for the safe execution of Pre-Commissioning / Commissioning activities in line with the schedule.
 - Lead a team of engineers/supervisors for the execution of pre-commissioning, commissioning and start-up activities. Be continually present on the field to guarantee the quality and progress of the work.
 - Identify system/sub-system priorities and guide contraction to follow the same.
 - Ability to control execution cost and resources within budgeted cost.
 - Review and approve system/sub-system limits and turnover philosophy.
 - Review reports generated by Commissioning Engineers and

- provide support and technical guidance as and when required.
- Carry out any other duties as and when required by direct supervisor.
 - A self-motivated, proactive individual with high achievement drive and initiative, very good English verbal and written communication skills, and good organizational awareness.
 - Excellent communication skills to implement, drive and coordinate the PTW process.
 - Seek a broad range of information for analysis and decision making.
 - Generate ideas and solutions to overcome problems and improve performance.
 - Build relationships with key stakeholders.
 - Promote team working with colleagues to maximize performance.