

100021-MEC-OS-E-1993
Commissioning & Start-up Team Leader

Holds a B. Sc. and a post graduate Diploma in Mechanical Engineering. Has over 20 years hands-on experience in fossil fuel power plants operation and complete knowledge in electrical and I&C components of the power generation plants. Worked in power plants and pumping stations in Egypt, Syria and Algeria.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 04/05/1967
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Mechanical Engineering (Thermal Power), Assiut University, 1993
: Post graduate Diploma of Mechanical Engineering (Thermal Power), Assiut University, 2001

LANGUAGES

Arabic : Native Language
English : Fluent
French : Fair

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: MS Project
: Fortran

TRAINING COURSES AND CERTIFICATIONS

: Advanced training of operation, Power Station in Abu Qir Thermal Power Plant.
: Training course in North Cairo Training Center.
: In-site training in Assiut Power Plant.
: Experience certification from Consortium Koch / Siemens Companies.
: Power Point course in Assiut Power Plant.
: MS Project 2007 course in New Horizons Computer Learning Center.
: Excel 2007 course in New Horizons Computer Learning Center.
: Word 2007 course in New Horizons Computer Learning Center.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Jun. 2013 till now
Employer	:	EGYPTROL – Commissioning Subcontractor for SAMSUNG C&T
Project	:	Qurayyah Independent Power Project (6x750MW) – Combined Cycle, KSA
Job title	:	Commissioning, Start-up & Operation Team Leader
Job Description	:	<ul style="list-style-type: none">• Lead and coordinate Commissioning activities.• Lead and coordinate Operation activities.• Reporting to the SAMSUNG C&T Commissioning Manager.• Conduct meeting with commissioning manager to review testing, commissioning progress and HSE conformance on daily and occasionally more frequent basis as well as meetings with the vendors to resolve any equipment related problems.• Analyze and address critical areas of progress/delays in testing and commissioning.• Ensure that all safety and precautionary requirements and procedures are followed during the commissioning process in line with the commissioning schedule.• Supervise logistics administration, field engineering, material approvals, coordination with Client, planning, Progress monitoring & cost control.• Mobilize manpower as per the commissioning schedule. Coordinate with other departments/ agencies to resolve interface problems.• Carry out a detailed assessment of the work involved in the individual group as well as discipline with respect to the commissioning and assess the available resources and possible constraints in the execution.• Carry out detailed analysis of plant commissioning, assessing the requirements of special tools / temporary facilities/equipments required for pre-commissioning and commissioning, prepare Equipment/Tools list and initiate procurement.• Study the engineering / technical documents/vendor information and prepare procedure for systematic and sequential pre-commissioning / commissioning / start-up of plant.• Prepare commissioning schedule based on the quantum of job and duration for each activity as well as prioritize system requirements.• Create elaborate commissioning plan including the scope of commissioning activities, duration for each, scope of interlinked activities, resources available, commissioning material requirements as well as availability of tools and machinery• Making commissioning procedure for condensate system, feed water system, demine water system, closed cooling system, fire fighting system, fuel oil system, chlorination system, water treatment system, desalination system, GT inlet air chiller system, fuel gas system and lube & lifting & hydraulic oil systems.• Ensure all construction activities are completed prior to taking up the system for commissioning.• Participate in pre-construction Engineering reviews and project planning.• Participate in management of change for engineering and construction of the project.• Follow construction progress and participate in solving construction and installation problems.

- Supervise and perform flushing, chemical cleaning and steam bow.
- Supervise steam/water sampling system, safety (relief) valves, flue gas analyzing system, chemical cleaning ...etc. Vendors.
- Pre-commissioning the (Start-up) steam blowing.
- Arrange to prepare a check/punch list of jobs after a pre-commissioning run and ensure their progressive clearance.
- Managing all aspects of pre-commissioning, commissioning and operation checkout, through initial energizing, startup of the new process and associated systems.
- Planning of 'on site' activities and allocation of available manpower on a daily basis.

Dates	:	From Oct. 2011 till Mar. 2013
Employer	:	EGYPTROL – Commissioning Subcontractor for ANSALDO CALDAIE S.P.A.
Project	:	Abu Qir Thermal Power Plant (2x650MW): <ul style="list-style-type: none"> • ANSALDO 2067 T/Hr SH flow, 1729 T/Hr RH flow, front & rear burners low NO_x burner TEA-BA dual fired (N.G./HFO) drum type, natural water circulation, reheat boiler with 2 x 50% FD/GR fans, air heater, Soot blowers, CEMS, etc. • MITSUBISHI STG with HP, IP and LP cylinders, H2 cooled Generator and see water cooled Condenser with HP, LP Steam Bypass systems. • BOP including 8 Stage regenerator feed water heaters, Circulating water, 2x 50% TFWP and 1x 30% MFWP for start-up, Closed cooling water, Compressed air, EDG, Fuel handling, Ball cleaning and H2 production systems.
Job title	:	Commissioning, Start-up & Operation Team Leader
Job Description	:	<ul style="list-style-type: none"> • Lead and coordinate commissioning activities. • Lead and coordinate operation activities. • Reporting to the Ansaldo Commissioning Manager. • Conduct meeting with contractors, consultant's designers, and asset holder department(s), as and when necessary, to review testing, commissioning progress and HSE conformance on daily and occasionally more frequent basis as well as meetings with the vendors to resolve any equipment related problems. • Analyze and addresses critical areas of progress/delays in testing and commissioning. • Ensure that all safety and precautionary requirements and procedures are followed during the commissioning process in line with the commissioning schedule. • Supervise logistics administration, field engineering, material approvals, coordination with Client, planning, Progress monitoring & cost control. • Mobilize manpower as per the commissioning schedule. Coordinates with other departments / agencies to resolve interface problems. • Carry out a detailed assessment of the work involved in the individual group as well as discipline with respect to the commissioning and assess the available resources and possible constraints in the execution. • Carry out detailed analysis of plant commissioning, assessing the requirements of special tools / temporary facilities/equipments required for pre-commissioning and commissioning, prepare Equipment/Tools list

and initiate procurement.

- Study the engineering / technical documents/vendor information and prepare procedure for systematic and sequential pre-commissioning / commissioning / start-up of plant.
- Prepare commissioning schedule based on the quantum of job and duration for each activity as well as prioritize system requirements.
- Create elaborate commissioning plan including the scope of commissioning activities, duration for each, scope of interlinked activities, resources available, constraints regarding the same, as well as availability of tools and machinery.
- Making commissioning procedure for air and flue gas system, fuel oil system, fuel gas system, feed-water and steam system, soot blower system and auxiliary steam system.
- Ensure all construction activities are completed prior to taking up the system for commissioning.
- Analyze the scope as per contract and battery limit / guarantees.
- Participate in pre-construction engineering reviews and project planning.
- Participate in management of change for engineering and construction of the project.
- Follow construction progress and participates in solving construction and installation problems.
- Supervise and perform flushing, chemical cleaning and pass water of piping.
- Supervise steam/water sampling system, safety (relief) valves, flue gas analyzing system, chemical cleaning, etc. Vendors.
- Pre-commissioning the (start-up) Boiler steam blowing.
- Arranges to prepare a check/punch list of jobs after a pre-commissioning run and ensures their progressive clearance.
- Managing all aspects of pre-commissioning, commissioning and operation checkout, through initial energizing, start-up of the new process and associated systems.
- Planning of 'on site' activities and allocation of available manpower on a daily basis.
- Provide technical as well as manpower support to client during initial operation.

Dates : From Feb. 2011 till Sep. 2011
Employer : [EGYPTROL](#) (Head Office)
Job title : Commissioning, Start-up & Operation Leader
Job Description :

- Support company stuff that supplied to other companies.
- Making commissioning procedure for gas turbine auxiliaries, boilers and its auxiliaries, Desalination plant, CLOSED COOLING system, service water system and power plants various systems.
- Preparing commissioning bidders.
- Participate in getting ISO9001-2008 CERTIFICATE.

Dates : In Dec. 2010
Employer : ABB EnergieTechnic

Project	: DOHUK Simple Cycle Gas Power Station (4x125MW), IRAQ / KURDISTAN:
	<ul style="list-style-type: none"> • GE Gas turbine frame 9E. • Water-to-Air-Cooled 9A4 Generator with Brushless Excitation.
Job title	: Operation & Start-up Manager Engineer
Job Description	: <ul style="list-style-type: none"> • Lead and coordinate commissioning activities. • Lead and coordinate operation activities. • Reporting to the Site Manager. • Planning the various commissioning activity. • Analyze and addresses critical areas of progress/delays in testing and commissioning. • Conduct meeting with contractors, consultant's designers and asset holder department(s), as and when necessary, to review testing and commissioning progress on daily and occasionally more frequent basis. • Ensure the setting up of safety and precautionary requirements. • Participate in management of change for engineering and construction of the project. • Participate in pre-construction engineering reviews and project planning. • Arrange to prepare a check/punch list of jobs after a pre-commissioning run and ensures their progressive clearance. • Follow construction progress and participates in solving construction and installation problems. • Supervising pre-operational, operational and load performance activities. • Making on-site training for client engineers.
Dates	: From Mar. 2010 till Nov. 2010
Employer	: EGYPTROL – Commissioning Subcontractor for HRSG Contractor NEM
Project	: EI-Atf Combined Cycle Power Plant 750MW: <ul style="list-style-type: none"> • 2x250 MITSUBISHI Gas turbines, H2 Cooled generator. • Two NEM HEAT RECOVERY natural circulating 2 x 340 T/Hr, 128 Bar, 566 C° each comprising HP system, reheater system, IP system, LP system, condensate preheat system, steam/water sample system, flue gas analyzing system (CEM), one de-aerator including feed water storage tank, chemical dosing system, and two condensate preheat recirculation pumps. • 1x250 ANSALDO ENERGIA Steam turbine, H2 Cooled generator.
Job title	: Commissioning, Start-up & Operation Leader
Job Description	: <ul style="list-style-type: none"> • Lead and coordinate commissioning activities. • Lead and coordinate operation activities. • Reporting to the Commissioning Manager. • Conduct meeting with contractors, consultant's designers and asset holder department(s), as and when necessary, to review testing and commissioning progress on daily and occasionally more frequent basis. • Analyze and address critical areas of progress/delays in testing and commissioning. • Ensure the setting up of safety and precautionary requirements. • Participate in pre-construction engineering reviews and project planning. • Participate in management of change for engineering and construction of the project. • Follow construction progress and participates in solving construction and installation problems.

- Supervise and perform flushing, chemical cleaning and pass water of piping.
- Supervise chemical dosing system, steam/water sampling system, safety (relief) valves, flue gas analyzing system vendors.
- Pre-commissioning the (start-up) Boiler steam blowing.
- Arrange to prepare a check/punch list of jobs after a pre-commissioning run and ensures their progressive clearance.
- Inspection for de-aerator feed water tank, steam silencers, ducts, internal and external insulation, expansion joints, bumpers, hangers, pipe support and steel structure.
- Managing all aspects of pre-commissioning, commissioning and operation checkout, through initial energizing, startup of the new process and associated systems.
- Commissioning of condensate preheat recirculation pumps and putting it in service.
- Conducting the function test for motorizing and control valves.
- Start-up HRSG for Blow out and normal operation.
- Putting into service the two HRSG's.
- Supervising pre operational, operational and load performance activities.
- Complete reliability run and performance test as per the client's request.
- Responsible for managing Facilities Performance Test in line with design parameters.
- Participate in tuning all controllers to get units to optimum performance.
- Trip testing and interlocks.
- Testing the set values of ERV, relief valves, automatic opening and closing for motorizing valves and annunciation.
- Assist in setting up of necessary mechanism for prompt complaint rectification during defects liability period
- Production and submission of all work permits relating to commissioning and operation activities.
- Planning of 'on site' activities and allocation of available manpower on a daily basis.
- Participates in communicates with all project stake holders in a logical, systematic and timely manner.
- Complete necessary documentation for project turnover to client.
- Plant handover at the end of contract.
- Making on-site training for client engineers.
- Develop the Punch list Management Process with the Owner and Consultant.
- Supervise witnessing and certification of system/equipment during mechanical completion tests, guarantee runs.
- Assists in managing smooth handing-over of facilities to the Asset Holder.

Dates : From Nov. 2009 till Mar. 2010

Employer : [EGYPTROL](http://www.egyptrol.com) – Seconded to ABB Manheim

Project : Barrage Cheliff M.A.O. Water Pumping Project, Algeria:
68400 m³/hr water pumping project in ALGERIA, MOSTAGANEM / ARZUE / ORAN (M.A.O.) including:

- 5 Flowserve pumps, 5700 m³/hr capacity and 203 m head to supply water to a reservoir located at 5 km distance and 271 m height for

providing water to Oran at 150 km distance.

- 7 Flowserve pumps, 5700 m³/hr capacity and 156 m head to supply water to Kerrada Dam located at 7 km distance and 92 m height for storage.

Job title : Commissioning & Start-up Leader

Job Description :

- Lead and coordinate commissioning activities.
- Lead and coordinate operation activities.
- Reporting to the Site Manager.
- Ensure the setting up of safety and precautionary requirements.
- Making heat run test for all motors and pumps.
- Making flushing for pipelines.

Dates : From Apr. 2009 till Nov. 2009

Employer : [EGYPTROL](#) – Commissioning & Operation Subcontractor for BoP Electrical and Mechanical Contractors TOSHIBA/TOYOTA

Project : EI-Atf Combined Cycle Power Plant 750MW

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

Job Description :

- Lead and coordinate commissioning activities.
- Lead and coordinate operation activities.
- Prepare procedure and schedule for systematic and sequential pre-commissioning / commissioning / start-up / operation of plant from the engineering / technical documents / vendor information.
- Reporting to the Site and Project Manager.
- Holds regular review meetings with the consultant and client.
- Supporting CP-101 in reliability test for Gas turbine.
- Ensure the setting up of safety and precautionary requirements.
- Follow construction progress and participates in solving construction and installation problems.
- Making heat run test for all motors and pumps.
- Making flushing for Potable water system, raw water system, air conditioning, fuel oil system, circulated water system, sump pump, condensate system, feed water system, chemical cleaning for the condensate and feed water systems.
- Complete reliability run and performance test as per the client's request.
- Deliver training to Operators and Maintenance team, ensure operators training level is adequate.
- Ensure that allocated commissioning systems reach milestone targets in due time as per schedule and considering multi disciplines vision, etc.
- Participate in pre-construction engineering reviews and project planning.
- Participate in management of change for engineering and construction of the project.
- Control and validate tests results.
- Sign Tests sheets.
- Planning of 'on site' activities and allocation of available manpower on a daily basis.
- Request and define Permit to Work and related documentation for commissioning activities.
- Follow project schedule targets.
- Prepare and reviews commissioning documentation (procedures, method statements).

- Managing all aspects of pre-commissioning, commissioning and checkout, through initial energizing, heat-up and start-up of the new process and associated systems.
- Communicate with all project stake holders in a logical, systematic and timely manner.
- Complete necessary documentation for project turnover to manufacturing.

Dates	:	From Jan. 2008 till Mar. 2009
Employer	:	Upper Egypt Electricity Production Company (UEEPC)
Project	:	Assiut Thermal Power Station, 2x312MW Steam Power Plant including: <ul style="list-style-type: none"> • MITSUBISHI ball firing dual fired (N.G. /HFO) drum type, forced circulation, reheat boiler with 2x50% FD /GR fans, air heater, soot blowers, etc. • ANSALDO front & rear burners dual fired (N.G./HFO) drum type, natural water circulation, reheat boiler with 2x50% FD /GR fans, air heater, soot blowers, etc. • MITSUBISHI STG with H, IP and LP cylinders, H2 cooled Generator and FRANCO TOSI river water cooled Condenser with C.H. ZIKESCH GMBH. HP, SULZER LP Steam Bypass systems. • ANSALDO STG with H, IP and LP cylinders, H2 cooled Generator and river water cooled Condenser with REXROTH HP/LP Steam Bypass systems. • BOP including 7 stage regenerator feed water heaters, circulating water, 2x50% MFWP and 1x100% TFWP, closed cooling water, compressed air, EDG, fuel handling, ball cleaning, aux boiler and TELEDYNE ENERGY H2 production systems.
Job title	:	Deputy Head of Operations Department
Job Description	:	<ul style="list-style-type: none"> • Leading and coordinating station operation activities. • Managing and prioritize work loads. • Making analyses for operation trouble-shooting. • Preparing procedure for systematic and sequential pre-commissioning, commissioning, start-up of plant after maintenance from the engineering, technical documents and vendor information. • Supervise work according to routine maintenance schedules for plant and equipment. • Ensure the setting up of safety and precautionary requirements and procedures are followed before, during and after maintenance. • Making daily technical reports about the unit's abilities & efficiencies for Operation Manager. • Team leader & coordinator of operation activities schedules with other internal departments and with the dispatch center. • Provide effective support to the team to maximize the contribution made to the plant objectives. • Delegates effectively and creates a work climate where people succeed and empowers people to take action. • Demonstrates the ability to influence events and achieve objectives to time and budget. • Hold regular review meetings with the maintenance departments to resolve any equipment related problems. • Trainer for operation engineers.

Dates : From Oct. 2007 till Jan. 2008
Employer : KOCH/SIEMENS Consortium
Project : Al Naserria Power Plant Extension, Syria
 Combined Cycle Plant comprising:

- 3 Fiat Avio gas turbines, 115MW each.
- One Siemens Steam Turbine 150MW with HP & LP casing.
- Siemens Air Cooled Generator.
- HP & LP bypass system.
- Direct contact jet condenser cooled by dry air cooling tower.
- NEM HRSG with HP & LP drums and forced recirculation pumps.
- BOP including: HP & LP feed water pumps, RO Demi plants, condensate polisher, raw and sanitary water systems, etc.

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

- Responsible for conducting plant start-up activities during the shift.
- Maintain efficient power plant stability during performance, reliability and guarantee tests.

Dates : From Nov. 2005 till Oct. 2007
Employer : Upper Egypt Electricity Production Company (UEEPC)
Project : Assiut Thermal Power Station
Job title : Deputy Head of Operations Department

Dates : From Mar. 2002 till Nov. 2005
Employer : Upper Egypt Electricity Production Company (UEEPC)
Project : Assiut Thermal Power Station
Job title : Shift Charge Engineer
Job Description :

- Making daily technical reports about the unit's abilities & efficiencies for Head of Operation department.
- Supervise and distribute work during the shift.
- Receive and carry out instructions from the power station management.
- Brief, instruct and train subordinate staff according to instructions issued.
- Issue switching instructions prior to issuing a permit to work.
- Carry out, supervise and ensure that safe and proper switching is carried out.
- Issue Permit-to-Work, Sanction-for-Test and Limitation-of-Access in accordance with regulations.
- Carry out switching as authorized by the management.
- Maintain files and records of instructions, memoranda, etc. in good order.
- Supervise personnel safety and report all hazardous events and accidents.
- Report verbally and in writing, any faults that have occurred.
- Keep records of operations, faults, switching, hydrological conditions, etc.
- Attend to faults that have occurred in order to rectify them himself or call for assistance as soon as possible (with due regard to instructions issued).
- Handing over the plant from maintenance in line with the operation schedules and requirements.

- At shift change, inform the next shift about the current operating situation, orders, issued Permits-to-Work and any other matters that are necessary to know for the operation of the power station.
- Anticipating and responding effectively to operational demands and assist in achieving safe and efficient generation and maintain power plant stability.
- Connect & disconnect electrical circuit.
- Administrative executive for the shift.

- Dates** : From Apr. 1994 till Mar. 2002
- Employer** : Upper Egypt Electricity Production Company (UEEPC)
- Project** : Assiut Thermal Power Station
- Job title** : Operation Shift Engineer
- Job Description** :
- Supervising casual labourers, entrepreneurs' staff, etc.
 - Checking round the plant according to instructions, taking readings of instruments, gauges, etc.
 - Lubricating, cleaning, adjusting and carrying out minor maintenance work on equipment and machinery, as specified in the scheduled maintenance chart or as instructed by the Shift Charge Engineer.
 - Assisting the Shift Charge Engineer and the Control Room Technician with operation of switching apparatus that cannot be remotely controlled from the Control Room, trouble-shooting, etc.
 - Assisting the Shift Charge Engineer in operational duties outside the Control Room.
 - Reporting abnormal observations, faults, etc. to the Shift Charge Engineer.
 - Carrying out any other duties or instructions delegated.
 - Making quality decisions and exercise sound judgment.
 - Control of active and reactive power, voltage, current, temperature, etc. according to settings.
 - Start-up, synchronize, lead and shut down units as required.
 - In case of system disturbance, normalization of system through safe and accepted switching procedures.
 - Perform all switching that can be done from the control room.
 - Monitor, control, record and report indications, alarms, trips, faults and abnormalities observed.
- Further Experience** :
- In long maintenance period works as Assistant Maintenance Engineer in parallel with my basic work.
 - Co-operating with Mitsubishi Company in internal chemical cleaning of 1085 Ton/hour water tube boiler.
 - Working in external chemical cleaning of super heaters & re-heaters of 1085 ton/hour steam generator.
 - Working in internal chemical cleaning of condenser tube side.
- Field of experience** :
- Experience in fossil fuel power plants from testing through start-up and operation, he is an expertise in this field.
 - Has also the complete knowledge and experience in electrical, I&C, firefighting, HVAC and hydrogen generation systems start-up and operation requirements.

- Is capable to prepare and put in order the complete turnover packages for different systems and to execute their performance testing.
- Control systems experience:
 - ABB INDUSTRIAL IT- PGP version 4.1 service pack 3.
 - Yokogawa Centum CS 3000.
 - ABB INDUSTRIAL IT - 800XA SV5.1.
 - Xp teleperm (TXP).
 - Tlan – 90 PCV 4.3C (QNX).
 - Tosbac 7/40E.