

Holds a B. Sc. in Electrical Power Engineering and has about 14 years hands-on experience working in construction, commissioning, start-up and maintenance of power plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/02/1975
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Electrical Power Engineering, Al-Azhar University, 2001

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Training with SIEMENS in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up and Maintenance for 4 Gas Turbines (generator, excitation, protection and auxiliaries).
- : Training with MHI in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up and Maintenance for 2 Steam Turbines (generator, excitation, protection and auxiliaries).
- : Training with Toshiba in Sidi Krir Site (Sidi Krir Power Station 750MW Combined Cycle) in Commissioning, Start-up, Operation and Maintenance for (BOP) Closed Cooling System, Condensate System, Circulating Water System, Service Water System, Demine Water System, HP and LP Feed Water System, All Sump Pumps, Cathodic Protection, Trash rack system, service gas System, Fire fighting system (Zener Company), Fuel oil treatment (GEA Westfalia Company).
- : Training with ZTR in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up, Maintenance and Operation for Transformers (Power Transformer 16.5/500KV - 300MVA, Auxiliary Transformer 16.5/6.3/6.3KV - 32MVA and Tie Transformer (Auto Transformer) 500/220/11KV).

- : Training with AREVA in Sidi Krir Site (Sidi Krir Power Station 750MW Combined Cycle) in Commissioning, Start-up, Maintenance and Operation for Transformers (Power Transformer 21/500KV - 300MVA, Auxiliary Transformer 21/6.3/6.3KV - 32MVA).
- : Training with CONISYS in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up, Operation and Maintenance for 500KV (AIS) Switchyard (SF6 Circuit Breaker, Disconnect Switch, Earth Disconnect Switch, Potential Transformer and C.T's).
- : Training with ABB in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up, Operation and Maintenance for 220KV (AIS) Switchyard (SF6 Circuit Breaker, Disconnect Switch, Earth Disconnect Switch, Potential Transformer and Current Transformer).
- : Training with Schneider Electric in Nubaria Site and Sidi Krir Site (Sidi Krir Power Station 750MW Combined Cycle) in Commissioning, Start-up, Operation and Maintenance for MV Switchgear (6.3 KV) Circuit Breakers 6.3KV and MCC (Circuit Breakers 400V).
- : Training with GUTOR (by Schneider Electric) in Sidi Krir Site (Sidi Krir Power Station 750MW Combined Cycle) in Commissioning, Start-up, Operation and Maintenance for DC System (Batteries, Battery Chargers, UPS and BMS).
- : Training with INITEC in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up, Operation and Maintenance for DC System (Batteries, Battery Chargers, UPS).
- : Training with CompAir in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) and Sidi Krir Site (Sidi Krir Power Station 750MW Combined Cycle) in Commissioning, Start-up, Maintenance and Operation for (Service air Compressors, instrument air compressors and air dryers).
- : Training with METITO Company in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up, Maintenance and Operation for (water treatment) in the following plants: Demineralization Plant, Pre-Treatment Plant, Sewage Treatment Plant, Potable Water System, Waste Water Treatment System, Chemical Injection System, Steam water Analysis system.
- : Training with MDEPC in Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Maintenance and Protection for (Generators, Transformers, 500 and 220KV Switchyard and 6.3KV Switchgear).
- : Training with ALSTOM in Indonesia for 30 days, then Nubaria Site (Nubaria Power Station 1500MW Combined Cycle) in Commissioning, Start-up and Maintenance for HRSG (motors, valves, electrical panels, instruments).
- : Steam Turbine Speed Tonic Mark V control training with GE.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2015 till now
- Employer** : El Sewedy Electric with GE Company
- Project** : Fast track project (GE gas turbine TM2500 (20x25MW))
(consists of 10 power plants, each power plant consist of 2 units, type of units: GE gas turbine TM2500 (20x25MW), also the power plant consist of MV (11KV) Switchgear, LV (400V) MCC (EMAS), Power Transformer (35MVA Sewedy transformer)

Job title : Electrical Manager

Dates : From Jan. 2014 till Dec. 2014

Employer : Middle Delta Electricity Production Company

Project : Nubaria Power Station (2250MW), Module 3
(consists of 2 modules (2x750MW) CC, each module consists of 2 CTG (SIEMENS), 1 STG (Mitsubishi) and 2 HRSG (Alstom), then one module (750MW) consists of 2 CTG (GE), 1 STG (Alstom) and 2 HRSG (STF), 500KV AIS Switch Yard (HITACHI) and 220KV AIS Switch Yard (ABB) and MV (6.3KV) Switchgear, LV (400V) MCC (Schneider) BOP (CP-117 & CP-118) (INITEC), Power Transformer (ZTR))

Job title : Senior Electrical Maintenance Engineer

Dates : From Feb. 2013 till Dec. 2013

Employer : [EGYPTROL](#), DOOSAN HEAVY INDUSTRIES & Construction Co. Ltd. Subcontractor

Project : El Ain Sokhna Supercritical Thermal Power Plant 1300 MW (2x650MW):

- Supercritical Thermal Boiler (DOSSAN)
- Steam turbine generators (HITACHI)
- BOP (CP-117 & CP-118) TECNET
- MV (6.3KV) Switchgear, LV (400V) MCC (EGMAC)

Job title : Electrical Construction Engineer

Dates : From Jan. 2010 till Jan. 2013

Employer : [EGYPTROL](#), TOSHIBA/TOYOTA Subcontractor

Project : Sidi Krir Power Plant (750MW):
Consisting of 2 Gas Turbine Generators (Mitsubishi) with total power 500MW, 1 steam turbine generator (Ansaldo) with total power 250MW, 2 HRCG (Nem), BOP (CP-117 & CP-118) (Toshiba), 500 and 220KV GIS Switchyard (SIEMENS) and MV (6.3KV) Switchgear, LV (400V) MCC (Schneider) Power Transformer (Areva).

Job title : Commissioning, Start-up & Site Warranty Manager

Job Description :

- CP-117 Contract Electrical Commissioning Engineer.
- CP-117 Contract Electrical Operation Engineer.
- CP-117 and C-118 Contracts Instrumentations Commissioning Engineer.

Dates : From Jan. 2009 till Dec. 2009

Employer : Mesaieed Power Company Ltd. – Qatar
(Mesaieed Power Company Ltd. is Qatari Company for energy production with total power of 2250MW)

Project : The power plant is consisting of 6 gas turbine generators (GE) with total power 1500MW, 3 steam turbine generators (GE) with total power 750MW. In addition to 2 black starting generators (40MW / unit) and 6 HRSG (Alstom), 500 and 220KV GIS Switch Yard (Areva), MV (6.3KV) Switchgear, LV (400V) MCC (ABB) and Power Transformer main, auxiliary and tie (ABB).

Job title : Commissioning & Start-up Engineer

- Dates** : From 2002 till Nov. 2008
- Employer** : Middle Delta Electricity Production Company
- Project** : Nubaria Power Plant (3x750MW):
(consist of 2 modules (2x750MW) CC, each module consists of 2 CTG (SIEMENS), 1 STG (Mitsubishi) and 2 HRSG (Alstom), then one module (750MW) consists of 2 CTG (GE), 1 STG (Alstom) and 2 HRSG (STF), 500KV AIS Switchyard (HITACHI) and 220KV AIS Switchyard (ABB) and MV (6.3KV) Switchgear, LV (400V), MCC (Schneider) BOP (CP-117 & CP-118) (INITEC), Power Transformer (ZTR))
- Job title** : Commissioning, Start-up & Electrical Maintenance Engineer
- Field of experience** :
- Erection & Commissioning and Start-up for GE Gas turbine (TM2500).
 - Erection & Commissioning and Start-up for CTG (Generator, Motors, Auxiliaries, Types of Starting Units (SFC, LCI and Starting Motor), AVR and Excitation).
 - Erection & Commissioning and Start-up for STG (Generator, Motors, Auxiliaries, AVR and Excitation).
 - Erection & Commissioning and Start-up for power Transformers.
 - Erection & Commissioning and Start-up for Switch Yard (500KV, 400KV, 220KV and 132KV Air Insulated Switch Yard (AIS) and Gas Insulated Switch Yard (GIS) include (SF6 Circuit Breaker, Disconnecter Switches, Earth Disconnecter Switches, Potential Transformer Current Transformer, Live Line Washing System).
 - Erection & Commissioning and Start-up for MV (6.3 and 10KV) Switchgear and LV (400 and 220 V) Motor Control Center (MCC).
 - Erection & Commissioning and Start-up for Fire Fighting System.
 - Erection & Commissioning and Start-up for HVAC System.
 - Erection & Commissioning for Earthing System and Lighting System.
 - Erection & Commissioning and Start-up for DC System (Batteries, Battery Chargers, UPS and BMS).
 - Erection & Commissioning and Start-up for Supercritical Thermal Boiler.
 - Air System (FD FAN & GR FAN, GAH, Sealing Air Fan, Purge Air Fan and Scanner Cooling Air Fan).
 - Burner Management System BMS (Main fuel gas, ignition, mazout oil, flam detector and spark igniter).
 - Erection conduits, cable tray.
 - Cable pulling according to (cable schedule) and Termination according to cable connection diagram (CCD).
 - Instrumentation calibration for (TT, PT, PDT, FT, LT) and Commissioning for valves (control valve – Siemens positioner, ABB positioner, flowserve positioner) retorck valve, auma valve and all pneumatic valves.
 - Commissioning (LOOP CHECK and FUNCTION TEST).
 - Erection & Commissioning and Start-up for Sootblower system, CEMS, ERV, VMS, TSMS and metal TC, field bus.
 - Preparation of MRR, issuance of change notices and punch list.
 - Preparation of Check list, working processing, Turn over package to Owner and PEGASCO.
 - Preparation and Erection all electrical equipments.
 - Commissioning and Start-up Engineer.
 - Maintenance Engineer and Site Warranty Engineer.

- Fast Troubleshooting in case of Breakdown / Major Fault in Electrical System.
- Good decision making power & good communication skill that helps me in understand the problem, fast Troubleshooting quick restoration of power and emergency handling.
- Rich maintenance experience of working in power plant.
- Supervision of the execution the contract.
- Reading any P&ID, Single line diagram and electrical drawing.
- Comply with all safety requirements, applying all rules and procedures.
- During Construction Period:
 - Preparation of MRR (Material Receiving Report) after Site inspection for all Electrical Equipment (Cables, Cable trays, Motors, Transformers, Generators, Accessories and Protection Panels, Distribution Panels and All Auxiliary Systems related to the Project).
 - Issuance of Change Notices according to the Project Conditions and study of Contractor Change Request and Punch List Items for Site Work and follow up the Contractor Action.
 - Factory inspection and testing for many Electrical Equipments such as Medium and Low Voltage Cable, 500KV bare Conductors, Distribution Transformers, Medium and Low Voltage Switchgear, Motor Control Centers (MCC), Protection Panels, Isolated Phase Bus duct (IPB), AC and DC Distribution Panels.
 - Follow up Construction Activities for all Electrical Equipments installed in the Site such as Temporary Construction Power, Grounding Grid, Medium & Low Voltage Cables, 500KV Air insulated switchyard (AIS) & (GIS), 6.3KV Medium Voltage Switchgear, Low Voltage Load Center, Motor Control Center, Batteries, Battery Chargers, DC & UPS System, Power Transformers (Main & Auxiliary), Gas Turbine Generators, Generator Circuit Breaker (GCB) and its Accessories, Distribution Transformers, Lighting System, Surge Arrestors.
- During Commissioning and Start-up Period:
 - Testing and commissioning for Generators such as Stator and Rotor (Megger High Potential and Winding Resistance) & Excitation System and Starting (SFC, LCI and Starting Motor) and generators Auxiliary (GCM, PDM and AVR).
 - Testing and commissioning for power Transformers Main & Auxiliary (Insulation (Megger), DC Resistance, Turns Ratio, Tan δ) and Mechanical Protection Relays Tests (Buchholz Relay, Pressure Relief Device, Rapid Pressure Device).
 - Testing and commissioning for the 500KV Air Insulated Switchyard (AIS) & 400KV (GIS) - circuit breaker, CTs, VTs and disconnecting switches (Megger, DC Resistance, Contact Resistance, Timing, Tan δ , SF6 Dew Point, Trip and Alarm SF6 Values).
 - Testing and commissioning for 6.3KV Switchgear, SEPAM Protection Relay, 6.3KV to 0.4KV Dry Type Transformers, 400V Load Center, MCC and Emergency Diesel Generator.
 - Testing and commissioning for DC System (Batteries, Battery Chargers, BMS & UPS).
 - Testing and commissioning for MV Cables (Megger) and MV, LV Motors (Megger, Phase Rotation and Heat Run with (No Load and Load).
 - Testing and commissioning for Differential Protection System -

- Primary injection for Main & Aux. Transformer Differential Protection, Generator Differential Protection and Busbar Differential Protection before Energizing.
- Overall commissioning of the Plant (Interfacing between the different systems such as Interlocking, Status Signals, Alarms, Trip Signals and CT & VT Signals).
 - Preparing and reviewing with all related Contractors and Dispatch Center, the Energization Procedures for the Plant starting with Switchyard Energization and then back energize the main & aux. transformers to energize the M.V Switchgear and after that starting up Unit and Synchronization.
 - Testing and commissioning for the POB (Fire Fighting System with ZENER Company HVAC System with SEMCO, Air Compressors, Cathodic Protection, all LCP, all Drain Valves, Trash Rack System, Fuel oil treatment GEA Westfalia Company and Gas Station).
 - Providing Fault Analysis and Troubleshooting Procedure for many problems appeared.
 - After TOAC (During Warranty Period):
 - Finishing the Punch List Items and all Punch Items of TOAC by working with Owner and Other Contractors and working with any vendor (TA) in the Site.
 - Receiving the spare parts in site and review it according to packing list and received to owner and follow up the warranty defect notice such as:
 - Receive Warranty Defect Notice (WDN) from the Owner's O&M Representative.
 - Investigate WDN defects and repair or replace the defective parts.
 - Re-test, as required, the repaired or replaced parts/equipment.
 - Prepare and submit a Defect Report (DR) with cause of the defects and resolution.
 - Preparing and review the spare parts list for two years of operation for all equipment.
 - Preparing maintenance programs for (generators, auxiliary systems, power transformers, HV switch yard, MV switch gear, LV motor control center and all other auxiliary systems.
 - Follow up the maintenance programs periodic inspection for electrical equipments, analyze, and troubleshooting all faults and errors.
 - Preparing the daily and weekly report for all equipments status in plant.
 - Maintenance:
 - Preparing and review the Spare Parts List for all Equipments.
 - Preparing Maintenance Programs for Generators, Auxiliary Systems, Power Transformers, HV Switchyard, MV Switchgear, LV Motor Control Center and all other Auxiliary Systems.
 - Follow up the Maintenance Programs Periodic Inspection for Electrical Equipments, analyze and troubleshooting all Faults and Errors.
 - Maintenance of Electrical Equipments for Power Generation and Distribution.
 - Troubleshooting in case of breakdown / fault in electrical system and fault analysis.

- Handle daily routine jobs, spares planning co-ordination with other Departments, Safety Awareness Training for Subordinates, team work, toolbox talk & housekeeping.
- Handle independent job with full safety precaution, supervision & manpower control.
- Power Distribution S.L Diagram, Schematic Drawings, Electrical Protection System & interlocks. Good knowledge of cathodic protection and hazardous area equipments.
- Procurement of materials and manpower for maintenance activities, preparing maintenance Work Procedures, Action Plan, updating and correcting Technical Manuals and Drawing, maintenance all Records & Documentation for Power Plant Electrical System.
- Handle PM and Major Planning Shutdown Activity, Spares Planning, Troubleshooting for Power Generation and Distribution System.
- Corrective and Preventive Maintenance for the following: Generators, Auxiliary Generators, GCB, Minor inspection for Stator and Rotor, Power Transformers, HV Switchyard, MV Switchgear, LV Motor Control Center, MV & LV Motors, DC system, Protection systems, Air Compressors, Trash Rack System, Fire Fighting System, Fuel oil treatment, HVAC System, Cathodic Protection, EDG, LCP and etc.