

103905-ELE-125DEMOT-E-2004

Electrical Maintenance Engineer

Holds a B. Sc. in Electrical Engineering and has over 15 years hands-on experience with background in protection design. Experience in control and protection schemes, troubleshooting and experience in power systems high voltage equipment installation and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/11/1982
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electrical Engineering, Alexandria University, 2004

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2013 till now
Employer : Middle Delta Electricity Production Co. (MDEPC)
Project : Nubaria Power Station
Job title : Electrical Maintenance Engineer
Job Description : Maintenance of 500KV Switchyard and 220KV Switchyard HV apparatus and schemes related to generation feeders and OHTL feeders and also maintenance of 500/220/11KV 500 MVA tie transformers.

Dates : From Dec. 2016 till Jan. 2017
Employer : [EGYPTROL](#), SIEMENS AG Subcontractor
Project : AL-BURULLUS 4800MW Combined Cycle Project
Job Description :

- Commissioning for the low voltage system for units 42/41/32/31.
- LV MCC and AC/ Distribution Boards, Batteries and Battery Chargers, LV Equipments and motors and LV cables.

Dates : Jun. 2015
Employer : Elsewedy
Project : GE TM2500 Fast Track Mega Project (500MW)
Job Description : Commissioning of eight units in four Different places for Main Transformer and MV SWGR Protection and interlocking and interface with the existing substations. Testing of MV cables.

Dates : From Jun. 2007 till Jun. 2013
Employer : Altoukhi Company for Industry and Trading (TIT) – KSA
Job Description :

- Bidding Department:
 - Study the project (tender) and determine the scope of work.
 - Perform the required calculations to evaluate the materials, equipments, tools, spare parts, subsystems and manpower required for the project.
 - Coordinate with project owner/consultant for any clarifications and arrange for meetings and site visits if required.
 - Determine the project milestones to give each activity and equipment the suitable finalizing and delivery date.
 - Finalizing the Request For Quotation of each equipment/subsystem
 - Communicate with suppliers for the correct and proper materials and prices.
 - Prepare and review the bidding technical offer
 - Filling the pricing schedules.
 - Assist and help finalizing the cost sheets.
 - Carry out the post bid clarifications meeting with owner/consultant to settle all points.
 - This job has been carried out during this period for many projects and among these projects the following:
 - ❖ Wdi Aldawasir open cycle power plant - Central region, Two Units 50-55MW with 132KV Substation Extension and Medium voltage switchgear.
 - ❖ Rabigh Power Plant Extension 12 Units 50–55MW.
 - ❖ Riyadh PP10. Power plant no 10 in Riyadh central region 40 units 50-55MW open cycle project ready for operation in future as combined cycle.
 - ❖ Gizan Power Plant Extension unit no. 25 to unit no. 30 55MW units.
 - ❖ Riyadh PP8 Power plant no 8 cooling project TIAC system.
 - ❖ Najran, Sharourah and Wadi Aldawasir Extension project two units each location 55MW.
 - ❖ 380KV and 132KV Substations projects in Central, East and West Operation Area.
- Engineering Department:
 - Engineering of power generation and substations projects. Carryout the Engineering coordination job between TITC (contractor) and owner SEC and suppliers/vendors and consultant/engineering department during the project.
 - Study/determine the Project scope of work and technical specifications and clarify/settle all issues with the client.

- Perform the required calculations and furnish the project SLD and relay and metering diagram and perform sizing of different equipment in the project such as transformers and cables.
- Review and comment all vendors' submittals and coordinate between vendor and the client consultant.
- Furnish the equipments/subsystems purchase orders.
- Prepare the project cable schedule and termination schedule (protection and control).
- Prepare the as built drawings for the project.
- Engineering for more than one project at same time.
- Follow-up submittals till the approval and getting of the Issue For Construction revisions and coordination with site activities and concerned key persons to carry out the site job according to approved drawing and final agreements with client.
- Coordination with suppliers for shipping/delivery, supervision, testing, training and spare parts.
- This job has been carried out during this period for many projects and among these projects the following:
 - ❖ 380KV and 132KV substation Projects in the Central Region such as Riyadh PP10 substation, Azizia, Manfouha, Olaya, Nassem and other locations.
 - ❖ 380KV and 132KV substation Projects in the West Operating Area such as Makkah 380/132KV Substation with Eight Remote Ends and Madina 380KV Substation Project.
 - ❖ Tabook Power Plant Project in West Operating Area two Units 55MW.
 - ❖ Wai aldawasir Power Plant Project in Central Operating Area two units 55MW.
 - ❖ Faras Power Plant Project in East Area four Units 125MW Project.
 - ❖ Tihama Power Plant Project in South Area two Units 55MW.
- Site Job: Wadi Al Dawasir Power Plant Project (two units GE-7EA with 132KV Substation Extension and Medium voltage / low voltage switchgears):
 - Commissioning of the new extension in the 132KV GIS (the two units connected to one GIS bay).
 - Commissioning of the protection and control panels and interlocking of the generation side.
 - Commissioning of the MV and LV switchgears.
- Project: Tabook Power Plant Open Cycle - Western region (two Units GE - 7EA with 132KV Substation Extension and Medium voltage / low voltage switchgears):
 - Study the project protection requirements, determine the scope of supply and finalizing placing orders. Coordination between different suppliers and between suppliers and the client requirements.
 - Preparing of project one line diagram and 132KV/4.16KV logic diagrams for the client approval.
 - Furnish the Project cable schedule and termination schedule for protection and control.
 - Carry out the Cold/hot Loop checking, intertripping/interlocking test and function test and stability test at site for the units.
- Project: Four nos. Substation Projects in Riyadh 132KV/13.8KV

(Manfouha, Olayia, Alshumaisi and 2nd industry Area):

- Finalize of Protection Logic Diagram (PLD) for 132KV and 13.8KV systems, issue for operational SLD and CT, VT SLD.
- Study the protection requirement and coordinate with Substation Automation System (SAS) for protection and control interfacing.
- Project: Wdi Aldawasir Open Cycle Power Plant - Central region (two Units GE - 7EA with 132KV Substation Extension and Medium voltage switchgear):
 - Modifying existing BUSBAR protection Scheme to accommodate the new extension, modifying interlocking and tripping Scheme, Function intertripping and interlocking test related to the GIS extension.
 - Loop checking and function and Stability test for the Busbar differential protection.
- Site Job: Faras Open Cycle Power Plant - Eastern region (four Units GE - 7FA with medium and low voltage switchgear and interfacing with 230KV substation double busbar air insulated):
 - Commissioning of the control and protection scheme in the project.
 - Intertripping and interlocking test and interface with substation.
 - Transformer stability test for Both GSU and UAT transformers.
 - Medium voltage, Busbar differential stability test.
 - Applying of the project final setting for all protective relays Generators, MV motors (Gas comp 5MW), transformers and switchgear.
- Site Job: Tihama Open Cycle Power Plant - South region (two Units GE - 7EA with medium and low voltage switchgear and interfacing with 132KV GIS):
 - Commissioning of the control and protection scheme in the project.
 - Intertripping and interlocking test and interface with substation.
 - Transformer stability test for GSU transformers.
 - Applying of the project final setting for all protective relays Generators, transformers and MV-LV switchgear.
- Site Job: Gizan Open Cycle Power Plant - South region (GE Units - 7EA with medium and low voltage switchgear and interfacing with 132KV GIS):
 - Commissioning of the control and protection scheme in the project.
 - Intertripping and interlocking test and interface with substation.

Dates : From Sep. 2005 till May 2007
Employer : West Delta Electricity Production Co. (WDEPC)
Project : Nubaria Combined Cycle Power Plant 1500MW – 4 Units Siemens 250MW, 2 Units Mitsubishi 250MW, with Substation 500KV / 220KV and Medium Voltage switchgear 6.3KV and station transformers
Job Description : Operation Engineer in the 500-220KV switchyard and 500/220/11KV tie transformers. Then operation of the steam turbine Mitsubishi 250MW coupled with two heat recovery steam generator (HRSG).

Dates : From Aug. 2004 till Sep. 2005
Employer : Lectro Company for Electrical Industries, Alexandria
Job Description :

- Low Voltage Panel Builder.
- Design/manufacture and installation of LV distribution boards up to

6000A.

- Design of Control circuits - Automatic Transfer Switches and motors starters, factory test of distribution boards and control circuits.

Field of experience :

- Commissioning:
 - Power Plant Projects (Control and Protection Schemes, Interlock, Intertrip and Interface work).
 - H.V Substations 500KV, 220KV and 132KV control and protection panels.
 - MV Switchgear, LV Switchgear and MCC.
- Engineering and Bidding: Perform the Engineering work for power plant projects. Study, evaluation and perform the required calculations for tenders related to generation and substation projects.
- Design of protection, control and interlocking schemes of power generation and substation projects.
- Finalizing of SLD, relay and metering SLD, protection Logic and interface between different subsystems in the project.
- Perform the Engineering work and activities for power generation and substation projects.
- Perform the Tendering work and activities for power generation and substation projects
- Study and review of SWGR schematic drawing MV and LV and finalizing of interfacing schedules.
- Apply settings on the protection relays.
- Stability test of transformer differential schemes, bus bar differential schemes, cable differential schemes.
- Testing of interlocking schemes, control and alarm schemes, synchronizing schemes, voltage regulating schemes, bus bar schemes and breaker failure schemes.