

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 9 years hands-on experience working as Protection, Testing & Maintenance Engineer and as Senior Electrical QC Engineer.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 27/03/1983
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2008

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Short circuit calculation and cable design using "Ecodial & Powerx software"
: Lighting design using "Dialux software"
: PLC programming using Siemens "Simatic S7 software"
: AutoCAD 2008

TRAINING COURSES AND CERTIFICATIONS

: IEEE – Egypt & EED (Electric Engineering Day) in these projects:
• Smart House & Smart Robot (in 2007).
• BMS (Building Management System) (in 2008).
: TOSHIBA certificate: completion of training course for SIEMENS SIPROTEC TRANSFORMER PROTECTION.
: SIEMENS certificate: completion of training THYRIPOL AUTOMATIC VOLTAGE REGULATOR (ERECTION AND COMMISSIONING).
: ICDL (Windows, MS Word, MS Excel, MS Power Point, MS Access, Internet, IT).
: Operation & Maintenance for Steam Turbine Power Plant, Abu Qir Power Plant (Mar./Apr. 2010).

- : Siemens training course for multifunction numerical protection relays (SIPROTEC), Sidi Krir Power Plant (Apr. 2010) by TOSHIBA & SIEMENS AG:
 - Test switch, trip circuit supervision and lockout relays.
 - Basics of DIGSI software including fault analysis.
 - Numerical protection, principle and hardware.
 - Principles of numerical protection SIPROTEC.
 - Current and voltage transformer tests.
 - Transformer differential protection.
- : Main Power Transformer and Auxiliaries, Sidi Krir Power Plant (Jun. 2010) by AREVA.
- : Generator Protection relay (MICOM), Sidi Krir Power Plant (Oct. 2010) by AREVA.
- : Power system protection, Development Research & Technological Planning Center (DRTPC) (Oct. 2010):
 - Fundamentals of power system protection.
 - Generator protection.
 - Transformer protection.
 - MV & LV motor protection.
 - Distance protection for transmission lines.
 - Bus bar protection.
- : On-shore operation and maintenance training for WATER and WASTE WATER TREATMENT package, Sidi Krir Power Plant (Jan. 2011) by METITO.
- : Generator protection, Abu Qir Power Plant (Feb. 2011).
- : Cathodic Protection System (Dec. 2011).
- : Modernization and replacement of AVR system (control of the excitation system) for Siemens power generator, Sidi Krir Power Plant (Jan./Feb. 2012) by SIEMENS.
- : Diesel engine unit maintenance and troubleshooting, Alexandria University (Apr. 2013).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2015 till now
- Employer** : PSP Elsewedy Electric in Egypt
- Job title** : Senior Elec. QC Eng.
- Job Description** :
 - Beni Suef Site Mega Siemens Combined Cycle 4800MW Power Plant (from Jan. 2016 till now):
 Follow up and inspect all activities related to gas & steam turbine power block, Siemens 500KV GIS system with outdoor gantry equipment, 500KV high voltage cable with sealing ends, and most of (BOP) balance of plant systems as (air compressor, water intake, MV/LV switchgears, gas station, etc.).
 The basic working time is 12 hrs/day for 6 days/week and at peak periods extends to 16 hrs/day.
 - Preparing the documentations for Beni Suef project as inspection test plan ITP and check lists for erection of all systems (power block-GIS-BOP-HV cable, etc...).
 - Preparing the documentations of method of statement, check lists and test record forms of testing and commissioning for GIS

- activities, HV cable, all balance of plant BOP systems, etc....
- Assist / coordinate the preparation of the final handing over documents such as QC/QA documents, testing and commissioning reports etc.
- Activate the documentations of Siemens Field Quality Plan (FQP), and List of Open Points (LOPs) at the site with coordination with our partner Siemens AG for issuing the pre-commissioning certificate named {Erection Completion Certificate (ECC)} for each system then, sign the turn over package (TOP) for handing over.
- Check and review all installation drawing and documentations used at the site for approvals and compliance with the project specifications and standard.
- Prepare weekly site observation reports, non-conformance reports and providing the corrective action and proper solution.
- Participate with the technical office discipline in issuing RFI & RFP.
- Ensure that all test equipment used are calibrated and with valid certificates.
- Review subcontractor quality document submittals (Quality Plans, Inspection Test & Plans, procedures), to ensure effective controls are in place in key areas.
- Ensure that the project activities are complied with the client, vendor and company quality control system requirements with the avoidance of any violation.
- Supervise and manage a team of QC Inspectors and establish a technical training for the QC engineers.
- Perform needed tests on site and in the laboratory to ensure conformity of material and works according to the contract specifications.
- Conduct inspections for all electrical material deliveries.
- Witness on FAT tests as dry transformers, mv/lv swgr, and diesel generators, etc.
- Conduct a walk down with the owner for closing the punch items.
- Earthing Systems:
 - Main grid exothermic welding- connection for Pigtails & Rebar- Ground Jumpers / Flexible Straps- Ground Rods and Pits- Grounding System Testing-all secondary earthing works.
- Duct Banks & Manholes:
 - The conduits in duct banks are installed according to the approved drawings including its earthing to main grid.
- DC System:
 - Supervision on batteries & DC system installation and witness on Bat. Discharge test.
- Cable Trays:
 - Check the cable trays, and ladders in accordance with the layout/routing drawing.
- MV/LV Cables:
 - Inspect the cables installation for pulling, arrangement, and cable termination as per project procedure and standard recommendations.
 - Witness on cable test as continuity, hi-pot, and insulation resistance IR tests.
- HV Cable 500KV:
 - Inspect the cables installation for pulling, arrangement, and

- Assist / coordinate the preparation of the final handing over documents such as QC/QA documents, testing and commissioning reports etc.
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- Check and review all installation drawing and documentations used at the site for approvals and compliance with the project specifications and standard.
- Prepare weekly site observation reports, non-conformance reports and providing the corrective action and proper solution.
- Ensure that all test equipment used are calibrated and with valid certificates.
- Supervise and manage a team of QC Inspectors and establish a technical training for the QC engineers.
- Conduct inspections for all electrical material deliveries.
- Inspect all activities related to GIS, GTs, BOP systems, etc....
- Conduct a walk down with the owner for closing the punch items.

Dates : From Mar. 2014 till Aug. 2015

Employer : ALFANAR for Testing And Commissioning (Saudi Arabia)

Job title : Electrical Protection & Testing Engineer

Job Description : Commissioning and testing activities in the following sites as in Jeddah Jeddah Central 380/110/13.8KV substation, and Jeddah South Thermal Power Station 380KV, and in Dammam Al-Omran 380/110/13.8KV substation, Second Die 110/13.8KV substation, and Al-nada substation, and in Riyadh Elsewedy substation:

- For 380 & 110KV GIS SWITCH YARD & RELAY ROOM:
 - Pre-check and scheme function test as interlocking between circuit breakers, line and bus disconnectors and earth switches in line, bus coupler and bus section.
 - Testing of line protection advanced relays as SIEMENS SIPROTEC 7SA522 & ABB RED670 for line distance protection and SIPROTEC 7SD522 for short line distance and differential protection as (Zone reach and timing by FREJAWIN software - Teleportation communication scheme like Permissive under reach PUTT, over reach POTT, Blocking and Week infeed scheme functions - Switch on to fault SOTF - Directionality - Fault locator - Power swing - Autorecloser - Synchrocheck - Directional earth fault - Backup over current - STUB bus function - Fuse fail - PT supervision - Line differential, 2nd harmonics blocking function with time of cross block function).
 - Testing of 110KV SYNCHROCHECK ABB REC670 relay.
 - Testing of power transformer protection relays as SIEMENS 7UT612.
 - Testing of CTs and VTs as (insulation test IR - CT loop and VT loop secondary injection test - testing of current transformers by OMICRON CT Analyzer - testing of potential transformer by OMICRON CPC100).
 - Testing of bushing CTs by CT Analyzer on power transformer like a

three winding auto transformer 380/110/13.8KV and power transformer 110/13.8KV.

- SF6 gauge calibration and SF6 gas analysis by DILO KIT.
- 10KV hi-pot test for GIS line and bus disconnectors DS and earth switches ES by HAEFELY HIPOTRONICS high voltage tester.
- Circuit breaker testing as, insulation resistance, contact resistance and timing.
- For MV 13.8KV SWITCHGEAR:
 - Testing of CTs and VTs as (insulation test IR - Testing of CTs by OMICRON CT Analyzer - Testing of VTs by OMICRON CPC100).
 - Circuit breaker VCB testing as insulation resistance, contact resistance and timing.
 - Testing of digital meters.
 - Testing of over current protection relays as SIEMENS 7SJ.
 - Testing of medium tension cables 13.8KV (insulation resistance and VLF HI-POT test).

Dates : From Aug. 2008 till Mar. 2014

Employer : WDEPC (West Delta Electricity Production Company)

Project : Sidi Krir Power Plant

Job title : Electrical Protection, Testing & Maintenance Engineer

Job Description :

- Testing all protection relays by FREJA and omicron CMC 256 secondary injection equipment as:
 - Generators SIEMENS SIPROTEC multifunction numerical protection relays and programming it by DIGSI 4 software.
 - Power Transformers SIEMENS SIPROTEC numerical protection relays.
 - 6.3KV Switchgear GE MULTILIN numerical protection relays and programming it by GE Ener Vista.
 - SEL S21 and MICRO MHO for distance protection of 220KV transmission lines.
 - All protection functions of 220KV circuits.
- Maintenance of Siemens excitation system of the main generator (familiar with schematics, drawing and troubleshooting).
- Assistant, Participant and Coordinator in all erection, commissioning and installation work of AVR system (control of excitation system) for Siemens power generator (modernization and replacement project at Jan. 2012).
- Siemens synchronous generator routine tests (insulation resistance measurement of stator and polarization index PI - winding resistance measurement - dissipation factor DF (tan delta) for stator winding).
- Maintenance and troubleshooting of AREVA power transformers for seven months, in the New Sidi Krir Combined Cycle Power Plant.
- Power transformer tests (TR Ratio - DC winding resistance - insulation resistance measurement - excitation current - dissipation factor DF (tan delta)). All tests are performed by OMICRON (CPC100). All tests and diagnostics are according to IEEE and IEC recommendations.
- Transformer Insulating oil tests and diagnostics are according to ASTM and IEEE recommendations as (Dissolved gas analysis by GE Kelman TRANSPORT X*portable DGA - Tan delta - dielectric breakdown voltage - moisture content - Acidity - Interfacial tension - viscosity - specific gravity).

- Carry out all diagnostics and maintenance of Perkins diesel generator set.
- Carry out all diagnostics and maintenance of rectification units of hydrogen and hypochlorite production units.
- Assisted in evaluation of tenders and reviewed contract tender document.
- Reviewed submittals, transmittals received from contractors.
- Interface, assisted and coordinated the review/approval of technical issues embodied in contract documents.