

105148-ELE-1S-E-2011
Senior Testing & Commissioning Engineer

Holds a B. Sc. in Electrical Engineering and has more than 4 years hands-on experience working in testing and commissioning at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/06/1989
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Electrical Engineering, Alexandria University, 2011

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: MS Project
: E.3 Ecodial, Etab
: Dialux & Calculux

TRAINING COURSES AND CERTIFICATIONS

- : Electrical construction concept (Ecodial, Dialux, Etab, Calculux).
- : Training at ABB in Switzerland on GIS (Dec. 2013) about:
 - Lectures about functions and features of the GIS main components.
 - Drawings (gas schematic diagram, wiring schemes).
 - Working principle and testing of SF6 density supervision system.
 - Local control cabinet architecture, circuits, functions and testing.
 - Commissioning tests on GIS hardware, general and project specific procedures.
 - Measuring tools and instruments, instructions how to use.
 - Practical exercises about commissioning of ELK 3/420c.
 - Reporting and protocols, site inspection and test protocol (SITP).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2013 till now
- Employer** : Elsewedy Electric PSP, Cairo, Egypt
- Job title** : Senior Testing & Commissioning Engineer
- Job Description** :
- Identify systems to be commissioned.
 - Create schedule of commissioning activities for each stage of the process.
 - Review and revise project drawings and schematic diagrams.
 - Lead and perform power plant / substation commissioning activities.
 - Review and test plant interlocking (powerhouse - Substation).
 - Responsible of preparing red marked copy and as built drawing for all involved systems.
 - Completing operating and maintenance manuals, record drawings, software and test certification.
 - 1300MW El-Sokhna Thermal Power Plant, 2x650MW, Oil fired units, CP- 117 Contract:
 - Perform testing and commissioning for DC, AC distribution panels and also charger, inverter and batteries.
 - Perform testing the power transformer included (DC resistance, Turns ratio, Megger test and Tan Delta).
 - Perform testing the current transformers included (Megger, Turns Ratio, Polarity and Magnetization curve test).
 - Perform testing and commissioning for the protection and control panels.
 - Perform testing for generator circuit breakers included (micro ohmmeter, opening and closing timing and insulation resistance test).
 - Perform the stability test for the main and auxiliary transformers before the start-up.
 - Perform testing and commissioning for all interconnection and interlock signals for both units.
 - Perform testing of medium voltage cables included (Continuity, Megger and High pot test).
 - Perform testing of the isolated phase bus bar included Megger, High pot and Leak tests.
 - Perform testing dry transformers included Megger, DC resistance, Turns ratio and vector group tests.
 - Attendance of daily start-up meeting as a representative for CP- 117.
 - Perform maintenance for (MV Switch Gear, Load Center, Mccs, Dc & Ups).
 - Troubleshooting for (Switch Gear, Load Center, Mccs, Dc & Ups).
 - Follow Up Operation (Switch Gear, Load Center, Mccs, Dc & Ups).
 - Follow up energize for all systems.
 - 330MW Mahmoudia Simple Cycle Power Plant, 2x165MW Gas turbines, fast track turn-key project, execution period 3 months, Egypt:
 - 2 x160MW Gas Turbines with auxiliaries, ANSALDO Energia.
 - Common control building.
 - 2x160MW power transformers & 2x8MW auxiliary transformers. ETD.
 - 3x6.6KV metal cladding SWGR, SIEMENS.

- 220KV GIS, one and half bus bar arrangement, 4 Diameters, SIEMENS.
- Substation protection relays SIEMENS, SIEMENS SICAM PAS substation control system.
- West Damietta Power Project phase II, converting to combined cycle, CP-117 contract:
 - Supervise construction team during installation and termination of different power and control panels.
 - Support in SAS testing and commissioning.
 - Perform GIS equipment testing (CT, VT CB, Bushing, Surge arrester, CCVT...).
 - Carry out CT loop and VT loop Test.
 - Perform mechanical and electrical operation.
 - Perform LCC panels interlock testing.
 - Perform Bus bar primary injection and stability test.
 - Perform High voltage test and partial discharge test.
 - Perform testing and commissioning for DC, AC distribution panels and also charger, inverter and batteries.
 - Perform testing for MVSWGR included (C.B contact resistance, C.B timing, wiring check, functions, interlock test, bus bar insulation test, bus bar high pot test).
 - Perform Secondary injection test for protection MVSWGR relays included (over current, earth fault, short circuit and motor relays).
 - Perform testing for LVSWGR included (bus bar insulation test, wiring check, function and interlock test).
 - Perform testing the current transformers included (Megger, Turns Ratio, Polarity and Magnetization curve test).
 - Perform testing of medium voltage cables included (Continuity, Megger and High pot test).
 - Perform testing dry transformers included (Megger, DC resistance, Turns ratio and vector group tests).
 - Attendance of daily start-up meeting as a representative for CP-117.