

102764-ELE-14CMOSx-E-2003

Electrical Commissioning & Start-up Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and a Diploma in Power Station and Networks. Has over 19 years hands-on experience working in operation, commissioning, start-up and I&C.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 04/04/1981
Gender : Male
Marital Status : Married
Residence : Mahmoudia

EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Mansoura University, 2003
- : Diploma in Power Station and Networks, Kafr El-Sheikh University, 2016-2018

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : MS Visio
- : AutoCAD
- : MATLAB programming and simulink
- : PSCAD (power system computer aided design)
- : Pc-controlab3 (feed back control loop simulator)

TRAINING COURSES AND CERTIFICATIONS

- : Steam turbine, generator & condenser operation by ANSALDO TRAINING SCHOOL (May/Jun. 2010).
- : Horizontal pumps & vertical sump pumps system by plant systems & services corporation TOSHIBA (Mar. 2010).
- : Distributed control system (DCS) CENTUM CS3000R3 FUNDAMENTALS FOR OPERATION by corporation of YOKOGAWA (Feb. 2010).
- : SIPROTEC4 – NUMERICAL PROTECTION DEVICES by corporation of SIEMENS Germany (Power Academy) (Apr. 2009).

- : SICAM PAS TRAINING by corporation of SIEMENS Germany (Power Academy) (Apr. 2009).
- : Electrical devices corporation of Egyptian Navy (from Jul. till Oct. 2004).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2018 till Mar. 2021
- Employer** : BP
- Project** : West Nile Delta Onshore Gas Development Project
- Job title** : Electrical Commissioning & Start-up Engineer
- Job Description** :
- Working as SEC Commissioning Engineer to ensure that the Plant meets the design requirements-safely & reliably.
 - Review/Approval of Test Procedures.
 - Ensure compliance with Project Technical Specifications, International Standards, and OEM procedures and specifications.
 - Perform equipment walk-down, safety walk-down & ensure safe turnover of equipment from Contractor to Client.
 - Monitoring of functional and operational tests of various equipment's in order to prepare the equipment to the first start-up.
 - Review/Approval of engineering documents and drawings, ECC and CCC packages, as-built documents, etc.
 - Commissioning and testing of emergency diesel generator supplied by topic.
 - Verification of the compliance of test results with the design and reliability requirements.
 - Preparation of inspection reports, certificates, progress reports and site correspondence.
 - Preparation and follow-up on Punch.
 - Stability Test of Transformer, Generator & Cable.
 - Testing of Interlock & Intertrip Schemes.
 - Complete Component & Functional Testing of 6.6KV & 480V Switchgear.
 - Testing of MiCOM P122, P143, P127 Protection relays and Dead Bus Test.
 - Commissioning and start-up of VFD ABB AND Siemens types.
 - Site Acceptance Test of GUTOR DC Charger & UPS and battery bank system.
 - Site Test of LV and MV ABB AND Siemens Motors through no load and dynamic test.
 - Analysis of Transformer Oil Tests and tan delta and DC resistance.
 - HiPOT Test of Cables & Bus Ducts and LV and MV switchgear.
 - Primary Injection & Secondary Injection Testing.
 - Worked with cathodic Protection System.
 - Pre-commissioning and commissioning of small power and lighting circuits.
- Dates** : From Oct. 2017 till Apr. 2018
- Employer** : ENI
- Project** : Zohr Onshore Gas Development Project
- Job title** : Electrical Commissioning Engineer

Job Description :

- Commissioning in SCADA system of the 6.6KV switch gear and low voltage MCC and UPS supplied from Schneider Company.
- Working experience in LT Switchgears, protection of the switchgear, and maintenance of the electrical equipment's.
- Commissioning of the LT motors, Maintenance of the Motors.
- Installation and commissioning of the Batteries.
- Following-up of HT & LT Cable laying as per the cable schedules.
- Working Experience in Erection of Dry-Type Transformers.
- Working Experience in Erection LT Panels, MCC'S, and PMCC'S as per the approved GA Drawings.
- Supervised the erection of LT Bus ducts (Non-segregated, bus ducts).
- Supervised the Cable tray routing works for the total plant and design of the cable tray routing according to the site conditions at that time.
- Working Experience in Above ground earthing, Below Ground Earthing, Equipment's earthing Like Motors, LT Panels, Transformers, and all electrical equipment's.
- Working experience in construction of Earth Pits, Test Pits, Electronic Earth pits.

Dates : From Jan. 2015 till May 2015
Employer : Ansaldo Energia
Project : Banha Project
Job title : Operation Engineer for steam turbine 250MW

Dates : From Oct. 2012 till Oct. 2017
Project : New El-Atf Power Station 750MW Combined Cycle (2x250 gas turbine + 250 steam turbine units)
Job title : I&C Engineer
Job Description :

- Share on major overhaul inspection for steam turbine generator.
- Disassemble of all instrumentation as control valve actuators and vibration sensors.
- Calibration of pressure and flow transmitters and discrete process measurement.
- Adaptation of speed and thermocouples sensors and other maintenance practice.
- Control Systems I work on it:
 - Control Systems:
 - ABB corporation DCS (Symphony/Harmony).
 - Diasys netmation (MITSUBISHI HEAVY INDUSTRY LTD).
 - Overall plant DCS (CENTUM CS3000R3) YOKOGAWA Corporation.
 - SICAM PAS by corporation of SIEMENS.
 - RSlogic 500 PLC Allen Bradley Company.
 - RSlogic 5000 PLC Allen Bradley Company.
 - Simatic 200 PLC Siemens Company.
 - Simatic 300 PLC Siemens Company.
 - Schneider Unity pro.
 - HMI:
 - Power generation portal (PGP) version 4.1.
 - Diasys.

- CENTUM CS3000R3.
- WinCC.
- PanelView Component Terminals.
- Rsvi32 Factory talk view.
- Siemens Simatic WinCC Flexible (2008).
- Siemens Simatic WinCC Flexible.
- PCView.
- Applications:
 - Steam turbine generator control and configuration.
 - Gas turbine generator control and configuration.
 - HRSG and pop control and configuration.
 - GIS control and operation.
 - Tube cleaning and debris filter control and operation.
 - Water treatment.
 - Trash rack.
 - Gas compressor.
 - Hydrogen generation unit.
 - Traveling screen control and operation.
 - Controlling and operating of bypass system.
 - 6.6 switch gear.

- Dates** : From May 2009 till Oct. 2012
- Project** : EI-Atf Power Station
- Job title** : First Shift Engineer
- Job Description** :
- Sharing and following all installation and commissioning and operation works as:
 - 220KV switchyard GIS configuration was received by SIEMENS Company.
 - 21.5/220KV step-up main transformers were received by AREVA Company.
 - 21.5/6KV step down auxiliary transformers supplied by AREVA Company.
 - 6KV switchgear and load centers and MCC supplied by Schneider Company.
 - Sharing and following all installation and commissioning and operation works of gas turbine generator Frame M701F and its auxiliaries were received by MITSUBISHI HEAVY INDUSTRY.
 - Sharing and following all installation and commissioning and operation works of heat recovery steam generator supplied by NEM Company.
 - Sharing and following all installation and commissioning and operation works of steam turbine generator and its auxiliaries supplied by ANSALDO Company.
 - Sharing and following all installation and commissioning and operation of plant pumps as:
 - Closed cooling water pumps 6KV.
 - Main circulating water pumps 6KV.
 - HP/IP HRSG feed water pumps 6KV.

- Dates** : From Mar. 2007 till May 2009
- Project** : EI-Mahmoudia Combined Cycle Power Station (8x25MW GE gas turbines + 2x50MW GE steam turbines)

- Job title** : Shift Engineer
- Job Description** :
 - Unit start-up and shutdown procedures for HRSG supplied by NEM.
 - Monitoring recording parameters.
 - Testing the equipments.
 - Isolation and de-isolation procedures.
 - Safety work permit system.
 - Connect and disconnecting 220KV switchyard circuits.
 - Connect and disconnecting 6KV switchgear equipments supplied by ABB.
 - Following the major overhaul for gas turbine of General Electric unit's frame (5) 25MW and major overhaul for steam turbine of GE Mark V.
- Dates** : From Apr. 2006 till Mar. 2007
- Employer** : Abied Company
- Job Description** : Provide design & installation supervision consultant activities for the electrical systems in the new buildings.
- Dates** : From Oct. 2003 till Apr. 2006
- Employer** : Egyptian Navy Shipyard
- Project** : Military Service
- Job title** : Reservist Electrical & Electronics Engineer Officer
- Job Description** :
 - Providing day-to-day operation / maintenance services for electrical equipment / installations on Ships & Off-shore facilities installations.
 - Management of testing station and apply tests to electrical equipments such as:
 - High pot tester for insulation resistance tests.
 - Core losses tester for low voltage motors and generator.
 - DC motor and generator load tests using load bank.
 - AC motor and generator load tests using load bank.
 - Rewinding defective AC single and three phase motors.
 - Rewinding defective DC motors and generator.
 - Insulation rising of electrical devices.
 - Maintenances of DC and AC starters.
 - Maintenances of battery chargers.