

101861-ELE-145MOQSTYx-E-2004
Electrical Operation & Maintenance Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 22 years of experience in Operation and Maintenance, QA/QC E/I (Ex specialist), Testing, Pre-commissioning, Commissioning and Start-up for High Voltage/Medium Voltage equipment and protection systems at Oil & Gas development projects and power generation industry.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/04/1980
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Menoufia University, 2004

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Design and drawing using AutoCAD

TRAINING COURSES AND CERTIFICATIONS

: CompEx Certified (Ex01-Ex04) from INTERTEK ACADEMY.
: BP safety program that contains many safety subjects (BP).
: First aid and Rescue training (BP).
: Permit to work with Risk Assessments (BP).
: Certified EX from CompEX EX01-EX04 (Carlo Gavazzi Egypt).
: HITRA workshop training (BP).
: Isolation workshop training (BP).
: Authorized LV2 (to isolate all low voltage equipment) by British Petroleum BP's Site Authority (BP).
: SAP Program to maintenance plan (preventive & corrective & break down), TAQA ARABIA.

- : Generators and transformers protection, Egyptian Electric Holding Company (EEHC) (Apr. 2006).
- : Circuit breakers and transformers maintenance, Egyptian Electric Holding Company (EEHC) (May 2008).
- : Programmable Logic Controllers (P.L.C. Siemens S7 300), Egyptian Electric Holding Company (EEHC) (Jun. 2010).
- : Measurement transformer and feeder protection, Egyptian Electric Holding Company (EEHC) (Sep. 2010).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jul. 2024 till now
Employer : British Petroleum (BP)
Project : West Nile Delta (WND) Gas Development Project
Job title : Electrical Operation & Maintenance Engineer
Job Description :

- Plan, execute and supervise maintenance activities of BP WND facilities Power and Electrical distribution system and associated electrical equipment to maintain and improve plant maintainability, reliability and availability.
- Plan, support and supervise Electrical Maintenance team to maintain and improve WND plant facilities maintainability, reliability and availability.
- Provide intervention and problem solving for all Electrical equipment CM.
- Maintain the site HSE requirements through following PTW system, Risk Assessments (HITRA), isolation confirmation certificate ICC, Isolation / De-Isolation IDP Plan, Switching Plans and LOTO system.

Dates : From Nov. 2022 till Jun. 2024
Employer : Belayiem Petroleum (PETROBEL)
Project : Zohr Development Project
Job title : QA/QC E/I Team Leader (special Ex inspection)
Job Description :

- Planned, executed, and maintained for E/I, as well as inspected Ex devices and ensured compliance with international standards.
- Document preparation prior to Ex inspection (Area classification, Equipment drawing, IECEX Certificates, etc.).
- Doing Visual / Close / Detailed inspection on the different EX equipment based on IEC 60079 in all the systems such as F/G, Lighting, Junction Boxes, Motors, heat tracing, cathodic protection, power socket, ...etc.
- Review and approve all E/I material receiving, installation and testing procedures.
- Preparing all the ITR's (Inspection test reports) for the inspected equipment.
- Update the drawing (As built) if required.
- Developed and executed electrical control solutions for oil and gas project and inspected.

Dates : From Jun. 2021 till Oct. 2022
Employer : Carlo Gavazzi Egypt (CGE)
Project : MIDOR REFINERY EXPANSION

Job title	:	Electrical Commissioning Team Leader
Job Description	:	• Manage Tie-in scope for MV/LV switchboard extension ensuring the work scope is executed safely using LOTO (Lock-out Tag-out) and PTW procedure. • Pre-commissioning and commissioning for MV/LV equipment are detailed below: - Testing of MCC includes function checks for drawers and protection relay testing. - Testing of motors (IR test, Solo run test, load run test). - Testing of trace heating (IR test, RTD check, Function check for ETH panels). - Testing of MV 33KV switchgear (Type: Schneider F400) and 6.6KV (Type: Schneider MCset). - Testing of Cathodic protection (Impressed current system & Sacrificial anodes).
Dates	:	From May 2018 till Jun. 2021
Employer	:	Carlo Gavazzi Egypt (CGE)
Project	:	BP West Nile Delta (WND) Gas Development Project
Job title	:	Electrical Commissioning Engineer
Job Description	:	• Responsible for supervising and executing Pre-commissioning, Commissioning, Start-up, Operation & Maintenance with HSE regulations for all electrical equipment at same project. • One of BP Operations System Handover team accepting different electrical systems from construction. • As Isolation Authority (ISA) approved by BP site Electrical lead for LV equipment such as Motors, EDG's, Transformers and Bus Bars as per BP Standard. • Reviewing project technical document before the commissioning stage. • Reviewing the FAT of LV switchgears. • Training on BP safety program that include several safety courses. • Take over all necessary incident preventive actions during normal operation (Job Safety Analysis, control measure). • Maintain the site HSE requirements (Raise PTW, Risk Assessments (HITRA), isolation confirmation certificate ICC, Design the Isolation / De-Isolation IDP Plan, Switching Plans and LOTO system). • Expert in systems documentation review. • Maintenance and operation for switch Gears (MV 6.6KV/3.3KV PIX Switchboards, LV 690V/400V OKKEN Switchboards), GUTOR UPS and PMS Schneider. • Responsible for the different site testing requirements (loop check, CB test, protection Relay's calibration and configuration, Primary Injection, High Impedance (Stability & Sensitivity), Bus bar stability & Sensitivity, High Pot Test. • Authorized by BP Representative as Isolation Authority LV2 (LV Electrical Isolations) and Performing Authority PA. • Perform Thermography task for electrical equipment such as Motors, Transformers, Switchboards, UPS, and Heaters and etc. • One of BP system handover team who accept the different systems and create punch lists.

Dates : From Mar. 2013 till Apr. 2018
Employer : Qalaa Holdings, TAQA Arabia (Global Energy)
Project : Egyptian Styrenics Production Co., E-Styrenics Project
Job title : Electrical Maintenance Manager
Job Description :

- Responsible for maintenance power station include gas Engine MW M2032 V16 & 12 (2x4.3MW & 1x3.3MW) Connect to national grid, genset control system (TEM-EVO System), PLC Siemens S300.
- Manage electrical maintenance department to carry out preventive & corrective and breakdown maintenance for the electrical equipment by SAP program.
- MV switch gear (Schneider MC SET vacuum CB 11KV), LV auxiliary panel (air CB 2000A).
- Configuration protection device (Sepam 20, 40, 80), engine protection device (semap ECG), grid protection device (Knae) and synchronizing device (KSY).
- Engine instrumentation (pressure, temperature, level, speed, knocking and level switch).
- Engine auxiliary (HT, LT water pump, radiator fan, lube oil pump, air compressor, frequency converter ABB, gas unit, firefighting system, 24 & 110VDC with battery charger).
- Following up the safety instruction & rules during carrying out the jobs.
- ATS philosophy test.

Dates : From Apr. 2010 till Jan. 2013
Employer : Kharafi National
Project : Port Galib Power Station, Marsa Alam
Job title : Senior Electrical Maintenance Engineer
Job Description :

- Responsible for maintenance power station include Diesel Engine (4x3.4MW "MAN") using DCS genset Control System (11KV ABB Switch gear).
- (2x8MW "Wartsila") using PLC control system (Schneider) (11KV Schneider Switch gear).
- Calibration of Field Instrument (Pressure Transmitter, Pressure Switch & Level Transmitter, Level Switch & Temperature Switch, ...etc.
- Adjustment of protection Relays (Multifunction Relays REF, REM).
- Adjustment of protection Relays (Multifunction Relays vamp).
- Loop Check for DCS and PLC.
- LV Switch Boards & Motor Control and Auxiliary Units Panel.
- Control System, Air System, Lube Oil & Heavy Oil Separators.
- Fire Detection System (Smoke Sensor, Heat Sensor, Deluge Valves).
- Power transformers (11/0.4KV).

Dates : From Mar. 2004 till Mar. 2010
Employer : Egyptian Electric Holding Company (EEHC)
Project : Abu Qir Thermal Power Plant (4x150MW + 1x350MW + 2x650MW)
Job title : Maintenance Engineer of HV equipment
Job Description :

- Medium voltage (66KV, 11KV), motors control center (6kv, 380v) switchgear.
- Control and troubleshooting of different types of (indoor, GIS and

outdoor) switchyard.

- Installation and commissioning of generators, transmission lines, transformers, medium voltage switchgear and low voltage motor control center such as (ABB, SIEMENS).
- Maintenance of auxiliaries of the motors and pumps (6KV, 380v).
- Responsible of carrying out annual and periodical tests.
- Performing performance reports and spare parts plan.
- Fault analyzer and issuing reports and causes.
- Carrying out periodical maintenance and troubleshooting of Generators, Transformers, Transmission lines, CBS, CTS, VTS, panels, bus bars.
- Performing global maintenance work activities for all equipment's mentioned above during total plant shutdown.
- Overhaul of generator (rotor & stator) and change excitation system to static excitation Generator (AVR) 4 units 150MW, with Alstom Power Service Company.
- Commissioning and start-up for electro chlorination units with "SEVERN TRENT DENORA Co." (4 units "3300A, 450V").