

Ali Abdelrahman Ali Elshiekh

Electrical & Power Plant Engineer

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Career Summary :

A competent Electrical Engineer with Progressive +10 work experience in operational and maintenance activities , Testing calibration & Commissioning ,upgrading, modification & regular maintenance of all electrical power plant system and Equipment. Hand experience in installation electrical PP, UPS system, Transformers & Switch gear.

Employment Experiences:

1\ 2BOPCO (Power Section) :

Job description: Senior: Power Plant O&M (2018 up to date):

Duties & Responsibilities: -

- Maintains and repairs Uninterruptable Power Supply (UPS) system and battery systems.
- Schedule the PM &CM . Caterpillar generator service hour meter for units & equipment.
- Testing, Commissioning ,Operation and Maintenance of 6x1.6 MW Caterpillar 3516B, 50Hz, 1500RPM, 400V Synchronous Generators with Brushless excitation and Digital Automatic Voltage Regulator(AVR).
- Schedule the PM & CM Caterpillar generator service hour meter for units & equipment.
- Installation, Testing, Commissioning, Operation and Maintenance of electrical equipments like Transformers, Generator, LV/MV Switchgear Breakers, Ranhil panel, Protection Relays, Batteries, Motors, Control and Protections etc.
- Work with a diverse range of equipment including DC/DC and DC/AC solid state converters.
- Monitor meters, by SCADA gauges and control boards to verify operational parameters, and make adjustments to distribution, generator output, voltage and electricity flow rates according to standard protocols and power grid requirements.
- Installation, Testing, Commissioning, Operation and Maintenance of Diesel Gensets with 5x2000KVA Caterpillar 3516H, 50Hz, 1500RPM, Synchronous Generators (DAVR).

- Troubleshooting and Maintenance with 500/1000/2000/10000/22000 hours of overhaul of Caterpillar Caterpillar.
- Prepare Electrical operation procedures for equipment during normal and critical operation (blackout & Feeder tripped).
- Managing ,Supervising and Following MS project team, the day-to-day operation and execution of preventive and corrective maintenance activities related to electrical plant and equipment, inverters, rectifiers and their batteries, generators, air conditioning and control units.
- Operation and maintenance supervision to coordinate work activities, endorsing work orders and work permits, and supervising the actual execution of work on sites.
- Escalations problem management,. Managing Routine safety checks for the electricity, electrical cables, and batteries.
- Investigates and troubleshoots maintenance problems and implements the Company's work permit procedures.
- Managing the contracts with vendors and third parties, and managing the work/processes between them and Managed Services team.

2\ Greater Nile Petroleum Operating Company (GNPOC)(Sudan):

Job description: Senior; Power Plant Operator. (2007-2017)

Duties & Responsibilities: -

- Operation and Maintenance of 6 x 1.6 MW Caterpillar 3516B, 50Hz, 1500RPM, 400V Synchronous Generators with Brushless excitation and Digital Automatic Voltage Regulator(AVR).
- Schedule the PM & CM . Caterpillar generator service hour meter for units & equipment.
Operation and Maintenance of electrical equipments like Transformers, Generator, LV/MV Switchgear Breakers, Ranhil panel, Protection Relays, UPS system, Motors, Control and Protections etc.

- Monitor meters, by SCADA gauges and control boards to verify operational parameters, and make adjustments to distribution, generator output, voltage and electricity flow rates according to standard protocols and power grid requirements.
- Operation and Maintenance of Diesel Gensets with 10x2000KVA Caterpillar 3516H, 50Hz, 1500RPM, Synchronous Generators (DAVR).
- Operation & Maintenance of Wartsila Power Plant (18V32 LN) and Power System. Activities related to operations & Electrical as we'll. Maintenance of Power instrumentation, Auxiliaries&Power Grid. Synchronization system of generators and generators with grid, etc.
- Control a variety of power-generation equipment and machinery during normal operation, scheduled maintenance and emergency repair procedures.
- Operates various components on the medium voltage distribution electrical system including isolation switches, interrupters, capacitor banks, transformers, voltage regulators; isolates and clears sections of the system for maintenance and installation.
- Responsibility included Operation & Maintenance of Wartsila Power Plant and Power System. Activities related to operations & Electrical.
- Controlled and maintained auxiliary equipment, such as pumps, fans, compressors, condensers, feed water heaters, filters, or chlorination, to supply water, fuel, lubricants, air, or auxiliary power.
- Control a variety of power-generation equipment and machinery during normal operation, scheduled maintenance and emergency repair procedures.
- Maintenance MIS, Log the Records of normal operations of plant as per ISO conditions.
- Follow all relevant safety protocols and legal codes to ensure proper operation of equipment and minimize risk of damage to property and personnel.

Courses:

- Low voltage switchgears (Exemplar center) .
- Electrical power Equipment testing by (Exemplar center) .
- Modern Power System Protective Relaying (MPSPR) (Exemplar center) .
- Power generation operation & control course by Top Center for training, consultancy & quality service.
- Electro – Mechanical course from National Electricity Corporation (NEC) .
- CCNA 200-301 training course.
- English course by Cambridge.

Education:

- 2012 B.Sc. in Electrical Engineering from Jordanian Sudanese College for Science & Technology.
- 2004 (3 Years Diploma) of Electrical Engineering from Sudan University of Science & Technology.

* furnished upon request

* Last update January 2021.