

# **HASSAN KOMI KUKU**

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## **PROFESSIONAL SUMMARY:**

- An accomplished professional with extensive expertise in a broad suite of operations of Diesel Power Plant, particularly in Oil and Gas Fields, with awareness of multiple industry domains. proficient at Electrical wirings, Electrical Scheme of control circuits , full time management with a good reputation of a team player towards peak performance; seeking a challenging position to drive realization of engineering concepts applying in the real life, hoping to reach limits of my specialty , while maintaining a firm focus on assured bottom line gains and distinguished company performance.

## **KEY SKILLS:**

- Self-motivated and able to work both individually and as part of ability to achieve business' targets.
- Strong technical problem-solving skills
- excellent listening skills
- multi-tasking and organizational skills.
- Basic user in :

-Autocad

-Matlab

-Excel

-C++

-C

-Assemble Language

-PLC programming

## **PROFESSIONAL EXPERIENCE**

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**Canar Power Plant ,GNPOC, Canar Oil Field ,Sudan**

**2009 - 2015**

### **Electrical Power Plant Operator**

#### **Highlights:**

- A Diesel Power Plant utilized Perkins engine consists of six units, used to generate 2.4 MW( each unit rated 400KW)

#### **Key Responsibilities:**

- Monitors and inspects power plant equipments(generators, transformers, switchgear, etc) and indicators to detect evidence of operating problems switchgear, generator breakers, utility transformers, Battery Charger, Battery Room.
- Performs periodic inspections to ensure that all equipment and controls are operating properly and efficiently
- develops proficiency in operation, materials, methods and equipment in maintaining power generation.
- performs rounds and readings to insure the safe operation of all power plant equipment.
- locks and tags out equipment as required by the safe work permit system to ensure a safe work environment for individual involved in maintenance.
- maintains shift-operating logs to ensure consistent operation of plant equipment and systems , and report all deficiencies.
- operates transmission line disconnects or ground switches as required for clearing circuits on high voltage gear.
- operates required switching to isolate or remove equipment from service and test operations for restoration.
- Performs after outage inspections on generators after major outages and overhauls.
- Safely offload Diesel Fuel in Fuel storage in the plant and transferred to daily storages of generators, and handle wasted Lubricating oil.
- operates and monitor 3.3KV electrical transmission system.
- operates required switching to isolate or remove equipment from service and test operations for restoration.
- conducts & performs plant equipments and systems start-ups and shutdowns.

**Diffra Power Plant, Diffra Oil Field, GNPOC, Sudan**

**2005 – 2009**

Control Room Operator

**Highlights:**

operate Power Plant as a Control Room Operator in addition to completing all shift reports required as well as carries out minor preventive maintenance to Caterpillar 3516 engine, in a 20 Megawatt combined-cycle, natural gas-diesel power plant utilizing ten Caterpillar 3516 engines, each unit rated 2 MW.

**Key Responsibilities:**

- operates, maintains, and inspects a power plant, comprised of all electrical switchgear components such as remote control switches, power transfer controls, circuit breakers, and voltage rheostats.
- adjusts controls to generate specified electrical power or to regulate the flow of power between generating stations and substations.
- taking daily readings of all equipment and plant output and preparing a daily report
- Perform daily inspection, gages reading, fuel transfer, monitoring in Control Room DCS and SCADA system the performance of the plant.
- locks and tags out equipment as required by the safe work permit system to ensure a safe work environment for individual involved in maintenance.
- maintains shift-operating logs, performs rounds, and report all deficiencies.
- Performed preventative maintenance on plant engines.
- performs routine maintenance - grease, topping up Lubricating oils, Coolant, and Diesel Fuel(Caterpillar engine) .
- inspects Power Transformers and performed routine check & monitoring the Gauges.
- conducts & performs plant equipments and systems start-ups and shutdowns.

**Heglig Power Plant, Heglig Oil Field, GNPOC, Sudan**

**2004- 2005**

**Power Plant Operator****Highlight:**

Crude Oil Power Plant utilize 8 Rolls Royce engine ,with total power capacity 25.6 MW (each rated 3.2 MW),with 11 kv Power Evacuation Substation.

**Key Responsibilities:**

- control, operate, or maintain machinery to generate electric power. Includes auxiliary equipments.
- documents and analyzes calculations from ammeters, voltmeters, frequency meters, and temperature and pressure indicator devices
- maintains accurate accountability for auxiliary equipment including air compressors, cooling water pumps, pre-lube pumps, fuel oil pumps, and centrifuges

- locks and tags out equipment as required by the safe work permit system to ensure a safe work environment for individual involved in maintenance.
- maintains shift-operating logs, performs rounds, and report all deficiencies.
- proficiently perform Emergency generator startup and shutdowns on a weekly basis
- responsible for monitoring the performance of heating, cooling, and related systems by interpreting alarms, temperature and pressure differentials; troubleshoot problems and make required adjustments.
- control and maintain auxiliary equipment, such as pumps, fans and, compressors, Crude oil heater.
- synchronize incoming generating units with units in operation and closed circuit breakers at exact instant coincidence.
- take routine readings on plant equipment, report adverse findings to Supervisor, and write work requests as needed.

**Jaily-Shandi-Atbra Transmission Line Project, Atbra, Sudan**

**2003 - 2004**

**Site Electrical Engineer**

**Highlights:**

- An Overhead transmission line Project, 220 kilo volt, long Transmission Line( >80 km), with a Power evacuation Substation, Transmission substation, and Distribution Substation.

**Key Responsibilities:**

- Supervised up to 20 technicians
- Tracked and Participated in erection of High voltage Towers.
- Managed two groups of technicians and made sure their day to day activities were organized
- Made sure the erection work conducted correctly as drawings.

**EDUCATION**

- **1998-2002, Sudan University of Sciences & Technology**

Graduated of Diploma in Electrical Engineering(EE)

Major academic course highlights: Principles on DC and AC Electrical Circuits, Transformers, DC and AC Machines, Electrical Power systems, and Electrical Installation.

### **Key Trainings to Credit:**

- Diesel Power Plant operation & maintenance training course-Oil and Natural Gas Corporation Limited New Delhi ,India
- Introduction to PLC & SCADA-Sudanese Tractor Co. ,training centre Khartoum
- Transformers, Operation & maintenance, training centre GNPOC
- Earthing System &Lightening Protection training course- Enppi Engineering for the Petroleum and Process Industries Cairo ,Egypt .
- Safety courses related to Oil and Gas Field ,including Fire fighting, Hot and Cold work permits issue, confined space, Electrical Isolating, ect.- Training centre GNPOC
- First Aids course, Medicine Faculty UOK, Khartoum
- Switchgear and Substation operation On-job training course-Diffra Field
- Protective Relays course-Bayan Center Khartoum,Sudan
- 3516 Power Module operation &maintenance-Sutrac Demonstration & learning Center Khartoum,Sudan
- Power Generation Operation & control course-Top center for training, Khartoum,Sudan
- Defensive Driving course –GNPOC training center, Khartoum ,Sudan
- Basic Cardio Pulmonary Resuscitation-University of Khartoum-faculty of Medicine ,Educational Development centre for Medical & Health
- First Aid- University of Khartoum-faculty of Medicine ,Educational Development centre for Medical & Health

### **PERSONAL INFORMATION**

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|------------------------------|---------------------------------|
| • Birth Date: 06 August 1977 | •Marital Status: Married        |
| • Gender: Male               | • Nationality: Sudanese         |
| •Number of Dependents: 2     | • Languages: Arabic and English |