

## Curriculum Vitae

**TARIG HASSAN**

**Mechanical/Field Operation & Commissioning Engineer**

B. Sc. Mechanical (SUS T)

### **PERSONAL OBJECTIVE :**

I am seeking new challenging job. This is parallel to my professional experience and abilities. Be one of the key of the company's vision into realization through strong dedication, hard work and good leadership skills to enable the organization to deliver strategic new initiatives on time, within budget and scope. Make my learning curve to move in linear fashion along with growth of my functional skills coupled with overall personality development in order to face the challenging time ahead.

### **PERSONAL INFORMATION:**

**Full name:** TARIG HASSAN OSMAN ALI  
**Date/ Place of Birth:** 1<sup>st</sup> January 1965/ Omdurman Sudan  
**Marital status:** Married  
**Nationality:** Sudanese  
**Gender:** Male

### **CONTACT INFORMATION:**

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**Skype Address:** [tarigteno](https://www.skype.com/user/tarigteno)  
**Work Address:** 99 El-Jamma Street ó Sudanese thermal power generating co. Ltd- B.O 1380 - Khartoum - Sudan  
Operation Department - Khartoum North Power Station (KNPS).  
**Home Address:** Khartoum North Power Station (KNPS) Complex,  
Block 4, Kafori, Khartoum North, Khartoum, Sudan.

### **ACADEMIC BACKGROUND:**

- ❖ B.Sc. (Honours) Third Class, in Mechanical Engineering- College of Engineering & Scientific Studies- Sudan University Of science & Technology October 1993.

### **LANGUAGE PROFICIENCY:**

Native Language: Arabic  
Other Language: English

### **CURRENT JOB:**

#### **Assistant Director of Operation Department:**

Assist in the supervision and follow-up operations in all that concerns the operating section in terms of management and work to contribute effectively to the development and improvement plans for the operating department

## **WORK EXPERIENCE:**

### **• Operation & Plant engineer In KNPS (From March 1999 To Feb.2004)**

During this period I am responsible for:

- Boilers & turbines operation activities, check - up for normal , efficient and safe performance ,control the units loads according to the demand
- All station running circuits operation and observation:(water treatment plant, steam plant , oil and fuel systems)
- Unitø data logging for analysis, faults and defects tracking for repairing action by coordination with the maintenance staff.
- Prepare the units daily operation report.
- Station Auxiliary plant routine check and operation activities (fluids movers, rotatingParts and heat exchangers).
- Operation of all electrical (high, medium and low voltage equipmentø) and instrumentation& control panels and equipmentø.
- KNPS fuel management ( storage Tanks scheduling and monitoring, unloading ,heatingand Forwardingplants)

### **• Shift Charger Engineer (SCE) In KNPS ( From March 2004 To October 2008)**

My responsibilities Associated with:

- Safety & Efficient Operation of the Units by recording & reporting Data regularly.
- Responsible for power generation according to Load Dispatch Center demand.
- Responsible for the Management of Permit For Work system and safety of people in the plant.
- To obtain& facilitate shift requirements by coordination with operation manager.
- Carry out and supervise the responsibility of training the labor in the shift.
- Follow up the documentation of the Units data logging (Log Book. Round Book, information system programí ).
- Prepare & Discuss the Incident & Accident report by using tree causes & Fishbone method

### **• Assistant Director of Operation Department In KNPS (From October 2008 up to Now)**

**Tasks and duties:**

- The contribution in the preparation of plans and programs for the operatingdepartment.
- Assist in the supervision and follow-up operations for each operating division that concerns in terms of management and labor on shareholder actors in the development and improvement plansfortheoperatingdepartment.
- Participateindeterminationspecialneedsintheoperatingdepartment.

- The assistance in organizing and directing special operations Operating Department.
- Deputy director in carrying out the functions of the operating department in his absence
- Follow-up training programmed for drivers Department.
- Supervise the coordination and balance the workforce in the units of operation.
- Involved in making sure the application of the approved operating procedures.
- The contribution to make sure the operational status of units generating units and help ensure operational efficiency
- Contribute to the coordination between the operating section and other sections Operations
- Participate in the discussion of the units trip and safety incidents or any similar activities reports.
- Contributes to the verification of breakdowns and analysis of generation units and ancillary units emergency incidents.
- Responsible for follow-up tests special teams units generating actions during and after its annual maintenance and performance.
- Participate in the preparation of the budget Operating Department.
- Perform any tasks assigned by the station manager or operation manager.

#### COMPUTER SKILLS:

- ✚ Microsoft Office (Excel,Word,PowerPoint ,Access),MS project
- ✚ PRIMMAVERA P6
- ✚ AutoCAD Software 2D and 3D
- ✚ Solid Works 2012
- ✚ AUTOCAD MEP
- ✚ HVAC design software (ELLITE FOR LOAD CALCULATION)

#### TRAINING & COURSES:

##### TRAINING

- **2003 E.D.F (ELECTRICITY DE FRANCE )OPERATION AND EFFICIENCY AT POWER STATION** for 1 year
- **From 19 Nov To 07 Dec 2005**NEC by co-ordination with **EYGPT** (Ministry of power) in operation and maintenance of steam power plant for 3 weeks.
- **May5,2008 to July8,2008**NEC by co-ordination with **CHINA** in oil fired power plant( include theory training of steam turbine,boiler,electric,I&C and chemical part,simulator training including startup shutdown ,etc. of boiler and steam turbine) and practicing training at power plant from .

- **.From 4 OCT. TO 10OCT.2009** NEC by co-ordination with **metso in Finland(Tampere)**, Trainings of metso DNA DCS System For KHARTOUM NORTH POWER STATION Rehabilitation Project .
- **From 12 Oct To 15 Nov 2009**NEC by co-ordination with **DIMCO(Daedong Industrial Machinery Co.Ltd) Seoul(South Korea)** Trainings of I&C and operation For KHARTOUM NORTH POWER STATION Rehabilitation Project .
- **(JULY 2011)** Quality, Environmental and Health & Safety Awareness & Documentation Of Integrated Management System .
- **From16March To 20March 2014** Training OfTrainer InSafety&Environment.

## **COURSES:**

### **1. HVAC & AIR CONDITIONING at ABDELBARY CENTRE**

- Basic Refrigeration Cycle
- Refrigeration Cycle Component
- Cooling Load Calculation (Elite Software)
- System and Equipment Selection

### **2. PRIMAVERA PROJECT MANAGEMENT P6 AT ABDELBARY CENTRE**

- Preface, Understanding (PM) &Setting Up The EPS
- Add New Project, Create WBS,Create Calendars & Add New Activities, Relationship, Duration
- Schedule, Defining Resources, Adding Resources Assignment
- Updating & Management The Schedule, Target project and The Reports Preparations
- Layout, Filter, Printing
- Leveling Resources, Critical Path Method (CPM) and Earned Value, Budget Cost and Budget Quantity +S-Curve

### **3. AUTO CAD MEP AT ABDELBARY CENTRE**

- Mechanical System
- HVAC
- Fire Fighting System
- Electrical System
- Lightening
- Power System
- Fire Alarm System

**4/ integrated fire alarm & firefighting system at exemplar training center.**

## **MEMBERSHIP:**

Member of Sudanese Engineering Council

Sudanese Engineering society

## **PROFESSIONAL SKILLS:**

I have better persuasive, communication skills.

I can write reports and deliver oral presentations on it.

### **HOBBIES:**

Reading & research

Sports: Running, Watching TV.

### **INTERNATIONAL STANDER CODES KNOWLEDGE:**

- ASTM
- ASME
- NFPA

### **EXPERIENCE PROFILE:**

**Sudanese Thermal Power Generation Company Ltd - National Electricity Corporation NEC (previously)**

#### **Operation Engineer:**

- ❖ Operation of Steam Turbine cycle, Steam Boilers, Gas Turbine, combined cycle, Diesel Generators, water demineralization plants, water pre-treatment plant, cooling towers, close cycle cooling water and the power stations auxiliaries systems.
- ❖ Responsible for plant equipment's Isolation & Testing during annual and major overhaul maintenance and during units force outage.

**Project 1:** Rehabilitation and Automation of Khartoum North Thermal power station phase 2 (2x60) MW (2010)

**Contractor:** Dimco; KPS; LS industrial system ó Korea

**Consultant:** Lahamyer- Germany

#### **Responsibilities:**

- ❖ Pre-commissioning of systems component auxiliaries Sequence test, Coordinates with electrical regarding the desired sequence of Plant operation.
- ❖ Ensure that electrical and instrumentation and controls are working as to the desired parameters required by proper plant operation. Pump, Fan/Heat Run Test
- ❖ Test the individual motors and pump to pass the Acceptable requirement like, proper rotation, vibration, noise level and speed, Discharge output and others. Takes hourly reading of discharge pressure; Body temperature fan flow rate
- ❖ Pre-commissioning of various system Placing various systems in service- this includes pre-commissioning of Bearing cooling water system, feed water, vacuum, make-up water flue gas, Air flow and others
- ❖ Pre-commissioning/Startup of boiler proper This pertains to hydrostatic testing, acid cleaning, chemical dosing, pressuring, and steam blowing.
- ❖ Commissioning and Reliability Run The boiler have to be started up and all controls to be tested for run-back and Normal operation. In so doing all mechanical dates have to be evaluated and recorded to meet the plant design standard and parameters. Once under normal operation the plant will be subjected to a month of reliability

run.

**The commissioning includes:**

- ✓ Medium voltage & Low Voltage Switchgear testing of all Breaker Open, close and automatically charged, Draw In & Out,
- ✓ Protection Relay Testing
- ✓ Quick Transfer Switch testing from C to AB, From B to AC, From A to BC
- ✓ UPS testing Includes Main & bypass inverter
- ✓ Touch Screen Of Excitation System test
- ✓ Motor Rotation test
- ✓ FDFan AC Inverter test up to full speed and check
- ✓ Commissioning of condenser tube cleaning system from Local PLC
- ✓ Auto Change Over of auxiliary equipments from DCS
- ✓ Dismantle and reassemble of Oil burner after cleaning
- ✓ Turbine Electrical & Mechanical Over Speed Test
- ✓ RUN Back Test & Load rejection Test

**Project 2:** Khartoum North Thermal Power Station Extension phase3 (2x100) MW (2010-2011)

**Contractor:** China National Machinery & Equipment Corporation (CMEC)

**Consultant:** Mott MacDonald ó England

**Responsibilities:**

- ❖ Coordination and supervision of the safety and efficient process of Commissioning on all pipings, pumps, motors, generators and other equipment within the power station.
- ❖ Maintaining the oil level of all the equipment which is under commissioned and Keeping an eye from time to time when equipment is started till stopped and monitoring the abnormalities like vibration and temperature rise beyond tolerable limit.
- ❖ Ensure that the bearing cooling water has continuous flow by ensuring that all the valvings are normally set. . .
- ❖ Attends to hydro testing of various line by setting the valves to a prescribed limit of opening and conducting inspection on various lines while the test is on going to ensure a safe and efficient commissioning.
- ❖ Attends to steam blowing of various lines prior to introduction of steam to steam turbine to ensure the capability of the turbine. Work is done by inserting a test plates to the line where the maximum pressure passes through and steams purity checks. . .
- ❖ Attends to trip tests of all equipment in the power station from Hp LP by pass testing to ensure warranty performs over speed trip test of steam turbine.

- ❖ Attend to safety testing to ensure that the valves are properly working specially when circumstances warrants.
- ❖ Attends to frequent repetitions of start-up and shut down of all units as per commissioning requirements to ensure reliability of the units.
- ❖ Attend and inspect all equipment during test run for possible defects.
- ❖ Review the O&M manual with the contractor in China for Boiler and auxiliary

### **Resident Sit Engineer**

#### **Responsibilities:**

- ❖ Execution of Contracts Packages including Design Review and Site Supervisions.
- ❖ Responsible for Supervising & monitoring installation, erection and commissioning of plant ( base oil unloading area - base oil storage tanks - base oil forwarding system, oil blending tanks, Additives adding system, blending control system PLC, oil filling machines, drums manufacturing plant, plastic cans manufacturing plant, compressor station, thermal oil heaters and cooling towers).
- ❖ Review and approve the SAT testing Procedures for plant equipment, tanks, piping and pump.
- ❖ Review and Test the instrument and control systems and operation logic of PLC.

#### **CAREER OBJECTIVE:**

To achieve an opportunity in such a reputed organization where I can enhance and utilize my challenging and hardworking capabilities in the engineering field to full extent and that can provide me a gate for learning and career development.

#### **REFERENCE:**

##### **E. Ahmed Ali Elmahi**

Station Manager - Khartoum North power station

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##### **E. GaafarKhierAllaAbdElhadi**

Project Manager -Nuclear Power plant Project

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##### **E. Yasser Mustafa Mohammed**

Mechanical Engineer ó ElShgag Power plant project -Saudi Electricity Company (SEC)

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