107141-ELE-1CMPST-E-2006

Electrical Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 16 years experience working in maintenance, protection and testing at Nubaria Power Station.

PERSONAL DATA

Nationality : Egyptian Birth Date : 05/01/1984

Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

B. Sc. in Electrical Power & Machines Engineering, Menoufia University, 2006

Postgraduate: Making boast graduate studies about the modification for the improvement of the gas turbine (V94.3A) to raise the active power and making studies about the generator behavior after this modification.

LANGUAGES

Arabic : Native Language

English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

: Dialux, Ecodial and Elec. AutoCAD

TRAINING COURSES AND CERTIFICATIONS

: Training on operating Gas Turbine unit in Nubaria Combined Cycle Power Plant.

 Training on Gas insulated System Switch yard in Nubaria Combined Cycle Power Plant.

: Training on Maintenance Gas Turbine unit in Nubaria Combined Cycle Power Plant.

Generator.

Generator auxiliary system.

: Maintenance & operation generator and auxiliary system.

Excitation system maintenance and trouble shooting.

: Static frequency converter System maintenance and trouble shooting.

: English: TOEFL certificate.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Oct. 2012 till now

Employer : Middle Delta Electricity Production Company (MDEPC)
 Project : Nubaria Power Station (3x750MW Combined Cycle)

Job Description : • During Maintenance Periods:

 Review and receive the required spare parts which developed by different contractors.

- Preparing maintenance programs for generators and aux. systems, main and aux. transformers, MV & LV switchgear, and all other aux. Systems.
- Following up the maintenance programs, periodic inspection for electrical equipment, analyzes, and troubleshoots all faults and errors.
- Following up the overhauls of both of gas turbine generators and their auxiliary systems and carrying out the required maintenance, inspection and testing.
- Following up the overhauls of steam turbine generator and auxiliary systems and carrying out the required maintenance, inspection and testing.
- Performing the periodic tests of protection digital relays and electrical equipments.
- During Commissioning and Start-up Period (for Nubaria Power Station Module III 1x750MW):
 - Follow up Commissioning activities for all electrical equipments installed in the site such as Medium & low voltage cables, 500KV Air Insulated Switchyard, 6.3KV Medium Voltage Switchgear, low voltage load centers, motor control centers, batteries, battery chargers, DC & UPS system, large power transformers (main & auxiliary).
 - Follow up Commissioning for Gas and steam Turbine Generators and its accessories as following: protection system, motors, interconnection cables, lighting system, Excitation transformer, static excitation system, Static start isolation transformer & load commutated inverter (LCI).
 - Testing of generator protection relays such as G60 (GE MULTILIN) product and MICOM P343 (Areva product).
 - Testing of generator circuit breaker protection relays such as C60.
 - Testing of unit overall protection relay such as T60.
 - Testing of the 500KV air insulated switchyard circuit breakers, CTs, VTs, and disconnecting switches (Megger, contact resistance, timing, interlocking and control circuit).
 - Testing of the main & aux. power transformers (Megger, DC resistance, turns ratio).
 - Testing and commissioning of main & Aux. transformer protection relay such as T60 & T35 and MIF II (GE MULTILIN).
 - Testing for 6.3KV switchgear, Schneider protection relays SEPAM

- (S20, S40 and M41), 6.3 to 0.4KV dry type transformers, 400 V load centers, MCC, and emergency diesel generator.
- Testing and commissioning for the gas and steam turbine generators such as Megger, High potential, DC winding resistance.
- Testing and commissioning for the DC/UPS system.
- Overall commissioning of the plant (Interfacing between the different systems such as interlocking, status signals, alarms, trip signals, and CT & VT signals).
- Construction work:
 - I can do work as construction of fire alarm (conventional and addressable) and firefighting system.
 - Also doing normal and emergency lighting with Dialux and Ecodial program.
 - Erection, testing and operation of sound and paging system.
 - Making maintenance for some small (power) diesel.
 - Erection, testing and operation of cameras system.

Dates : From Jan. 2011 till Oct. 2012

Employer : Middle Delta Electricity Production Company (MDEPC)
 Project : Nubaria Power Station (3x750MW Combined Cycle)

Job title : Electrical Protection Engineer

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Job Description

- Doing all tests of protection relays (Distance relays, Transformers protection relays, Generator protection relays, Medium voltage protection relays).
- Testing many types of protection relays like SIEMENS, ABB, ALSTOM, AREVA, GE Multilin and BECKWITH ELECTRIC:
 - ABB relays (RED670 REF542PLUS REF615 REU610 REM543 RET543 REL316*4, REL531 REJ523 REU525).
 - SIEMENS relays (7UM62 SIPROTIC).
 - Micom family relays (P741 P742, P437 P442 P126 P632 -P141 and P143).
 - GE Multilin relays (UR family T35-T60-SR489-MIFII-MIV-DTP).
 - BECKWITH ELECTRIC relays (M-3425A, M-3310).

Dates : From Jan. 2008 till Dec. 2010

Employer : Middle Delta Electricity Production Company (MDEPC)
 Project : Nubaria Power Station (3x750MW Combined Cycle):

- Four Siemens gas turbines 250MW (modules I & II).
- Two Mitsubishi steam turbines 250MW (modules I & II).
- Two GE gas turbines 250MW Frame MS9001FA (module III).
- One Alstom steam turbine 250MW (module III).
- Four off load power transformer (ZTR) 500KV/16.5KV (modules I & II).
- Four on load power transformer (ZTR) 16.5KV/6.3KV (modules I & II).
- Two off load power transformer (ZTR) 500KV/15KV (modules I & II).
- Two off load power transformer (Hyundai) 500KV/15.75KV (module III).
- Two on load power transformer (Hyundai) 15.75KV/6.3KV (module III).
 One off load power transformer (Hyundai) 500KV/19KV (module III).
- 220KV Air Insulated Switchyard (modules I & II).

- Medium Voltage Switchgear of 6.3KV Low voltage switchgear 400 V.
- Batteries, DC systems and UPS systems.
- Water treatment station.

Job Description

Electrical Maintenance Department for Nubaria Power Station for the:

- Medium voltage.
- Corrective & preventive maintenance for the following:
 - Medium voltage 6.3KV switchgear with 4 incoming feeders.
 - 6.3/0.4KV dry transformers.
 - Motors control center MCC.
 - Local distribution panels.
 - Low voltage induction motor.
 - Medium voltage induction motors.
 - Emergency diesel generators.
 - Electrical cranes.
 - Elevators.
 - Air compressors.
 - Power transformer.
 - Measuring potential & current transformer.
 - Dc system (chargers & batteries).
 - UPS system.
 - Distribution Dc system.
 - Lighting & earthing system.
- Plant grounding.
- Electric loop wiring test.
- Insulation resistance test for all types of cables and bus ducts with high dc voltage.
- Testing for motors (rotation direction, earthling, winding, insulation resistance, ...etc.).
- Generator Gas Turbine & steam Turbine.
- Generator auxiliary system.
- Generator design & structure and visual check in inside generator.
- Maintenance for generator and trouble shooting.
- Maintenance for generator auxiliary system.
- Operation for generator and generator auxiliary system.
- Excitation system.
- Automatic voltage regulator (AVR).
- Excitation rectifier.
- Excitation transformer of steam turbine generator 15KV / 600 v.
- Excitation field circuit breaker.
- Auto & Manual excitation control.
- Excitation commissioning and start-up.
- Excitation system maintenance and trouble shooting.
- Thyristor control excitation.
- Static frequency converter (SFC).
- Machine control converter (MCC).
- Line control converter (LCC).

Dates : From Jan. 2007 till Jan. 2008

Job Description : Worked as a Construction Electrical Engineer in the environmental

measures and efficiency improvement project at Siemens, location at Shoubra El-Kheima Power Plant - Cairo (construction of all electrical and control panels, cable pulling, commissioning, and start up for the four units

steam power plant) (steam turbines).