

104398-ELE-15CMTyz-S-2001

Electrical Maintenance Technician

Holds an Technical Industrial School Degree (Electrical) and has over 19 years hands-on experience working in construction, maintenance and commissioning at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/01/1984
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: Technical Industrial School Degree (Electrical), 2001

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: On-shore training on the Power Plant Electrical Equipments Maintenance (Dec. 2013).
: On-shore training on Fire Fighting (Feb. 2014).
: Electrical Instrument Maintenance (Apr. 2014).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2010 till now
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Power Station 1x750MW Combined Cycle (CCGT)
Job title : Electrical Maintenance Technician
Job Description :

- Supervise and execute all power plant Electrical equipment maintenance.
- Implement the company EHS procedures within area of responsibility.
- Proposing solutions for all possible operational malfunction.

- Perform the routine maintenance programs (PM & PDM) Emergency maintenance & troubleshooting and tests for the following systems under Engineers Supervision:
 - Gas Turbine:
 - GE gas turbine frame 9FA Generator.
 - Static start system for gas turbine "LCI" model LS2100.
 - Static excitation system EX2100.
 - Medium & low voltage motors (Unit Auxiliaries).
 - DC & UPS Systems.
 - Auxiliary (Dry) Transformers for LCI & Excitation.
 - Motor Control Center (MCC) in the PEECC.
 - Power Transformer:
 - Main transformer (2x300) MVA, 15.75/500KV HYUNDAI, delta/star for gas turbine unit
 - Main transformer (1x340) MVA, 19/500KV HYUNDAI, delta/star for steam turbine.
 - Auxiliary transformers (2x32) MVA, 15.75/6.3/6.3KV.
 - Medium & Low Voltage Switchgear:
 - Medium voltage SWGR (6.3KV) Schneider.
 - 400 V Load Center Schneider Model.
 - 400 V Motor Control Center (MCC) Schneider Model.
 - Back up Diesel generator 2.000 KVA 1.600 KW (ELECTRA MOLINS, Model EMO-2000).
 - 500KV Switchyard:
 - 500KV Live tank circuit breakers GL317 (AREVA).
 - 500KV Disconnect Switch S2DAT & S2DA2T.
 - 550KV Current Transformers IOSK 550.
 - 550KV Voltage Transformers VEOS 525 & CVE550.
 - Earthing Switches.
 - Grounding System.
 - DC Battery Chargers and Batteries.
 - UPS System.
 - Generator protection system (GE Relays - G60 & C60).
 - Transformer protection system (GE Relays - T60 & T35).
 - Generator Circuit Breaker (ABB – HEC 100L Model).
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 - Steam Turbine:
 - ALSTOM Steam turbine Generator.
 - Static excitation system.
 - Medium & Low Voltage Motors.
 - Support Mechanical team during Inspections (CI & Major).
 - Make Cable Termination.
 - Cathodic protection for the under ground pipes.
 - Roads and buildings lighting systems.
 - Turbine Building Over head Electrical cranes (120/20ton).
 - Pump house overhead cranes (20/5Ton).
 - Iso phase bus duct from main transformers to Aux. transformer and generator.
 - Perform Electrical Tests under Engineers Supervision for the following:
 - 500KV Switchyard:
 - C.B contact Resistance test.

- C.B timing test.
- C.B function & Interlocks test.
- Voltage transformer insulation resistance.
- Voltage transformer turns ratio.
- Current transformer insulation resistance.
- Current transformer polarity test.
- Current transformer $\tan \delta$.
- Disconnecter switch alignment.
- Disconnecter switch function & interlocks test.
- Electrical connection cables insulation resistance.
- Electrical connection cables continuity.
- Primary current injection.
- Electrical Generator:
 - Stator windings Hipot test.
 - Stator winding insulation resistance & polarization index measurements.
 - Stator DC winding resistance measurement.
 - Rotor insulation resistance & polarization index measurement.
 - Rotor DC winding resistance measurement.
 - Rotor winding AC impedance measurement.
- Main Power Transformer:
 - Insulation Resistance & polarization index measurement.
 - DC winding Resistance measurements at each tap.
 - Windings Insulation power factor measurement ($\tan \delta$).
 - Bushing Insulation power factor measurement ($\tan \delta$).
 - Oil Insulation power factor measurement ($\tan \delta$).
 - Oil dielectric strength test.
 - Turns ratio at each tap.
- Generator Circuit Breaker:
 - C.B contact Resistance.
 - C.B timing test.
 - C.B function & Interlocks test.
 - Voltage transformer insulation resistance measurement.
 - Voltage transformer turns ratio check.
- Auxiliary power transformer 15.75/6.3/6.3KV:
 - Insulation Resistance & polarization index measurement.
 - DC winding Resistance measurements at each tap.
 - Windings Insulation power factor measurement ($\tan \delta$).
 - Bushing Insulation power factor measurement ($\tan \delta$).
 - Oil Insulation power factor measurement ($\tan \delta$).
 - Oil dielectric strength test.
 - Turns ratio at each tap.
 - AVR setting and on load Tap changer checks
- Medium Voltage switchgear 6.3KV (Schneider Electric):
 - Bus bar Insulation resistance measurements.
 - Bus bar Hipot test.
 - C.B DC contact Resistance measurement.

- Circuit Breaker Timing Test.
- Function & interlock testing.
- Protection relays (SEPAM S20, S40, M41) test.
- LV load center 400V:
 - Bus bar Insulation resistance measurements.
 - Bus bar Hipot test
 - LC transformer tests.
- Back up diesel Generator:
 - Stator Winding Insulation resistance measurements.
 - Stator Winding Hipot test.
 - Stator Dc winding Resistance measurement.

Dates : From Oct. 2008 till May 2010
Employer : Electro Tharwat
Project : Nubaria Power Station 2x750MW
Job title : Electrician
Job Description :

- Power & Control Cables Termination.
- Power & Cables Test.
- Continuity and checks.
- DC System installation and commissioning.
- Power transformers installation and testing.
- Iso phase bus duct installation.
- Generator circuit breakers installation and testing.

Dates : From 2003 till 2004
Employer : Bonatti S.p.a
Project : Mellitah Gas Compression Plant (Libya)
Job title : Industrial Electrician
Job Description :

- Power & Control Cables Termination.
- Power & Cables Test.
- Continuity and checks.

Dates : From Jan. 2002 till Dec. 2002
Employer : HONEYWELL
Project : Abu Sultan Power Plant Control Upgrade Project
Job title : Electrician
Job Description :

- Power & Control Cables Termination.
- Power & Cables Test.
- Continuity and checks.

Dates : From Jun. 1999 till Dec. 2000
Employer : Electro Tharwat
Project : Ayoun Mousa 2x320MW Power Station
Job title : Electrician
Job Description :

- Power & Control Cables Termination.
- Power & Cables Test.
- Continuity and checks.