

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 7 years hands-on experience working in maintenance, testing and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/05/1987
Gender : Male
Marital Status : Married
Residence : Sharkia

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Zagazig University, 2009

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D
: Dialux

TRAINING COURSES AND CERTIFICATIONS

: Protection Principles, Fayed Training Center (2 weeks).
: Generator Protection, Fayed Training Center (1 week).
: Feeders Protection, Fayed Training Center (1 week).
: Bus bar Protection, Fayed Training Center (1 week).
: Transformer Protection, Fayed Training Center (1 week).
: Substation control system (SCS) in Al-Shabab 220KV GIS substation, Siemens Company (2 weeks).
: Gas insulated switchgear (GIS) in Al-Shabab 220KV GIS substation, Siemens Company (2 weeks).
: Protection system in Al-Shabab 220KV GIS substation, Siemens Company (2 weeks).
: Dielectric Gas SF6 Testing and Recycling, Fayed Training Center (2 weeks).
: Maintenance, Service, replace and repair of all types of Hyundai Transformers, Hyundai (HHIB) (2 weeks).

- : MS 9001 GAS TURBINE OPERATION TRAINING, GE Energy (1 month).
- : At Schneider Electric (1 week):
 - Operation & Maintenance of M.V and L.V SWGRs.
 - Operation & Maintenance of DC system.
 - Operation & Maintenance of Dry Type Transformer.
- : English language (managers course), Fayed Training Center (2 weeks).
- : Transformers - Circuit Breakers - Switch boards - Instrument Transformers - Fuses - Insulators, ABB Arab Company (3 weeks).
- : Canal Electric Distribution Company (Transformer Substation 66KV) (2 weeks).
- : Maintenance works, Al Ahram Beverages Company (1 month).
- : Electrical Power Systems Distribution Basic Applications, Jelecom (2 weeks).
- : GE GAS TURBINE OPERATION, South Cairo Power Plant (2 weeks).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2015 till now
- Employer** : East Delta Electricity Production Company
- Project** : El-Shabab phase II Combined Cycle Project 1500MW, Ismailia
Plant consists of 8 GE Gas turbine units with 125MW for each unit, Two ANSALDO Steam turbine units with 250MW for each unit with Total Power 1500MW and 220KV GIS substation.
- Job title** : Electrical Project Engineer
- Job Description** :
- Responsible from the owner for all Project Electrical Equipments (MRR) Material Receiving Reports, (IR) Inspection Reports, following the punch list for the project.
 - Responsible from the owner for the Installation, Testing and commissioning the 220KV GIS substation extension including (High Voltage test, C.B function test, Interlocking, C.B timing test, Contact Resistance test, Current and Voltage Transformers test, protection relays testing with type SIPROTEC differential relay (7UT612), B.F protection relay (7VK610), Auto Reclosure (7VK611) and BUSBAR protection (7SS522, 7SS525)).
 - Witness for (FAT) Factory Acceptance Test of GIS in Siemens factory, BERLIN - GERMANY.
 - Following the Installation, Testing and commissioning of Main Transformers (TAMINI 320MVA, 15.75/220KV) and Auxiliary transformers (GETRA 26MVA, 15.75/6.6KV) and TIE-IN Transformers (HYUNDAI 125MVA, 220/66 KV).
 - Responsible from the owner for testing the protection relays of main transformer, Auxiliary and TIE-IN Transformers (such as Differential Relay, Neutral Over Current Relay, Time & Instantaneous Over Current Relay).
 - Witness for testing the transformers parameters (Tan Delta, SFRA, Turns Ratio TTR, Winding Resistance, Insulation Resistance, Oil Breaker down voltage), current transformers testing.
 - Following the Installation, Testing and commissioning of Generator Protection, Excitation and synchronizing panels.
 - Following the installation of ACC system fan motors (690 V),

Condensate pumps (6.6KV), Feed Water pumps (6.6KV), STG auxiliary system (such as AC/DC lube oil and seal oil pumps).

- Following the Installation, testing and commissioning of generator circuit breaker (ALSTOM) including circuit breaker (FKG), Disconnect switch (SKG) and Earthing switches (MKGG, MKGT).
- Following the Installation, testing and commissioning of (IPB) ISO Phase Bus system (Insulation Test, HI-POT Test).
- Following the Installation, testing and commissioning of Plant DC System like Chargers, Batteries, Inverters, Distribution System.
- Following the Installation, testing and commissioning of Schneider MV SWGR (6.6KV), Schneider LV SWGR (0.4 KV), ELTAS Dry transformers (1.25MVA, 6.6/0.4KV) and ABB ACC SWGR (0.69KV).
- Responsible from the owner for the Installation, testing and commissioning of project construction power (ABB 11KV SWGR).
- Following the Installation, testing and commissioning of 220KV cables, medium and low voltage cables including (Insulation Test, HI-POT Test).
- Witness for the installation of plant AC/DC lighting, ventilation and HVAC System.

Dates	:	From 2011 till 2015
Employer	:	East Delta Electricity Production Company
Project	:	EI-Shabab GE Gas Turbine Power Station (1000MW), Ismailia Plant consists of 8 GE gas turbine units with 125MW for each unit with total power 1000MW and 220KV GIS substation.
Job title	:	Electrical Maintenance Engineer
Job Description	:	<ul style="list-style-type: none">• Testing and commissioning the 220KV GIS substation with Siemens protection relays with type SIPROTEC (Numerical distance relay (7SA522, 7SA612), differential relay (7UT612), B.F protection relay (7VK610), Auto Reclosure (7VK611) and BUSBAR protection (7SS522, 7SS525)).• Experience of Maintenance of SIEMENS GIS substation (Local control cubicle, Bay Control Panels, Circuit Breaker control, Disconnect switch, Earthing switches, SF6 analysis, SF6 Filling, Evacuation, Removal and Storage).• Testing protection relays of main transformer and Auxiliary Transformers (such as Differential Relay (T60, T35), Neutral Over Current Relay (MIFIN), Time & Instantaneous Over Current Relay (MIFIP)).• Testing the transformers parameters (Tan Delta Test, Turns Ratio Test, Winding Resistance Test, Insulation Resistance Test, Oil Breaker down voltage).• Experience of Maintenance of main transformer (132/165MVA, ONAN/ONAF, 15/220KV) and Auxiliary transformer (8 MVA, ONAN, 15/6.6KV) especially HYUNDAI type.• Experience of testing of mechanical protection relays of Main and Auxiliary Transformers (Buchholz relay (63T), Pressure relief (63TP), "OLTC" Oil Swift Flowing Relay (80SST), H.V Winding Temperature (49T1), L.V Winding Temperature (49T2), Oil Temperature (26T)).• Experience in handling different types of Electrical Maintenance and troubleshooting activities related to Plant MV and LV Switchgears.• Versed with power plant Generation systems. O&M experience of Power Generating Machines like GE, SIEMENS.

- Broad Familiar with Plant Direct Current System (DC) like Chargers, Converters, Batteries, Distribution System.
- Familiar with Maintenance of MV / LV Motor and can supervise such jobs.
- Experience of Plant Un-Interruptible Power Supply System (UPS).
- Well Understanding of Protection Relay and coordination Studies.
- Able to handle Root Cause Analysis and trouble shooting of Electrical Equipments.
- Modification of control circuits as per the plant change requests and update all related plant drawings to reflect the actual changes.
- Ability to interpret electrical schematic, Control and various technical drawings.
- Witness for all electric field testing during the installation of plant project.

Dates : From 2010 till 2011

Employer : East Delta Electricity Production Company

Project : El-Shabab GE Gas Turbine Power Station (1000MW), Ismailia

Job title : Gas Turbine Operation Engineer

Job Description :

- Witness for all installations, commissioning, testing and first start of the (8 GE) gas turbines, MV & LV modules, 220KV GIS Substation, 220KV power cables and (16 HYUNDAI) Power Transformers.
- Monitor plant performance to ensure safe & smooth day to day operation.
- Detect and diagnose malfunction of equipments and prepare for work orders.
- Coordinate with other departments in long time services to ensure that the maintenance objects achieved.
- Perform necessary measures and check out before equipments start-up.
- Follow Operation Specifications.
- Analyze Equipment Efficiency.
- Analysis of all necessary Information about Local Sites.
- Operations of medium, low voltage switchgears and load centers.
- I deal with the operation of the gas units; sink with the National united network, raise and lower loads (MW).
- I can read the power and control wiring and follow the problem.
- Working as Shift Operation Engineer in 220KV GIS.
- Dealing with the dispatch as connecting and disconnecting the (220KV) circuits.
- Dealing with abnormal conditions and faults.
- Follow with wiring the fault and problems.