

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 7 years hands-on experience in construction, maintenance and commissioning of Nubaria Power Station.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 17/01/1981
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Mansoura University, 2004

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Electrical programs and maintenance tools

TRAINING COURSES AND CERTIFICATIONS

- : General background for electrical maintenance of gas turbine generator and accessories, power transformers, M.V. switchgear, MCC, DC and UPS system, Nubaria Power Station I & II, Feb./Mar. 2006.
- : STF maintenance training course for 400MW HRSG (off-shore training) in Magenta, Milan – Italy, Jun./Jul. 2009.
- : GE Maintenance Training Program for Combustion Turbine Generator & Auxiliaries (on-shore training at Nubaria site), Apr./May 2009:
 - Part 1: MS9001FA gas turbine maintenance & Generator maintenance.
 - Part 2: Mark VI turbine control system fundamentals and Toolbox software.
 - Part 3: Generator control and protection (EX2100 excitation system, LS2100 static starter system, GP2100 generator protection panel).
- : Erection, operation and maintenance of solar treatment plant training, INITEC Energia / CHEMTROL, Nubaria Power Station III site, Sep. 2009.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2007 till now
- Employer** : Middle Delta Electricity Production Company (MDEPC)
- Project** : Nubaria Combined Cycle Power Station III (1x750MW)
- Job title** : Electrical Site & Commissioning Engineer
- Job Description** :
- During Construction Period:
 - Preparation of MRR (Material Receiving Report) after site inspection for all electrical equipments (cables, cable trays, motors, transformers, generators and accessories, protection panels, distribution panels and all auxiliary systems related to the project).
 - Issuance of Change Notices according to the project conditions and study of contractor change request.
 - Issuance of punch list items for site work and follow up the contractor action.
 - Factory inspection and testing for many electrical equipments such as medium and low voltage cables, 500KV bare conductors, distribution transformers, medium and low voltage switchgear, motor control centers, protection panels, Isolated phase bus duct (IPB), AC and DC distribution panels.
 - Follow up construction activities for all electrical equipments installed in the site such as temporary construction power, grounding grid, 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 construction for two Gas Turbine Generators (GE-MS9001FA) and its accessories as following [motors, interconnection cables, lighting system, earthing system & Packaged Electrical/Electronic Control Compartment (PEECC) & Excitation transformer (6300/900V) & EX2100 static excitation system 100 MM SCR WARM BACKUP & Static start isolation transformer (6300/2080/2080V) & LS2100 load commutated inverter (LCI).
 - During Commissioning and Start-up Period:
 - Testing and commissioning of the 500KV air insulated switchyard circuit breakers, CTs, VTs and disconnecting switches (Megger, DC resistance, contact resistance, timing, insulation power factor $\tan\delta$ interlocking and control circuit).
 - Testing of the main & aux. power transformers (Megger, DC resistance, turns ratio, $\tan\delta$).
 - Testing and commissioning for 6.3KV switchgear, SEPAM protection relay, 6.3 to 0.4KV dry type transformers, 400 V load centers, MCC and emergency diesel generator.
 - Testing and commissioning for the gas turbine generator such as Megger High potential, winding resistance.
 - Testing and commissioning and start-up for the generator excitation system (EX2100), the gas turbine static starter system GE LCI (LS2100) and generator protection system (GP2100).
 - 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).

- Preparing and reviewing with all related contractors and dispatch center, the energization procedures for the plant starting with switchyard energization and then back energizing the main & aux. transformers to energize the M.V. switchgear and after that starting-up the unit and synchronization.
- Providing a fault analysis and Troubleshooting procedure for many problems appeared during the start-up period such as generator protection panel VT connection, transformer protection panel and unit overall differential relay CT polarity problem, unit overall differential relay setting problem (poor selectivity), and DC earth fault problem.
- After Turnover (Maintenance):
 - Preparing and review the spare parts list required for two years of operation for all equipments.
 - Preparing maintenance programs for generators and aux. systems, main and aux. transformers, MV & LV switchgear, 500KV air insulated switchyard and all other aux. systems.
 - Preparing maintenance programs for gas turbine component (peecc & motors & mcc & batteries & battery chargers & Ici transformer & Ici compartment & excitation compartment & excitation transformer & collector brush rigging & shaft voltage rigging & PDA monitoring & all electrical panels, etc.).
 - Follow up the maintenance programs, periodic inspection for electrical equipment, analyze and troubleshoot all faults and errors.
 - Monitor the status of material & spare parts to specify the required parts.

Dates : From Oct. 2005 till Oct. 2007

Employer : West Delta Electricity Production Company (WDEPC)

Project : Nubaria Combined Cycle Power Station I & II (2x750MW)

Job title : Electrical Site Engineer

Job Description :

- Follow up construction for four Gas Turbines Generator (Siemens) 250MW type V94.3A and its accessories as following (motors, interconnection cables, lighting system, earthing system, PCC, SFC and excitation system).
- Testing and commissioning of the 500KV air insulated switchyard circuit breakers, CTs, VTs and disconnecting switches (Megger, DC resistance, contact resistance, timing, insulation power factor $\tan\delta$ interlocking and control circuit).
- Testing of the main & aux. power transformers (Megger, DC resistance, turns ratio, $\tan\delta$).
- Testing and commissioning for 6.3KV switchgear, SEPAM protection relay, 6.3 to 0.4KV dry type transformers, 400V load centers, MCC and emergency diesel generator.
- Testing and commissioning for the gas turbine generator such as Megger High potential, winding resistance.

Dates : From May 2005 till Oct. 2005

Employer : North Delta Electricity Distribution Company (NDEDC)

Project : Sector of Kafr El-Sheikh, Motbas branch

Job title : Electrical Maintenance Engineer

- Job Description** :
- Preparing preventive and corrective maintenance for switchgear (11KV SF6 circuit breakers, medium voltage cables).
 - Install medium and low voltage network, local distribution panels and 11/4KV transformers.
 - Preparing preventive and corrective maintenance for medium and low voltage network and 11/4KV transformers.