101771-ELE-CMS-E-1999
Electrical Engineer

Holds a B. Sc. in Electrical Power Engineering and has over 13 years hands-on experience in construction, maintenance, commissioning and start-up.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	15/12/1972
Gender	:	Male
Marital Status	:	Married
Residence	:	Damanhour

EDUCATION

: B. Sc. in Electrical Power Engineering, Mansoura University, 1999

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

: Training Course in EMPAC Program for operation and maintenance plant at ABU QIR Training Center (Alexandria – Egypt).
: Training Course in Bar Code at ORATECH Training Center (Cairo – Egypt).
: Training Course in preparation of Instructor at ABU QIR Training Center (Alexandria – Egypt).
: Training Course in Electrical Insulation Test of SF6 Gas from E.P.S Training Center (Cairo – Egypt).
: Training Course (Workshop) in Contract/Subcontract Formation (CTR246), Contracts Administration (CTR247) and Negotiations (CTR241) from BECHTEL at Concord El Salam Hotel (Cairo – Egypt).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Mar. 2012 till now
Employer	:	West Delta Electricity Production Company
Project	:	DAMANHOUR Thermal Power Plant
Job title	:	Head of Electrical Maintenance Department

Dates	:	From May 2011 till Aug. 2011
Employer	:	Saudi Services for Electro Mechanical Works Co. Ltd. (SSEM) – KSA
Project	:	RAFHA Power Plant Phase 2 (2x80MW Gas Cycle Power Plant Project, "Saudi Electricity Company" SEC), Combustion Turbine Generator CTGs manufactured by SIEMENS Company
Job title	:	Site Electrical Engineer
Job Description	:	• Establish temporary construction power system (mount distribution panels, laying cables, lighting, and etc.) for accommodation, offices and site. • Installation of main ground grid and make the connections by the endothermic method as approval drawings. • Rebar earthing of all foundations in site and bound it to the grounding system. • Follow up installation of Cathodic Protection System at bottom of metal tanks for fuel oil storage tanks and fire water tank in site. • Prepare materials list and its needs according to the approved drawings.

Dates	:	From Dec. 2010 till Jan. 2011
Employer	:	PGESCO (Power Generation Engineering and Services Company)
Project	:	Abu Qir Thermal Power Plant, consists of two gas/oil fired units (2x650MW Steam Turbines Generators Units manufactured by MITSUBISHI Company)
Job title	:	Electrical Construction Engineer
Job Description	:	• Perform receipt inspection of contractor's material deliveries and sign off on Material Receiving Reports (MRR). • Follow up erection and installation of embedded and underground main grounding as approved drawings. • Witnessed earth electrode resistance test for all pigtails of underground main grid as approved procedure test. • Follow up erection and installation of underground duct banks, cable trenches, manholes, embedded conduits, exposed conduits, and cable trays … as layout site plot plan drawings. • Follow up function test for turbine building bridge crane 100/40t main hoist and aux. hoist during lifting, lowering, cross travel, and long travel at 100% of rating load by KONECRANES TA. • Follow up and provide technical advice for guy's contractor during install all electrical raceway and supports necessary to complete the raceway system for cables to be installed. • Follow up installation of Cathodic Protection System (Sacrificial (galvanic) cathodic protection system) for underground piping. • Follow up and provide technical advice for guy's contractor during install, check, and test all electrical cables (MV single core and LV power cables, control cables, and instrument cables). • Follow up installation, startup, commission and putting into successful operation the complete DC and uninterruptible power supply system (UPS).

Dates	:	From Nov. 2009 till Nov. 2010
Employer	:	PGESCO (Power Generation Engineering and Services Company)

Project : EL-ATF Combined Cycle Power Plant
(consists of one module configured as a 2x2x1 Arrangement (2x250MW Combustion Turbine Generator CTGs manufactured by MITSUBISHI Company, 2 Heat Recovery Steam Generators HRSGs manufactured by NEM Company and 1x250MW Steam Turbine Generator STG manufactured by ANSALDO Company) with a Rated Nominal Capacity of 750MW)

Job title : Commissioning & Start-Up Engineer

Job Description :

- Review the Electrical Work Permit and sign to authorize the planned work.
- Study with the engineering the modifications issues as required at site according to project technical specifications and standards.
- Follow up all Electrical activities and make sure that site activities are in line with project schedule.
- Review turn over package as per project technical specifications before transmitted it to owner.
- Follow up and advice contractors to take corrective action to close the major punch items and surveillance notices reports before issuance turn over acceptance certificate.
- Responsible from energizing of all electrical equipment in accordance with acceptable test procedures.
- Follow up pre-commissioning and commissioning of all types of Sump Pumps and ist accessories such as Local Control Panel and Level Control Switches.
- Follow up pre-commissioning and commissioning of Cathodic Protection System (Sacrificial (galvanic)) for underground piping network.
- Follow up pre-commissioning and commissioning of Cathodic Protection System (impressed current system) for Circulating Water Piping around CW Pump House, Circulating Water Piping around Condenser, and Bar Screen with other miscellaneous facilities.
- Follow up testing and commissioning of firefighting system and fire alarm system for CTG and STG power transformers.
- Follow up testing, commissioning and energize 0.4KV Water Treatment Motor Control Centers (1600A-50KA/1sec.).
- Follow up pre-commissioning, commissioning, and start-up of all type of motors like HP/IP Feed Water Pumps, Circulating Water Pumps, Condensate Pumps, and LP Feed Water Pumps, etc.
- Follow up commissioning and adjusting protection settings of all MCCB and MLP (S.C and MLP, including thermal O.L, G.F, U.V/O.V, UBC, and etc.) for 0.4KV low voltage distribution (Motor Control Center) by SCHNEIDER TA.
- Follow up testing, commissioning and energize STG main transformer 340MVA 220/15.75KV by AREVA TA.
- Follow up testing and Commissioning of ISO Phase Bus Duct between generator and excitation transformer, STG main transformer by ALSTOM TA.
- Follow up calibration and testing of hydrogen, humidity, and temperature sensors for ISO Phase Bus Duct by ALSTOM TA.

Dates : From Sep. 2008 till Oct. 2009

Employer : PGESCO (Power Generation Engineering and Services Company)

Project : NUBARIA Combined Cycle Power Station III
(consists of one module (one additional module will be added to the existing two modules) configured as a 2x2x1 Arrangement (2x250MW Combustion Turbine Generator CTGs MK VI (9FA) manufactured by GE Company, two Heat Recovery Steam Generators HRSGs manufactured by STF Company and 1x250MW Steam Turbine Generator STG manufactured by ALSTOM Company) with a Rated Nominal Capacity of 750MW)

Job title : Electrical Construction Engineer

Job Description :

- Follow up erection and commissioning all electrical systems (Cable tray – Raceway – Cables – MV switchgear – LV switchboard – Switchyard – Transformers – UPS –Battery – Battery Chargers – Aux. Systems like HVAC and fire alarm system) as consultant.
- Perform receipt inspection of Contractor's material deliveries and sign off on Material Receiving Reports (MRR).
- Prepare Contractor surveillance notices to document non-conforming conditions as required.
- Prepare field design changes such as field change requests and notices.
- Provide and coordinate responses to Contractor's Requests for Information.
- Create punch lists of the electrical system during erection and process those punch lists in accordance with the Construction Management Manual Punch list procedure.
- Implement PGESCo's safety management program and immediately address and resolve safety violations witnessed on site.
- Monitor installation, testing & commissioning of 6.3KV medium voltage distribution (SWITCHGEARS) 2500A, 40KA/1sec., 0.4KV low voltage distribution (LOAD CENTER) 2500A, 65KA/1sec. and 0.4KV low voltage distribution (Motor Control Center) by SCHNEIDER Company.
- Supervise and monitor cable termination for Medium and Low voltage to SWITCHGEARS, LC, MCC, and MV/LV electrical Motors.
- Witness and verify Continuity, Merger, HI-POT test and Component testing for Medium Voltage.
- Monitor installation, testing, and commissioning of all Power Cables (LV & MV), Control Cables and Instrument Cables.
- Monitor installation, testing, and commissioning of CTG Main, and Aux. Transformers by HYUNDAI.
- Monitor installation, testing, and commissioning of ISO Phase Bus Duct by ALSTOM and Generator Circuit Breaker GCB by ABB.
- Monitor installation, testing & commissioning of 500KV (SWITCHYARD) - circuit breakers GL317, Isolator Switches & Earth Switches by AREVA.
- Monitor installation, testing, and commissioning of Isolation Transformer, Excitation Transformer, LCI, PEEEC, Water Wish Skid, Atomizing Air Skid, Excitation Compartment, and all equipment for GE system.
- Monitor installation, testing, and commissioning of Lead Acid batteries LM 3000 by FIAMM & battery chargers 125V 1600A by BENNING.
- Monitor installation, testing, and commissioning of 125V DC switchboards 1600A & panel boards by BENNING.
- Monitor installation, testing, and commissioning of Distribution Panel Board - 230V AC UPS & CVT by BENNING.

Dates : From Jan. 2000 till Sep. 2008

Employer : West Delta Electricity Production Company

Project : DAMANHOUR Thermal Power Plant

Job title : Electrical Maintenance Engineer

Job Description :

- Issue and follow implementation of maintenance and preservation program of all electrical equipment.
- Responsible of EMPAC Program, that can collect all information about the equipment of the units and prepare Preventive Maintenance and spare parts of item inventory and load the date to the computer.
- Follow-up and implementation of maintenance works for electrical equipment like:
  - Synchronous generators, excitation system, ATS, and Transformers.
  - 6.3KV MV distribution board and associated SF6 circuit breakers, LV compartment, bus bar compartment, protection devices.
  - 0.4KV LV distribution board & associated MCCB, LV compartment, bus bar compartment, protection devices.
  - The control & power circuits for 6.3KV MV motors and 0.4KV LV motors.
  - 220V DC distribution board, lead Acid batteries 520 A/hr. and battery chargers.
  - 220V safe AC system 2 x 50 KVA.
  - 66KV outdoor HV SF6 circuit breakers, HV bus bar disconnecting switches, line and earthing disconnecting switches and its motor operating mechanism.
  - The ignition burners & soot-blowers control circuits for boilers.
  - Electrical motorized valves and valve actuators.
- Replacement and renovation of air blast circuit-breakers with new ABB SF6 circuit-breakers for 66KV switchyard.
- Replacement and renovation of bus bar disconnecting switches (air pressure operating mechanism) with new EGEMAC bus bar disconnecting switches (motor operating mechanism) for 66KV switchyard.
- Replacement and renovation of line and earthing disconnecting switches (air pressure operating mechanism) with new EGEMAC line and earthing disconnecting switches (motor operating mechanism) for 66KV switchyard.
- Replacement and renovation of MV distribution board and associated air blast circuit breakers with new AREVA MV distribution board and associated SF6 circuit breakers for 6.3KV switchgear.
- Replacement and renovation of LV distribution board and its circuit breakers with new LV distribution board and associated MOELLER circuit breakers for 0.4KV switchgear.
- Replacement and renovation of the existing generator excitation system and AVR with new ALSTOM static excitation system.
- Replacement and renovation of 220V Lead Acid batteries 520 A/hr. & battery chargers with new CHLORIDE 220V Lead Acid batteries 520 A/hr. & battery chargers.
- Rehabilitation of firefighting system and fire alarm system for power transformers (indoor & outdoor).