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Electrical Construction & Maintenance Manager

Holds a B. Sc. in Electrical Engineering and has about 29 years hands-on experience working in installation, commissioning, start-up, operation and maintenance of combined cycle power generation, and desalination units, GIS substation and HV switchgear.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 17/02/1964
Gender : Male
Marital Status : Married
Residence : Damietta

EDUCATION

: B. Sc. in Electrical Engineering, Suez Canal University, 1987

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Programming in C language

TRAINING COURSES AND CERTIFICATIONS

: Installation, testing, and commissioning of 220/66KV SF6 substation by Merlin Giren.
: Operation and maintenance of Siemens V94.2 GT and auxiliaries, 220KV SWGR SF6.
: Operation and maintenance of Steam turbine, Main generator, Exciter, Main transformer and auxiliaries, by GEC Alsthom.
: Amplissima Program application and using for work request, PTW issue planning, store management, PM, purchasing, and equipments technical data register at Computer Department, Egypt.
: Windows 95 program at Computer Department, Egypt.
: Computer programming C Language at Computer Department, Egypt.
: Conductor VMS application using for DCS, by ELSAG BAILY.
: Steam turbine & generator operation training by GE at Taweelah B.
: Balance of plant by Eastern Bechtel Company at Taweelah B.

- : HRSG (Cogeneration units) operation training by Aalborg Industries, with RV combustion system operation, by Rodenhis & Verloop.
- : Desalination plant operation training by Hitachi Zosen at Taweelah B.
- : MAXIMO (CMMS) Standard Users Course at ADWEA Premises.
- : H.S.E. Management System, standards, and policies at Taweelah B.
- : ICDL certification program, in the Higher College of Technology, Abu Dhabi.
- : Operation of GT (V94.3) 299MVA, 417MVA ST by Siemens, Abu Dhabi.
- : TXP System, monitoring and control, Siemens Erlangen, Germany.
- : 800Xa SV5.0, DCS upgrade by ABB at Abu Dhabi (Aug. 2010).
- : GT generator maintenance, by GE (Jun. 2012.).
- : EX2100, excitation maintenance, by GE (Jun. 2012).
- : PACiS protection and control devices maintenance, by Schneider (Jul. 2012).
- : SAS substation automation system maintenance, by Schneider (Jul. 2012).
- : 245KV GIS construction, operation and maintenance by Hyundai (Aug./Sep. 2012).
- : 6.6KV switchgear and protection construction, operation and maintenance, by Schneider.
- : 400 v switchgear construction, operation and maintenance, by Schneider.
- : MTU emergency diesel generator with Leroy Somer generator, by MTC.
- : Maintenance of power transformers (TAMINI), at ANSALDO Training Center, Genoa – Italy.
- : Maintenance of generator circuit breakers (Alstom) at ANSALDO Training Center, Genoa – Italy.
- : Maintenance of ABB low voltage systems, at ANSALDO Training Center, Genoa – Italy.
- : ICDL by UNESCO (May 2004).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2011 till now
- Employer** : East Delta Electricity Production Company
- Projects** :
 - New West Damietta Power Project (Simple Cycle) (from Jan. 2015)
 - West Damietta Power Plant (Simple Cycle) (from Aug. 2011)
- Job title** : Electrical Construction & Maintenance Manager
- Job Description** :
 - New West Damietta Power Project (Simple Cycle) & West Damietta Power Plant (Simple Cycle):
 - Review all documents and drawings.
 - Review material submittals, method statements, ITPs and quality plan.
 - Attend regular meetings with main contractor, consultants to discuss key issues related to project and take effective, corrective actions.
 - Conducting site inspections, material inspection, and lead engineers for verification of all electrical construction, pre-commissioning and commissioning works according to project specifications, and last revisions of drawings and documents.
 - In charge to certify equipment construction completion and take over, and project TOAC.

- Reporting to general manager, and plant sector president.
- Prepare and implement training for engineers and technicians for plant electrical systems and equipments maintenance.
- Prepare and guide maintenance team to execute of preventive maintenance programs for all electrical equipment, according to vendor documentations.
- Prepare and review spare parts and special tools list recommended by vendor.
- Guide the maintenance team to implement any corrective maintenance required.
- West Damietta Combined Cycle: review project contracts.
- New West Damietta Combined Cycle:
 - Review all documents and drawings.
 - Review material submittal, method statements, ITPs and quality plan.
 - Attend regular meetings with main contractor to discuss key issues related to project and take effective and corrective actions.
 - Conducting site inspections, material inspection and lead engineers for verification of all electrical construction works, according to the project specifications, and last revisions of drawings and documents.

Dates : From Dec. 2010 till Jul. 2011

Employer : Kharafi National

Project : Damietta

Job title : Senior Project Engineer, Deputy Construction Manager

Job Description :

- Guide the installation, testing, commissioning and start-up activities of electrical systems in coordination with subcontractors and consultant.
- Review the design drawings, shop drawings and as built, perform necessary modifications.
- Review material submittal, method statements, ITPs and quality plan.
- Lead the team to perform required test, continuity, megger, heat run test.
- Oversee inspections on site, and attend regular meetings with subcontractor, consultants and client to discuss key issues related to project and take effective corrective actions.
- Reporting to construction manager and project manager.

Dates : From Jul. 2005 till Dec. 2010

Employer : Taweelah ASIA Power Company, ADWEA, Abu Dhabi

Project :

- B:
 - Six boilers x 680 t/h.
 - Six HP/LP condensing ST x 145MW, ABB.
 - Six Distillers x 12.5 MIG/D, Fisia Italmimpianti.
- B Extension:
 - Two GT Frame 9 x 121MW.
 - One Back press. ST x 143MW by GE.
 - Two HRSGs + aux firing x 420 t/h, by Aalborg Keystone.
 - Three MSF Distillers x 7.5 MIG, Hitachi.
- New B Ext.:
 - Three GT (V94.3A) x 299 MVA, Siemens.
 - One Back press. ST, 417 MVA.

- Four MSF Distiller x 16.8 MIGD, Fisia Italimpianti.
- Job title** : Sr. Control Room Engineer, reporting to Shift Manager
- Job Description** :
- Conducted site inspections, and verification of construction work for the project, ensure that commissioning and testing procedures are followed, and recommended corrections to be made.
 - Ensure that proper safety procedures are followed.
 - Directed operation, monitoring, start-up and shut down of GT, HRSG, ST and Distiller, ensure safe and reliable operation of power plant equipment, using conductor VMS system.
 - Lead operation staff, demonstrate continuous effort to ensure smooth operation of the plant auxiliaries, work cooperatively and jointly to provide quality.
 - Used computerized maintenance management system CMMS (MAXIMO) for work request, PTW issue, plan, isolation of faulty equipment.
 - Directed operation, supervision of startup and shut down ABB ST, Boiler and auxiliaries, checkup alarms, fault diagnostic and restore to normal operation.
 - Conversant with HMI ABB dealing with:
 - Instrument and service air system.
 - Chemical dosing system.
 - Chlorination and CO2 production system.
 - Make up water system.
 - Condenser Cooling Water System.
 - Diesel Generator System.
 - Step up, Station Service Transformers.
 - 400 & 132KV SWGR.
 - 11KV Bus Bars, SWGR and aux. supply.
 - In addition to DC supply system, Battery Chargers, UPS with Inverters.
 - Undertook and supervise carrying out all types of maneuvers, switching off/on according to PTW as well as emergency maneuvering.
 - Follow up installation and commissioning, attend training of the new extension.
- Dates** : From Mar. 1999 till Jun. 2005
- Employer** : Taweelah Power Company, ADWEA, Abu Dhabi
- Project** :
- B:
 - Six boilers x 680 t/h.
 - Six HP/LP condensing ST x 145MW, ABB.
 - Six Distillers x 12.5 MIG/D, Fisia Italimpianti.
 - B Extension:
 - Two GT Frame 9 x 121MW.
 - One Back press. ST x 143MW by GE.
 - Two HRSGs + aux firing x 420 t/h, by Aalborg Keystone.
 - Three MSF Distillers x 7.5 MIG, Hitachi.
- Job title** : Control Room Engineer, reporting to Shift in Charge Engineer
- Job Description** :
- Conducted site inspections, and verification of construction work for the project, ensure commissioning test procedures are followed, and recommended corrections to be made.
 - Ensure that proper safety procedures are followed.

- Directed operation, monitoring, startup and shut down of GT, HRSG, ST, and Distiller, ensure safe and reliable operation of power plant equipment, using conductor VMS system.
- Lead operation staff, demonstrate continuous effort to ensure smooth operation of the plant auxiliaries, work cooperatively and jointly to provide quality.
- Used computerized maintenance management system CMMS (MAXIMO) for work request, PTW issue, plan, isolation of faulty equipment.
- Directed operation, supervision of start-up and shut down ABB ST, Boiler and auxiliaries, checkup alarms, fault diagnostic and restore to normal operation.
- Conversant with HMI ABB dealing with all balance of plant equipments.
- Undertook and supervise carrying out all types of maneuvers, switching off/on according to PTW as well as emergency maneuvering.

Dates : From Aug. 1990 till Feb. 1999

Employer : EEA

Project : Damietta Combined Cycle Power Plant:

- 6 GT (V94.2) x 135MW, Siemens.
- 6 HRSGs x 280 t/h, Babcock Borsig.
- 3 ST x 140MW, GEC Alsthom.
- 220KV SWGR SF6 + 220/66KV Substation SF6, AEG.
- SCADA/ DCS for Supervisory Control and monitoring, Westinghouse.

Job Description :

- Electrical Engineer:
 - Operation supervision of 220KV SF6 switchgear, made by AEG.
 - Carrying out all maneuvers scheduled with load dispatch center, and emergency maneuvering.
 - Inspection committee member of SF6 substation and SWGR, Damietta CCPP.
- Shift Engineer:
 - Operation, monitoring, startup and shut down of GT and auxiliaries, checkup Alarms, fault diagnostic and restore to normal operation.
 - Operation, start-up and shutdown of condensing ST, HRSG and auxiliaries.
 - Fault diagnostic, restore systems to normal operation.
 - Operation, follow-up and ensure smooth operation of the power plant common area auxiliaries, fault diagnostic and restore to normal operation.
 - Using AMPLISSIMA management system for work request, PTW issue, plan, isolation of faulty equipment, normalizing and equipment test.

Dates : During 1990

Employer : Delta East Power Company

Project : Talkha Substation 220/66/6.3KV SF6

Job title : Electrical Engineer

Job Description : Follow up Installation, participating in testing and commissioning of Talkha Substation, attending all installation activities, in addition to testing and commissioning of equipments:

- Power transformers.
- 220KV SWGR, SF6.
- Control and protection relays.
- 66KV SWGR, SF6.
- 220KV, 66KV cables laying termination testing and connection.
- Connection of switchgear 220KV SF6 to overhead lines.
- Connection of switchgear 66KV SF6 to underground cables.

Dates : From 1988 till 1990

Employer : Private Sector

Job Description :

- Undertook repair and maintenance of all electrical appliances including motor rewinding.
- Guide and train a group of engineers and technicians to use tools and measuring devices.
- And repair motors and other appliances.

Field of experience :

- About 29 years experience in installation, commissioning, start-up, operation and maintenance of combined cycle power generation, and desalination units, GIS substation and HV switchgear.
- Experience in GT power plant, installation, commissioning, operation, and maintenance.
- Experience in GIS Substation and switchgear installation, testing, operation, and maintenance.
- Experience in HRSG boilers with supplementary firing commissioning and operation.
- Experience in MSF desalination units commissioning and operation.
- Conversant with CMMMS (MAXIMO), familiar with SCADA & DCS operations.
- Conversant with HSE policy, rules and regulations.
- Skills:
 - High technical competence in electrical generation, transmission, and distribution.
 - Logical analysis capability for problems, quick and safe response at emergency.
 - Ability to interact with individuals and groups at all levels.
 - Ability to work independently and under pressure.
 - Effective communication skills with co-workers and superiors.
 - Desire to succeed and learn new skills.