100817-ELE-MOPT-E-2001
Senior Electrical Project Engineer

Holds a B. Sc. and a Diploma in Electrical Power & Machines Engineering. Has over 14 years hands-on experience with strong background in the principles and practices of electrical generation, maintenance, electrical protection, testing & commissioning, start-up, shutdown and operation procedure for power plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	31/05/1978
Gender	:	Male
Marital Status	:	Married
Residence	:	Currently KSA

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Assiut University, 2001

: Diploma in Electrical Power & Machines Engineering, Assiut University, 2005

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Testing current transformers with the CT analyzer, OMICRON, KSA (Jun. 2015).

: Training on testing ABB relays (REL670, RET670, REF615), OMICRON, KSA (Jan./Feb. 2015).

: Training on testing SIEMENS relays (7SA610, 7UT611, 7SJ611), OMICRON, KSA (Jan. 2015).

: Training on testing ALSTOM relays (Micom P442), OMICRON, KSA (Jan. 2015).

: How to test transformer differential protection relay, Alfanar (Nov. 2014).

: Occupational safety and health management – OSHA, ISCOSA, KSA (Nov. 2013).

: The control circuits basics, Network Training Center (11 days).

: Transformer equipments and measuring power (P1), Network Training Center (3 weeks).

: Protection basics (P2), Network Training Center (2 weeks).

: Awareness protective for the company engineers, The Company Training Center (6 days).

: 4 courses on English Intermediate (301, 302, 303, 304), American Center for Continuing Education (ACCE) in Assiut (2003/2004).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jul. 2012 till now
Employer : Saudi Electricity Company
Project : PP3, KSA
Job title : Senior Electrical Project Engineer
Job Description : Electrical protection, testing and commissioning.

Dates : From May 2011 till Jul. 2012
Employer : Upper Egypt Electricity Production Company
Project : Assiut Thermal Power Plant 2x312MW
Job title : Senior Maintenance, Protection & Testing Engineer
Job Description : Testing of Generator, Transformer, 220KV T.L./Bus bar, Feeder/Bus bar of 6.3KV Protection Relays, SF6 Gas CB Test.

Dates : From Dec. 2009 till Feb. 2011
Employer : Initec Energia
Project : El-Tebbin Steam Power Plant 2x350MW
Job title : Generation Unit Commissioning & Start-up Project Lead Engineer
Job Description :

- Direct and manage project development from beginning to end.
- Single point of accountability to oversee, direct and manage deliverables of power projects to client from end to end of project sales to aftermarket.
- Supervising the entire project and commissioning engineers for the project.
- Define project scope, goals and deliverables that support business goals in collaboration with senior management and stakeholders.
- Develop full-scale project plans and associated communications documents.
- Preparing project chart and following the progress of the whole project on daily bases.
- Effectively communicate project expectations to team members and stakeholders in a timely and clear fashion.
- Liaise with project stakeholders on an ongoing basis.
- Estimate the resources and participants needed to achieve project goals.
- Draft and submit budget proposals, and recommend subsequent budget changes where necessary.
- Proactively identify and remove any and all risks to project deliverables (cost, schedule, quality, etc).

- Create contingency plans where required, negotiate with other department managers for the acquisition of required personnel from within the company.
- Planning, control and coordination of commissioning activities (schedule, risk, work packages).
- Execution of tests and sign-off procedures.
- Supervision of adherence to HSE standards.
- Handover and training of local staff for maintenance and service.
- Completion and quality control of plant documentation.
- Determine and assess need for additional staff and/or consultants and make the appropriate recruitment if necessary during project cycle.
- Set and continually manage project expectations with team members and other stakeholders.
- Delegate tasks and responsibilities to appropriate personnel.
- Identify and resolve issues and conflicts within the project team.
- Receiving the systems from QC (Quality Control) & Construction.
- Professional for using DCS.
- Scheduling the procedure of the different systems.
- Preparation and execution of the pre-commissioning and commissioning tasks.
- Supervision of the planning works in advance.
- Motor heat-runs, system flushing, blow-out, chemical cleaning and restoration works.
- Starting of the systems with data sheet references.
- Handover of the systems with the integrated rules.
- Familiar with fire fighting systems (commissioning) especially in large power plants (halon, CO2, foam, water, etc.).
- Operation & maintenance for H2 PLANT (type: H2 cell, made by: Eastern Electrolyses LTD).
- Coach, mentor, motivate and supervise project team members and contractors, and influence them to take positive action and accountability for their assigned work.

Dates	:	From Sep. 2008 till Dec. 2009
Employer	:	Upper Egypt Electricity Production Company
Project	:	Assiut Thermal Power Plant 2x312MW
Job title	:	Senior Maintenance, Protection & Testing Engineer
Job Description	:	Testing of Generator, Transformer, 220KV T.L. /Bus bar, Feeder/Bus bar of 6.3KV Protection Relays, SF6 Gas CB Test.

Dates	:	From Sep. 2007 till Sep. 2008
Employer	:	Saudi Electricity Company
Project	:	Eastern Region, KSA
Job title	:	Consultant Engineer
Job Description	:	• Electrical Consultant to the work of electrical installations in receipt of the electrical installations and testing some low-power systems, sound system and fire system tasks. • Identify and manage project dependencies and critical path. • Track project milestones and deliverable.

- Plan and schedule project timelines and milestones using appropriate tools.
- Develop and deliver progress reports, proposals, requirements documentation and presentations.
- Determine the frequency and content of status reports from the project team, analyze results, and troubleshoot problem areas.
- Proactively manage changes in project scope, identify potential crises, and devise contingency plans.
- Define project success criteria and disseminate them to involved parties throughout project life cycle.

Dates : From Sep. 2004 till Sep. 2007
Employer : Upper Egypt Electricity Production Company
Project : Assiut Thermal Power Plant 2x320MW
Job title : Operation Engineer
Job Description :

- Start-up procedures for system unit 320MW (Cold start, Warm start, Hot start-up).
- Monitoring and reporting the equipments conditions during normal operation.
- Testing and changing over for all equipment locally and from control room.
- Safe shut down and emergency operation procedures for steam unit of 300MW.
- Reporting and analysis of irregularities conditions of all equipment of steam unit (turbines, boilers, combustion system, feed water system, oil fuel feeding system, compressors, heaters, lubrication system, seal system, EHC system, cooling system, heat recovery system).
- Making daily technical reports about the steam unit abilities & efficiency.

Dates : From Jun. 2002 till Sep. 2004
Employer : Upper Egypt Electricity Production Company
Project : Assiut Thermal Power Plant 3x30MW
Job title : Operation Engineer

Field of experience :

- Dealing with lubrication systems (pumps, filters, actuators, accumulators, purifiers).
- Dealing with (control valves, actuators, solenoids).
- Dealing with machine condition analysis.
- Dealing with (O&M) pumping system (centrifugal pumps from (1 to 200) bar delivery pressure screw pumps from 1 to 30 bar DP.
- Dealing with (O&M) compressors (centrifugal & reciprocating).
- Dealing with combustion system in boiler (fan – FDF & GRF) oil pumps, burners, dampers, valves, optimum firing, Flame analysis, oil storage, oil analysis, gas and exhaust analysis for any equipment, for example firing operation in boiler and engine.
- Dealing with (O&M) of heat exchangers (cleaning, welding, re-tubing, hydraulic tests).
- Dealing with (O&M) hydrogen production plant (KOH pumps and vessel & H2 compressors and vessels & electrical analyzer & O2compressors, valves and regulators & filler).

- Dealing with fire fighting systems (water system & From System Powder system alarm panels).
- Good dealing for the industry safety requirements.
- Make connection and disconnection of electrical circuits of voltage 220KV, 380 V.
- Make connection and disconnection of electrical circuits of voltage 132KV, 3.3KV, 6.3KV and dealing with sf6 breakers, Oil, Air, vacuum, carbon sheets breakers.
- Experience in a project management capacity with a Generator Manufacturer / OEM or Generator Distributor including all aspects of process development and execution of large scale power projects involving generators.
- Strong background in the principles and practices of electrical generation, maintenance, electrical protection, testing & commissioning, start-up, shutdown and operation procedure for power plants.
- Demonstrated experience in personnel management.
- Strong familiarity with project management software's.

<u>Relays which I test them:</u>

- 220KV Level:
  - Distance Relay: LZ96 – Razfe – L8b (ABB).
  - Over current Relay: TCO23B-DU2K, TCO21B-DU22K, TCO22B-DU1K (TOSHIBA), PRAJ 131 (ABB), SPAJ 140C (ABB).
  - Earth Fault Relay: TCO21B-DUIK, TBB7B-DU2X (Restricted Earth Fault), TOSHIBA.
  - Directional Relay: TDS2B-CG1, TDG20B-EG2 (TOSHIBA), SPAA 321C (ABB).
  - Differential Relay: TBB7B-DU2X, TB11B-TU2K (TOSHIBA), RADHA (ABB).
  - Breaker Failure Relay: TCO24B-TU1Q (TOSHIBA).
  - Under Voltage Relay: TVU3F-BG21, TVU3F-BG31.
- 6.3KV & 380V Level:
  - Over current Relay: ICO1D-AT3H, ICO1F-AT2H (TOSHIBA), IKC 913 (ABB).
  - Earth Fault Relay: ICO1D-AT1 (TOSHIBA), IKC 911 (ABB).
  - Differential Relay: ICO1F-AT2H (TOSHIBA), IKC 913 (ABB).
  - Under Voltage Relay: IVU1F-AG1, IVG1D-BG1 (TOSHIBA), UKT 911 (ABB), TVU3F-BG21 (ABB).
- Generator Protection:
  - Gen. Impedance back-up Relay (21G): CYS2D-BS1 (TOSHIBA), RAKZB (ABB).
  - Gen. Reverse power Relay (32G): CW-12B-D (TOSHIBA), RXPE40 (ABB).
  - Gen. Loss of field Relay (40G): TYRID-BT1 (TOSHIBA), RAGPC (ABB).
  - Gen. Negative phase sequence Relay (46G): TQRID-MC4K (TOSHIBA), RARIB (ABB).
  - Gen. Over current Relay (51G): TCO21B-DU1K (TOSHIBA).
  - Gen. VT voltage balance Relay (60G): TBV4D-DU1X (TOSHIBA), RXBA4 (ABB).
  - Gen. Stator earth fault Relay (64G): TRG1D-MC6K (TOSHIBA), RAGEA (ABB).

  - Turbine/Gen. Under frequency Relay (81L): TFF6B-MC1K (TOSHIBA), RXFE4 (ABB).
- Over frequency Relay (81H): RXFE4 (ABB).
  - Gen. Differential Relay (87G): TBR1F-BS2 (TOSHIBA), RADSG (ABB).
  - Gen. Transf. Differential Relay (87GT): TBT11B-TU2K (TOSHIBA), RADSB (ABB).
  - Gen. Over excitation Relay (59 V/F): THV2D-MC5K (TOSHIBA), RATUB (ABB).
  - Gen. Field earth fault Relay (64GE): TCR3D-BS1 (TOSHIBA), RXNB4 (ABB).
  - Excitation transf. Differential Relay (87E): IBT1D-BT2 (TOSHIBA).
  - Dead machine Relay (51/27): RAGUA (ABB).
  - Under Voltage Relay (27G): RXEG21 (ABB).
  - Over Voltage Relay (59G): RXEG21 (ABB).
- Transformer Protection:
  - Over current Relay: SPAJ 142C (ABB).
  - Restricted Earth Fault: RADHD (ABB).
  - Earth fault Relay: RXIG21 (ABB).
  - Differential Relay: RADSB (ABB).
  - Bochhlez Relay.
  - Pressure Relief Relay.