1063-EL-O-E-2001
Senior Operation Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 10 years experience mainly in operation field.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	13/11/1979
Marital Status	:	Married

EDUCATION

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

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Matlab, pscad
: programming language (C, C++)
: DCS Control Systems
: Mark V, Mark VI Control Systems

TRAINING COURSES AND CERTIFICATIONS

: Training in the operation system for combined cycle, Training Center (West Delta Electricity Production Company):
- Starting up for gas turbine, boiler and steam turbine (combined cycle).
- Shut down for gas turbine, boiler and steam turbine (combined cycle).
- Operation from local control (Mark II, Mark V) and remote control (DCS).

: Training in the Up normal operation cases and general troubleshooting for steam power plant, Training Center (West Delta Electricity Production Company):
- Black start for gas turbine, boiler and steam (combined cycle).
- Tripping cases.

: Training in the winding machine in mechanical and electrical laboratory, Egypt:
- Winding for three phase induction motor and testing.
- Winding for single phase motor and testing.
- Winding for power transformer and testing.

: Training in the installation for power transformer station, Egypt Electricity Transmissions Company:
- Install power transformer.
- Install control and protection panel.
- Termination protection panel.

: Training in the maintenance of electrical distribution system, Electricity Distribution Company:
- Measurement device.
- Low voltage switchgear.
- Medium voltage switchgear.

: Hardware by Grad.

: C++ language by Grad.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Dec. 2010 till now

Employer : West Delta Electricity Production Company

Project : El-Mahmoudia Combined Cycle Power Plant (500MW)

Job title : Senior Shift Operation Engineer

Job Description : Leader for all operation shift engineers and open and close all job order with all maintenance engineers.

Dates : From Nov. 2008 till Nov. 2010

Employer : Al-Toukhi Company for Industry, Trading & Contracting, Riyadh – KSA

Projects :
- Riyadh, head office for Al-Toukhi, KSA
- Wadi Al-Dawaser, Power Plant, Reinforcement, KSA

Job title : Protection Engineer
(design, installation, interfacing, testing, commissioning and start-up)

Job Description :
- Installation, interfacing, testing, commissioning and start-up for protection system.
- Experience of installation & interface and commissioning of protection panels, GALC, GNAC, GC, limit Amp and EX. Model 7EA for Gas Turbine Generator (GTGs) as manufactured of General Electric (GE), USA along with required auxiliaries for safe and continuous operation of the power plant. Total generation capacity of Wadi Al-Dawaser, Juba Power Plant, Ext - II, 2x112 MVA = 224 MVA, Mark VI.
- Medium voltage switchgear, low voltage switchgear, auxiliary transformer and main transformer.
- Responsible in office review for protection systems main generator, main transformer, auxiliary transformers, medium switchgear and low voltage switchgear schedule for protection cables and termination for protection cables.
- Responsible in site installation, pulling cable, interfacing, terminal & testing, metering and commissioning the following:
  - Generator protection panel:
    - GE GPP, USA contains G60A, G60B, T60U. C60, GEN NEXES, BUS NEXES.
  - Generator Line Accessory Compartment:
    - GE. GLAC, USA contains current transformers, voltage transformers, surge arrestor.

- Generator Neutral Accessory Compartment:
  - GE. GNAC, USA contains current transformers, Earthing transformer, Earthing Resistance.
- Generator circuit breaker:
  - PACE GCB USA contains CB 5000 A / 13.8KV, surge arrestor current transformers, voltage transformers Earthing Switches.
- Excitation panel:
  - GE EX2100 panel contain automatic voltage regulator.
- Limit Amp panel (DOL):
  - Schneider Electric DOL control and protection panel for starting motor to gas turbine SEPAM RELAY (M41) at 4.16KV.
- Medium voltage switchgear:
  - Schneider Electric contains three incomers, ten feeders and bus section (13.8KV, 1250A) SEPAM RELAY (S80, T87, D32, T81).
- Main low voltage switchgear:
  - Schneider Electric contains unit switchgears, station switchgears, lighting switchgears (480V, 220V) MCCB (4000A), MCB.
- POB low voltage switchgear:
  - Schneider Electric contains unit switchgears, treatment plant switchgears (480V) MCCB (4000A), MCB.
- Generator system unit transformer:
  - GSUT, 132/13.8KV, 110MVA, protection panels AREVA (P633. P122, MVAJ205, MVAA21, MVAX12).
- Automatic voltage control panels:
  - AVC for tap changer SPAU 314 and TABCON 240.
- GIS 132KV switchgear:
  - Extension for GIS 132KV switchgear by 4 new CB, 4 remote control panels, Protection panels, AVC panel and modification for existing system.
- 33KV switchgear:
  - Extension for 33KV switchgear double bus bar by 3 new CB with control metering and modification for existing system.

Dates : From Jul. 2006 till Aug. 2008

Employer : Annasban Group, Trading & Contracting, Riyadh – KSA

Project : King Fahd Culture Center

Job title : Leader of electrical and lighting theaters department

Job Description :

- Operation and maintenance for all the electrical system, main power for this system (20MW) and lighting theaters, contains three theaters.
- Responsible to operation and maintenance for following systems:
  - 13.8KV Medium switchgear:
    - BBC, contains two main incomers, two emergency incomers, twelve feeders and two bus coupler (13.8KV, 20MW).
  - Four low voltage switchgears:
    - BBC, contains two incomers from two transformer, more feeders and bus coupler (380V, 2500A).
  - Twelve transformers:
    - STC. 8x1250KVA + 3x1000KVA + 1x630KVA.
  - Illumination:
    - BBC. 30 panels with remote control and more types lamps.

- Lighting theater:
  - France, three theaters from different types, sizes and lighting systems contains spotlights, fullspot, smoking, change colors, laser, Dimmer, control consol (mixer).

Dates : From Aug. 2002 till Jul. 2006
Employer : West Delta Electricity Production Company
Project : El-Mahmoudia Combined Cycle Power Plant (500MW)
Job title : Operation & Control Engineer
Job Description : Responsible for operation and control for the following:

- Gas Turbines:
  - Gas turbine 4x50MW types R.R. control (PLC).
  - Gas turbine 8x25MW types GE control (Mark II).
- Steam Turbine:
  - Steam turbine 2x58MW types GE control (Mark V).
- Boiler:
  - Boiler (HRGS) types NEM control (DCS) 8x50 ton steam.
- 220KV switchyard:
  - Electrical Distribution system (220KV by 500MW).
- 66KV Substation:
  - Power transformer for substation (2x250/90 MVA, 220/66/11KV) 66kv SWGR double busbar.
- Generator system unit transformers:
  - Main power transformers (4x56 MVA + 2x125 MVA + 2x64 MVA).
- Low voltage switchgear:
  - 6.3KV and 380V SWGR supply to all system inside plant.

Dates : From Jan. 2002 till Aug. 2002
Employer : Military Ministry
Job title : Maintenance Engineer
Job Description : Responsible for maintenance of electrical systems such as transformers, distribution panels, illumination and cables.

<u>Academic Publications:</u>

- Operation system for combined cycle power station, about El-Mahmoudia Power Plant (2004).
- Distribution power system, about El-Mahmoudia Power Plant (2005).
- Generation power system, about El-Mahmoudia Power Plant (2006).
- Testing and commissioning for transformer, generators and protection system (under executive).