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Electrical Maintenance Engineer

Holds a B. Sc. in Electrical Power Engineering and has over 17 years hands-on experience working in construction, maintenance, testing, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 29/10/1975
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Electrical Power Engineering, Alexandria University, 1998

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Matlab
: Computer Networks (LANs)

TRAINING COURSES AND CERTIFICATIONS

: Training with MHI Takasago Company on gas turbine unit and GT electrical and control package (off-shore) (May/Jun. 2008).
: Training with MELCO Kobe Company on gas turbine generator, auxiliaries, protection and static excitation system (off-shore) (Jun. 2008).
: Training with MHI Company on gas turbine generator unit (on-shore) (Apr./May 2009).
: Training with Ansaldo Company on steam turbine, generator – O&M (on-shore).
: Training with CONSUKORRA on black start Diesel Generator System (on-shore).
: Training Course of ZTR transformers 500/220KV (on-shore).
: Training Course of SIEMENS protection devices (SIPROTEC 4), on-shore.
: Training Course of AREVA main transformers 21/500, 15.75/500KV (on-shore).
: Training Course of AREVA auxiliary transformers 21/6.3/6.3KV (on-shore).

- : Training Course of AREVA SF6 generator circuit breaker FKG1 (on-shore).
- : Training Course of AREVA protection devices (MICOM), on-shore.
- : Training Course of Schneider protection devices (SEPAM), on-shore.
- : Training Course of Schneider medium and low voltage switchgears (on-shore).
- : Training Course of Schneider dry type transformers 6300/400V (on-shore).
- : Training Course of GUTOR AC and DC UPS (on-shore).
- : Training Course of SIEMENS GIS circuit breakers (on-shore).
- : Training Course of IRIS generator partial discharge and rotor shorted turn monitor (flux trac), on-shore.
- : Training Course of BRUGG extra high voltage (500KV) under ground cable (on-shore).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2015 till now
Employer : Saudi Electricity Company (SEC)
Project : Rabigh Power Plant stage VI
 (4x700MW steam turbine generators by Doosan Heavy Industries)
Job title : Electrical Maintenance Engineer

Dates : From May 2011 till Mar. 2015
Employer : Sidi Krir Generating Company
Project : 2x360MW steam turbine generators by ALSTOM
Job title : Senior Electrical Maintenance Engineer

Dates : From Mar. 2000 till May 2011
Project : Sidi Krir Combined Cycle Project 750MW:

- 2x250MW Combustion Gas Turbine Generators by MHI
- Two Heat Recovery Steam Generators by NEM
- 1x250MW Steam Turbine Generators by Ansaldo

Job title : Electrical Maintenance Supervisor
Job Description :

- Construction, start-up, commissioning and maintenance of:
 - Gas turbine generator 350 MVA / 21KV hydrogen cooled with static excitation system and Beckwith protection devices (M3425-A) for generator and (M3310) for excitation transformer.
 - Steam turbine generator 340 MVA / 15.75KV hydrogen cooled with static excitation system and MICOM protection devices.
 - Main transformers 300 MVA 21/500KV oil immersed off load tap changer with Siemens Seprotec. Protection devices.
 - Auxiliary transformers 32 MVA 21/6.3/6.3KV oil immersed on load tap changer with Siemens Seprotec. Protection devices.
 - Medium voltage switchgears (6.3KV) Schneider SF6 type circuit breakers with Sepam protection device.
 - Low voltage switchgears (380 V) air type circuit breakers Schneider.
 - 125V DC systems including batteries, battery chargers, inverters, UPS system by GUTOR.

- 1750 KVA black startup Diesel generator with dynamic excitation system.
- Cathodic protection System impressed current and sacrifices anode by (NCE).
- Trash Rack and Traveling Screen Systems.
- 500KV under ground cable with air side termination and sf6 side termination by (BRUGG).
- 6.3KV induction motors, 400V induction motors, 125V DC motors and local control panels.
- Earthing grid systems by (OTAK).
- Maintenance and testing of:
 - High voltage (220KV) GIS (SF6 isolation) including: bus bars, circuit breakers, isolators, ground switches, P.Ts, C.Ts, control & protection systems.
 - 376 MVA / 21KV hydrogen cooled synchronous generator with static excitation system.
 - Main transformers 21/220KV oil immersed.
 - Start-up transformers 220/6.3/6.3KV oil immersed.
 - Auxiliary transformers 21/6.3/6.3KV oil immersed.
 - Medium voltage switchgears (6.3KV) vacuum type circuit breakers with multilen protection device.
 - Low voltage switchgears (380 V) air type circuit breakers with micro versa protection device.
 - 125V, 220V, 48V DC systems including batteries, battery chargers, inverters, UPS system.
 - 1250 KVA black start-up Diesel generator with dynamic excitation system.
- Testing of generator protection, transformer protection, high and low voltage switch gears protection devices, VT's and CT's using omicron cpc 100 and omicron cmc 365 and using freja 300 secondary injection devices.
- Construction, start-up & commissioning of:
 - Sidi Krir 220/500KV GIS Substation by Siemens AG containing 7 bay units with Seprotec Protection devices:
 - Two 245/550KV auto transformers by (ZTR) with OLTC.
 - Two over head lines 500KV with MICOM protection devices.
 - Three bays for combined cycle (steam/gas) units 750MW.