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Senior Electrical Utilities Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 17 years experience working in construction, maintenance, operation, testing and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 14/07/1984
Gender : Male
Residence : Suez

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, El-Shorouk Academy, 2006

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Master of Business Administration, Arab Academy for Science, Technology and Maritime Transport (in progress).
- : Level 2/8 English conversation (AMIDEAST).
- : Introduction in Word, Power Point, Windows and Internet, Engineering Syndicate.
- : Time and stress management (Logic).
- : Power cables selecting, testing and installation (OGS skills).
- : Medium voltage switchgear (SOPC Excellence Center).
- : Motor control centers (SOPC Excellence Center).
- : Hazard area electrical equipment specs. & selection (SOPC Excellence Center).
- : Power system earthing (SOPC Excellence Center).
- : M.V switch gear (Schneider Electric Egypt).
- : Electrical drawing by Visio (NPC Academy).
- : Low voltage and SEPAM (Schneider Electric).
- : Saudi Council of Engineers: ID299103.

- : Saudi Electricity Company (SEC) testing and commissioning approval: GES 090.
- : Certified CompEX E&I inspector (E01, E02, E03, EO4) certificate No.: 098876.
- : Certified SDI rescue SCUBA diver certificate No.: 1293312.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2021 till now
- Employer** : Suez Oil Processing Co. (SOPC)
- Project** : New Cocker Complex Project
- Job title** : Senior Electrical Utilities Engineer (electrical engineering sector)
- Job Description** :
- Review consultant electrical engineering transmittals.
 - Review CRSs issued by electrical team.
 - Review, reply & approve TQMs issued by consultant.
 - Review 3D Models for utility units.
 - Participate in (Technical Discussion meeting, 3D Models sessions, process unit's HAZOP study sessions, kick off Meeting).
 - Supervise M.V & LV SWGR FAT & Punch clearance.
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- Dates** : From Nov. 2020 till Jun. 2021
- Employer** : Suez Oil Processing Co. (SOPC)
- Job title** : Team Leader for utilities, tank farm & petroleum pump houses electrical workshop
- Job Description** :
- Install, start-up, commissioning, energizing & loading new M.V & L.V SWGR:
 - Tank farm MV (6.6KV) SWGR (9 Cells) Schneider.
 - Water utilities MV (6.6KV) SWGR (17 cells) Schneider.
 - Tank farm service EX panel LV (STAHL).
 - Air compressors LV with-drawable PMCC panel (Siemens).
 - Water treatment LV with-drawable PMCC extension panel (ABB).
 - Standard Kessel (FWP) LV MCC replacement (ABB).
 - North area Tank farm LV with-drawable PMCC (Schneider).
 - Upgrade BABCOCK water treatment MCC drawers with ABB UMC motor control and protection unit.
 - Follow up daily Preventive maintenance activities.
 - Supervise required corrective maintenance.
 - Prepare spare parts RFQs.
 - Prepare the 5 years investment budget for (new asset, assets upgrade and asset rehibition).
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- Dates** : From Jul. 2018 till Oct. 2020
- Employer** : Suez Oil Processing Co. (SOPC)
- Job title** : Technical Studies Section Head
- Job Description** :
- Review tenders for old SWGR renewal and new S/S SWGR (M.V & L.V).
 - Study vendor bids and review the technical evaluations.
 - Review and approve the vendor drawing (SLD & schematic diagrams).
 - Supervising the FAT inspection for electrical equipment.

- Supervising SWGR installation, testing & commissioning at site.
- Review spare parts, P.Rs, P.Os .
- Review protection relays final setting calculations, adjusting and testing.

Dates : From Jul. 2016 till Jul. 2018
Employer : Al Gihaz Holding Co. - KSA
Job title : Testing & Commissioning Engineer
Job Description :

- Testing M.V (13.8KV) switch gear components such as (C.T, V.T, C.B, B.B, E.S).
- Pre-check and function test for M.V SWGR schemes (ABB, Al Fanar).
- Testing H.V (110KV) GIS switch gear components such as (C.T, V.T, D.S, C.B, B.B, E.S, pressure gauge).
- Testing and commissioning L.V (380 Vac & 125 Vdc) distribution panels.
- Dealing with different Electrical Testers (Insulation tester – DC winding resistance test set – volt and current injection equipment – high voltage tester).

Dates : From Apr. 2009 till May 2016
Employer : Suez Oil Processing Co. (SOPC)
Job title : Electrical Engineer
Job Description :

- Installation, Testing, Troubleshooting and maintenance for MV SWGR (ABB, SCHNEIDER).
- Installation, Testing, Troubleshooting and maintenance for MOTOR CONTROL CENTER different manufactures (ABB (MNS), and SIEMENS (SIVICON)).
- Installation, Testing, Trouble shooting and maintenance for underground cables.
- Updating, wiring, programming, testing and start-up for protection relays different Manufacture:
 - ABB (SPAJ, SPAM, SPAU, REJ, REM, REU, UKT and JKT).
 - GE (MIV, MIF and MLJ).
- Trouble shooting and Maintenance of electrical equipment of water boilers different manufacture: STANDARDKESSEL, BABCOCK, and IBSF (soot blowers, FDF, feed water pumps, ...etc.).
- Maintenance of electrical equipment of water treatment stations (agitators, dosing, and pumps, etc.).
- Trouble shooting and Maintenance of electrical equipment of centrifugal air comp. (ELLIOT & INGERSOLLRAND).
- Trouble shooting and Maintenance of electrical motors up to 1MW different manufacture (ABB, SCHORCH, US Motors and Siemens).
- Troubleshooting and Make the required spec. and maintenance for explosion proof equipment such as lighting fixture, panels, motors (STAHL, COSIME, FEAM, and CEAG, ...etc.).
- Doing all shutdown and Electrical isolation activities and procedures.
- Write up recommendations for improvement.
- Tests continuity and performance of parts, assemblies, and accessories, using test equipment.
- Doing all maintenance activities and procedures (preventive maintenance, predictive maintenance...).

Dates : From May 2008 till May 2009
Employer : United Sugar Company Egypt
Job title : Maintenance Engineer
Job Description :

- Troubleshooting & maintenance for MCC (MNS.IS controller ABB).
- Troubleshooting & maintenance Switch gear (22KV & 11KV) (UNIGEAR ABB).
- Troubleshooting & maintenance Motor VFD different manufacture (SIEMENS, ALLEN BRADLEY & ABB).
- Troubleshooting & maintenance for Soft starters (ABB).
- Installation, start-up and Maintenance of packing machines (1 kg, 10 kg, 50 kg and 1 ton).
- Installation, start-up and Maintenance of electrical equipment in packing production lines such as silos, rotary valves, conveyors, belts, screws conveyors and sewing machines.
- Installation, start-up and Maintenance of electrical equipment of sugar refinery production lines such as conveyors, screws conveyors agitators' vibrators rotary valves, vacuum pans, and air fan condenser.

Dates : From May 2007 till May 2008
Employer : East Delta Electricity Production Co.
Job title : 3rd Operation Engineer
Job Description :

- Energizing & Isolating (HV, GIS Switchgears 500KV, 220KV) (Manufacture Alstom).
- Energizing & Isolating (MV & LV Switchgears 6.3KV) (manufacture GE).
- Energizing & Isolating (LV 380V, 220V, AC & DC and 110 VDC).

Dates : From Aug. 2006 till May 2007
Employer : Sorenson Gross
Job title : Site Engineer
Job Description :

- Installation of low voltage electrical equipment such as (transformer – DPs – lighting, ...etc.).
- M.V & LV cable laying.
- Installation of internal & external lighting systems.

Projects:

- Oil & Gas Projects:
 - New Cocker Complex SOPC:
 - ❖ Review consultant electrical engineering transmittals.
 - ❖ Review and approve CRSs and TQMs issued by electrical team.
 - ❖ Review 3D Models for utility units.
 - ❖ Attendance of SWGR FAT & Punch clearance.
 - Boilers 1 Ton substation (Engineered by ENPPI):
 Testing (SAT), inspection, pre-commissioning, commissioning and start-up for the following equipment:
 - ❖ SF6 M.V. Switchgear "Unigear type" 6.6KV Manufactured by ABB.
 - ❖ Two Power Center "MNS type" Manufactured by ABB.
 - ❖ Two M.C.C "MNS type" Manufactured by ABB.

- SOPC platform submarine cable with length 4300 meter (engineered by SOPC, contractor EMC): Testing (SAT), inspection, pre-commissioning, and energizing for 4300 meter 6.6KV 3*95mm² submarine cable.
- SEA WATER pump house: Testing (FAT) & (SAT), inspection, pre-commissioning, commissioning and start-up for: SF6 M.V SWGR (10 MVA LOADS - 21 BAYS 6.6KV - 3 OUT OF 5 scheme) (UNIGEAR, ABB).
- Sea water intake for three center-fugal pumps (engineered by PETROMAINT):
 - ❖ Specify electrical scope of work.
 - ❖ Review the consultant design of:
 - Power transformers.
 - L.V SWGR.
 - Lighting and distribution system.
 - Medium and low voltage cable.
- New Oil separator unit:

Managed the project including the design, shop drawing approval, installation, testing (FAT & SAT), inspection, pre-commissioning, commissioning and start-up for the following equipment:

 - ❖ SF6 M.V. Switchgear "UNIGEAR type" 6.6KV Manufactured by ABB.
 - ❖ Two Power Center "MNS" Manufactured by ABB.
- Air compressor substation (6 MVA LOADS):

Managed the project including the design, shop drawing approval, installation, testing (FAT & SAT), inspection, pre-commissioning, commissioning and start-up for the following equipment:

 - ❖ SF6 M.V. Switchgear "MCset type" 6.6KV, 20 bays, Manufactured by Schneider.
 - ❖ Power Center + MCC "Sivacon S8 type" Manufactured by EMAS partner of Siemens.
- Water utilities new substation (4 MVA LOADS):

Managed the project including the design, shop drawing approval, installation, testing (FAT & SAT), inspection, pre-commissioning, commissioning and start-up for the following equipment:

 - ❖ SF6 M.V. Switchgear "MCset type" 6.6KV, 19 bays, Manufactured by Schneider.
- Oil tankers substation (5 MVA LOADS):

Managed the project including the design, shop drawing approval, installation, testing (FAT & SAT), inspection, pre-commissioning, commissioning and start-up for the following equipment:

 - ❖ SF6 M.V. Switchgear "MCset type" 6.6KV, 19 bays, Manufactured by Schneider.
- Substations Testing and Commissioning Projects at Saudi Arabia:
 - AL KHALIDYIAH S/S (110/13.8KV) (Al Madinah Al Monawrah):
 - ❖ MV SWG 13.8KV (Manufacture AL FANAR):
 - MV 13.8KV SWG scheme check and function test.
 - MV 13.8KV SWG high voltage test.
 - MV 13.8KV SWG panel main bus bar and C.B contact resistance test.
 - MV 13.8KV SWG C.B test (timing, contact resistance & insulation resistance).
 - OC / EF RELAY acceptance test & Synchronization check

- relays final setting test (ZIV relay).
- ❖ Transformer (Manufacture Siemens):
 - BCT secondary loop test.
- ❖ 110KV GIS (Manufacture HYOSOUNG):
 - VT TESTS.
 - SF6 pressure Gage calibration test.
- ❖ Other:
 - S/S main (ACDP & DCDP) scheme check and function test.
- AL MUHAMMADIA S/S (110/13.8KV) (Jeddah):
 - ❖ MV SWG 13.8KV (Manufacture KONCARUE):
 - Power meter test (SCHNIEDER).
 - OC/EF relay acceptance & final setting test (ABB REF 615).
 - MV 13.8KV SWG C.B test (timing, contact resistance & insulation resistance).
- AL MANAR S/S (110/13.8KV) (Jeddah):
 - ❖ OC/EF relay acceptance test (GE MULTILIN 650F) (Qty. 51 relays).
 - ❖ CT secondary Loop injection.
- HERAA S/S (110/13.8KV) (Jeddah):
 - ❖ 110KV GIS scheme check.
- SARI S/S (110/13.8KV) (Jeddah):
 - ❖ OC/EF relay final setting test (ABB REF 615) (Qty. 49 relays).
 - ❖ Synchronization check relay final setting test (ABB REC 670).
- AL NASEEM S/S (110/13.8KV) (Makkah):
 - ❖ MV 13.8KV SWGR C.B timing test.
 - ❖ (Capacitor protection & ABTS) panels scheme check.
- AL HARRAM ROAD S/S (110/13.8KV) (Makkah):
 - ❖ OC/EF relay acceptance test (ABB REF 615) (Qty. 53 relays).
 - ❖ Under frequency relay acceptance test (MICOM).