

Holds a B. Sc. in Electrical Engineering and has over 8 years hands-on experience working in maintenance at oil field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 30/12/1984
Gender : Male
Marital Status : Married
Residence : Dakhalia

EDUCATION

: B. Sc. in Electrical Engineering, 2007

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD
: ETAP (Electrical Transient Analysis program) and GMS program

TRAINING COURSES AND CERTIFICATIONS

: MV switchgear maintenance, design and troubleshooting.
: Underground cables fault locator.
: Thermal scan for overhead transmission lines.
: Electrical installation in hazard area and CompEx.
: Power transformer maintenance and protection.
: Computer applications in electric power systems.
: Cables fault detection.
: Electrical predictive maintenance technique.
: Electric power systems operation.
: Overhead transmission lines maintenance and troubleshooting.
: Overhead transmission lines Hot washing.
: Siemens PLC advanced course.
: High voltage circuit breakers.

- : Advanced protection relays by OGS.
- : Control logic fundamentals by Elsewedy automation.
- : Electrical transformers (maintenance and troubleshooting).
- : Induction motors drives.
- : HPS (horizontal pump system).
- : Variable speed drives uniconn by Schlumberger Co.
- : VSD instruct type by Schlumberger Co.
- : ESP by Schlumberger Co.
- : TRIOL VSD for ESP PMM motor type (Operation and troubleshooting) by Borets Co.
- : Unico VSD by Borets Co.
- : Earthing system and lightening protection.
- : Electric motors protection, testing and maintenance.
- : Electric Protection (motors, Generators, cables...).
- : Advanced electric motor protection relays and systems.
- : Instrument and power transformers.
- : Safety driving.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2009 till now
- Employer** : Qarun Petroleum Co.
- Job title** : Electrical Maintenance Engineer
- Job Description** :
 - Oil Central processing facilities at Qarun base field, carried out the following:
 - Response for all electrical new plant changes CR, MOC and projects.
 - Prepare FEED, feasibility, engineering study and prepare electrical scope of work SOW for all new projects, change requests, site modification and MOC.
 - Technical review, comment and amend of all electrical EPC deliverables by contractors and Monitoring the electrical design to ensure electrical engineering systems design is in Compliance with recognized standards and basic engineering design.
 - Prepare work schedule and execution plan related to each project or MOC and support the Projects team in the evaluation of project progress, manpower, HSSE and quality control.
 - Evaluation of implemented activities for any technical or HSSE deviations and guide the Contractor team to align with the projects specification.
 - Provide all the required support to solve any technical issue during the construction, and make sure that this solution align with projects specification and standard.
 - Prepare and supervise the execution of the pre-commissioning, commissioning and start-up of electrical loads related to all projects / MOC.
 - Update the ETAP modeling of the electrical system and execute all related calculations such as load flow, short circuit, protection co -

ordination.

- Prepare electrical maintenance work maintenance instructions (MWI).
- Prepare and supervise the implementation of the electrical predictive maintenance Pd plan.
- Participate in failure investigation of all electrical equipment and prepare root cause Failure report RCFA for electrical equipment failures.
- Participate in hazard identifications and operability studies HAZID and HAZOP.
- HPS (horizontal pump system) Reda type (5000 and 15000 BFPD) Installation, commissioning and start-up, troubleshooting.
- Wood group HPS pumps 5000 BFPD (installation, commissioning and start-up, trouble shooting).
- Induction motors (installation, commissioning and start-up, trouble shooting, PM).
- ABB switchgear and Over Head Distribution system at Karama field as following:
 - ABB Medium Voltage switchgear SF6, vacuum Contactor, 3.3KV (installation, commissioning and start-up, trouble shooting).
 - ABB L.V air 400 V C.B, REM543 relay switchgear.
 - ABB transformers and Motors protection relays REF542+, REM610, REM543 (trouble shooting and operation).
 - ABB, General electric and Siemens electric motors (commissioning and start-up, trouble shooting).
 - Earthing, Lighting and Cathodic protection systems installation and troubleshooting.
 - Distribution transformers (protection, tests, cooling system, installation, commissioning and start-up, trouble shooting).
 - Low and Medium Voltage cables (installation, commissioning and start-up, trouble shooting, splice).
 - Medium Voltage overhead network 11KV and 22KV (installation, commissioning and start-up, trouble shooting, PM).
 - Electrical transient analysis for M.V and L.V networks by ETAP program.
 - Variable speed drives of induction and PMM motors (installation, commissioning and start-up, trouble shooting, PM).
 - Low voltage distribution panels (installation, commissioning and start-up, troubleshooting).
 - Classic control and PLC.
- ESP and sucker rod wells:
 - Commissioning, start-up and troubleshooting for Borets (W/F) Fixed speed switch Board.
 - Deal with commander III controller.
 - Commissioning, start-up and troubleshooting for BAKER HUGUS Fixed speed switch Board.
 - Deal with BAKER HUGHUS switch board controller VMC-100 & 200.
 - Commissioning, start-up and troubleshooting for Schlumberger Fixed speed switch Board K095 and uniconn.
 - Deal with Schlumberger switch board controllers K095, uniconn.
 - Commissioning, start-up and troubleshooting for Borets VSD (TRIOL).

- Deal with UMKA-03 Controller of TROIL VSD.
- Commissioning, start-up and troubleshooting for Schlumberger VSD.
- Deal with Schlumberger VSD controllers uniconn and Instruct.
- Commissioning, start-up and troubleshooting for Centerlift VSD (BAKER HUGHUS).
- Deal with BAKER HUGHUS VSD Controller GCS.
- ESP wells troubleshooting (stuck wells, No recovery, low recovery, Over load, under Load, etc.).
- Witness on ESP pull and install (Reda, Borets and BAKER HUGHUS types).
- Survey and collecting data for ESP wells.
- Commissioning, start-up and troubleshooting of ESP transformers (south west type and others).
- ESP cables splice.
- ESP cables selection, installation, testing and troubleshooting.
- Diesel engine generators.

Achievements:

- Carried out studies, Work procedures, Install electrical system, commissioning and start-up for connecting power to new oil field (5MW) through ESP underground cables, transformers, panels existing in our company stock instead of another's will be bought and saved 444,000 \$ / year.
- Solved problems of overheating transformers (5 MVA) by install cooling system and increased the transformer capacity to 6.3 MVA then saved 5,000 \$.
- Solved the overloading problem of one main transformer by Connected it with another (parallel operation) and saved 100,000 \$ per year.
- Decreased the faults catching times at M.V OHTL by Installed fault indicators catch times and saved 500,000 \$ per year.
- Solved the under voltage problem at distribution network by carried out studies by ETAP and adjusted tap changer of main transformer and redistributed the loads.
- Decreased shutdown times for High producer wells by installed RTU system at each well to indicate the wells status and send SMS to mobile and saved 200,000 \$ per year.
- Carried out operation sequence for HPS system (Cooler then booster pump then main pump) by re-configure the control circuit.