102352-ELE-2PTyz-E-2010
Electrical Engineer

Holds a B. Sc. in Electrical Engineering and has about 13 years experience working in protection, testing and commissioning.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	08/03/1988
Gender	:	Male
Marital Status	:	Married
Residence	:	Damanhour

EDUCATION

: B. Sc. in Electrical Engineering, Tanta University, 2010

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Network Training Center, Cairo: Protection Fundamentals, Instrument Transformer & Power Measurement, Distance Protection, Differential Protection, Bus Bar Protection, Transformer Protection, Digital Protective Relays Philosophy.

: Central Sector for Protection, Cairo: Siemens relays software, Bus Bar Protection, SEL relays.

: Ministry of Electricity (Training Sector), Cairo: Electrical Harmonics Analysis.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2024 till Oct. 2024

Projects : Yemen, testing and start-up three 132/33KV new substations (120MW Aden Solar Station)

Job Description :

- Review protection and control schematic diagram for 132 and 33KV level.
- Testing Control and interlock circuit, CT-VT circuit, Trip and alarm circuit.

- Review the setting values and configuration for the protection relays (SIEMENS * SEL) for 132 and 33KV level.
- Testing and Commissioning protection relays:
  - For O.H.T.L and U.G.C differential and distance protection (SIEMENS 7SL86 – SEL 411L).
  - For power transformer protection SEL787 – SEL751, and power transformer stability test for transformer differential function and restricted earth fault function.
  - High impedance Relay SEL 751 for 33KV B.B. PROTECTION AND STABILITY TEST.

Dates : From Jan. 2024 till May 2024

Projects : Algeria, testing and start-up three 60/10KV new substations (fatma nsomer (Aldar albydaa2), Braqi)

Job Description :

- Review protection and control schematic diagram for 60 and 10KV level.
- Testing Control and interlock circuit, CT-VT circuit, Trip and alarm circuit.
- Review the setting values and configuration for the protection relays (MICOM) for 60 and 10KV level.
- Testing and Commissioning protection relays:
  - For O.H.T.L and U.G.C differential and distance protection (MICOM P543).
  - For power transformer protection MICOM P642, MICOM P122 and power transformer stability test for transformer differential function and restricted earth fault function.

Dates : From Jul. 2023 till Nov. 2023

Projects : Yemen – Testing and start-up three 132/33KV new substations (Hiswa, Mansoura, Khor Makser)

Job Description :

- Review protection and control schematic diagram for 132 and 33KV level.
- Testing Control and interlock circuit, CT-VT circuit, Trip and alarm circuit.
- Review the setting values and configuration for the protection relays (ABB * SEL) for 132 and 33KV level.
- Testing and Commissioning protection relays:
  - For O.H.T.L and U.G.C differential and distance protection (RED 670 – RED 650 – SEL 411L).
  - For power transformer protection RET 670 – RET 620 – RET 615 and power transformer stability test for transformer differential function and restricted earth fault function.
  - Low impedance Relay REB 500 for 132KV B.B. PROTECTION AND STABILITY TEST.
  - High impedance Relay REB 611 for 33KV B.B. PROTECTION AND STABILITY TEST.

Dates : From 2021 till 2022

Employer : EL-SEWEDY and THE ARAB CONTRACTORS

Project : Julius Nyerere Hydropower Project, Tanzania – 400KV S/S

Job Description :

- Commissioning of EHV equipment like CT, VT, CB, DS, ES.
- Review protection and control schematic diagram.
- Review the setting values and configuration for the protection relays

(ABB).
- Testing and Commissioning protection relays (RED 670 FOR LINE DIFFERENTIAL AND DISTANCE PROTECTION – RET 670 DIFFERENTIAL PROTECTION FOR SHUNT REACTOR, STABILITY TEST AND POWER TRANSFORMER, STABILITY TEST - REB 670 FOR B.B. PROTECTION AND STABILITY TEST).

Dates : From 2020 till 2021

Project : Distributed Control Centers – Schneider Project

Job Description :
- Installation P3U30 SCHNEIDER RELAY and modification the signals and schematic of the panels for SCADA SYSTEM.
- Review the setting values and configuration for the protection relays P3U30.
- Testing and commissioning the Relay.

Dates : From 2011 till 2020

Employer : Egyptian Electricity Transmission Company – Protection Sector

Job Description :
- Review secondary Substation design (Chargers, ACDB, DCDB, CT, VT, DS, CB, control & interlock, protection) Circuits for ELNATROON (500KV), ABO-ELMTAMEER (500KV), ELSNAIEAA 8 (220KV).
- Testing and commissioning protection relays in transmission and distribution systems (up to 220KV).
- Review protection and control schematic diagram.
- Commissioning of HV equipment like CT, VT, CB, DS, ES.
- Perform setting, installation, fault analysis for various protection relays (ABB (CAP, PCM), SIEMENS (SIPROTEC series 5, 4) and AREVA (Micom series) protection relays).
- Handle with trouble shooting in the protection and control schemes.
- Training and support for new engineers.

Periodic tests of protective relays & Setting up New Apparatus & New Distributors including all commissioning Tests:

- Alex Zone (from 2011 till 2015):
  - Borg El Arab 220/66/22, 11KV.
  - Soumed 220/11KV.
  - Free Zone 220/66/11KV.
  - El Omid 220/66/22KV.
  - Free Zone I 66/11KV.
  - Amria Cement 66/6.3KV.
  - Borg Industrial 66/20, 11KV.
  - New Amria 66/11KV.
  - El Agamy 66/11KV.
  - South Karmouz 66/11KV.
  - Banger El Sukar 66/11KV.
  - El Werdian 66/11KV.
  - El Hamra 66/11KV.
  - El Alamain 66/11KV.
- West Delta Zone (from 2015 till now):
  - Review secondary Substation design (Chargers, ACDB, DCDB, CT, VT, DS, CB, control & interlock, protection) Circuits for

ELNATROON (500KV), ABO-ELMTAMEER (500KV), ELSNAIEAA 8 (220KV).
- West Damanhour 66/11KV.
- Aburesh 66/11KV.
- New Damanhour 66/11KV.
- Damanhour Power Station (220KV, 66KV).
- Zarkoon 66/11KV.
- New Mahmoudia 66/11KV.
- Halk Elgamal 66/11KV.
- El Boselly 66/11KV.
- Rasheed 66/11KV.
- Rahmanya 66/11KV.
- Mahmoudia Power Station (220KV, 66KV).
- New Mahmoudia Power Station (220KV, 66KV).

Projects:

- EL OMID S/S – Installation, testing and commissioning for new transformer 220/66KV:
  - Laying cables from switchgear to Marshaling kiosk, control panel and protection panel.
  - Installation testing and commissioning for protection and control panels.
  - Testing interlock scheme.
  - Testing and commissioning transformer electrical and mechanical protections.
  - Applying and testing final setting for protection relays.
  - Energize transformer and connecting with network.
- SOUMED S/S - Upgrading the switchgear apparatus and panels for 2 transformers 220/11KV:
  - Upgrading C.B, Isolators, CT, for 220KV side from oil and air-blast to SF6.
  - Upgrading for 2 OHTL C.B, Isolators, CT and VT for 220KV from oil and air-blast to SF6.
  - Upgrading for coupler C.B, Isolators, CT for 220KV from oil and air-blast to SF6.
  - Testing interlock scheme.
- SOUTH KARMOUZ S/S - Upgrading, testing and commissioning for Transformer 66/11KV from 25 MVA to 40 MVA:
  - Change connection for CT ratio for HV side and LV side.
  - Wiring check for all cables from switchyard to control and protection panels.
  - Testing interlock scheme.
  - Applying and testing new setting for protection relays.
  - Checking alarm and trip signals from field to control and SCADA.
  - Energize transformer and connecting with network.
  - Applying modification in drawing.
- FREE ZONE S/S - Installation testing and commissioning for new 11KV Section (ABB):
  - Connecting internal wiring for 1 incomer, 6 outgoing, 1 coupler panels.
  - Connecting ring wiring for AC, DC, VT and alarm signals.
  - Testing protection relays for all panels.

- Testing interlock scheme.
- Applying and testing final setting with CB trip.

- Mahmoudia Power Station (220KV) – Installation, testing and commissioning for new Transformer 220/66KV:
  - Laying cables from switchgear to Marshaling kiosk, control panel and protection panel.
  - Installation testing and commissioning for protection and control panels.
  - Testing interlock scheme.
  - Testing and commissioning transformer electrical and mechanical protections.
  - Applying and testing final setting for protection relays.
  - Energize transformer and connecting with network.
- RASHEED S/S - Installation testing and commissioning for new 11KV Section (ABB):
  - Connecting internal wiring for 1 incomer, 6 outgoing, 1 coupler panels.
  - Connecting ring wiring for AC, DC, VT and alarm signals.
  - Testing protection relays for all panels.
  - Testing interlock scheme.
  - Applying and testing final setting with CB trip.
- NEW DAMANHOUR S/S:
  - Installation, testing and commissioning for new 11KV Section (ABB):
    - ❖ Connecting internal wiring for 1 incomer, 6 outgoing, 1 coupler panels.
    - ❖ Connecting ring wiring for AC, DC, VT and alarm signals.
    - ❖ Testing protection relays for all panels.
    - ❖ Testing interlock scheme.
    - ❖ Applying and testing final setting with CB trip.
  - Installation, testing and commissioning alarm panel:
    - ❖ Installing panel in the tray.
    - ❖ Internal plate cutting with specified dimensions.
    - ❖ Installing (10) alarm modules.
    - ❖ Laying cables from all panels 66KV (6 OHTL, 4 power transformers).
    - ❖ Testing alarm signals from field to SCADA through alarm panel.