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Testing & Commissioning in Charge & Technical Support

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 19 years hands-on experience working in protection, testing and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/10/1977
Gender : Male
Marital Status : Married
Residence : Mansoura

EDUCATION

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

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

- : Training course in Projects Management Professional PMP (35 Hours) in Jubail - KSA (Aug. 2015).
- : Documentation Review for SAS Substation Automation System SICAM PAS Al-Khobar - KSA (Sep./Oct. 2012).
- : SEP-600 Protection and Control IED Manager PCM600 Version 2.3 Training in ABB Substation Automation Vasteras, Sweden.
- : Training Course in ABB Substation Automation Vasteras, Sweden (Dec. 2010), SEP-602 A Line Distance Protection Relay REL67.
- : Training for the Main Relays SEL and SIEMENS Relays.
- : Training Course in instruments transformers & power measurements current & voltage transformers in Cairo.
- : Environmental Pollution in Abu Sultan Power Plant (Apr. 2004).
- : Training course in the field of steam power generation plants (practical theoretical) in Abu Sultan Steam Power Plant (4x150MW) (from Mar. till May 2002).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2017 till now
Employer : Sahara Group for trading and engineering
Job title : Testing & Commissioning in Charge & Technical Support
Job Description :

- Trainer for OMICRON test equipments.
- West Assiut - 1500MW (2x250MW Combined Cycle) - Assiut City (Egypt) - GE:
 - Testing and commissioning for Generator Protection Multifunction Relay GE - G60 Relay.
 - Testing and commissioning for Excitation Transformer Protection Relay GE - T60 Relay.
 - NGR, CT, VT, Power Meters Testing and commissioning.
- Banban-3 500/220/22KV Substation (Aswan City - Egypt) - Lead Engineer for:
 - 500/220/22KV Power Transformer Testing and commissioning.
 - 500KV Circuit Breaker Testing.
 - 500KV CT Testing.
- ASORC (Assiut Oil Refining Company 220/22KV Substation (Assiut City - Egypt): Testing and commissioning For Line Differential Protection and Distance Protection GE - L90 and ALSTOM P543.

Dates : From 2011 till 2017
Employer : AL-OSAIS Contracting Company, KSA
Job Description :

- Lead Testing & Commissioning Engineer:
 - 380/110/33KV SS – Jeddah - Reinforcement for 110/33KV Transformer and 33KV Switchgear:
 - ❖ Following the Testing activities done.
 - ❖ Prepare Overall Schedule activities.
 - ❖ Prepare Test Formats for SEC approval.
 - ❖ Prepare three weeks schedule for client.
 - ❖ Prepare test equipments, Calibration Certificates.
 - ❖ Confirm Protection schemes and review the scheme to fulfill SEC Specifications.
 - ❖ Clear the Punch List (Snag List) by SEC.
 - ❖ 110/33KV Transformer Stability and Sensitivity Test Included REF Stability and sensitivity Test.
 - ❖ Testing and commissioning for Main and Backup Relays.
 - ❖ Automatic Voltage Control Testing and commissioning.
 - ❖ ABTS (Automatic Bus Transfer Switching).
 - ❖ 110 & 33KV Bus Bar Stability Test.
 - 115/13.8KV DCP Dhahran Cooling Plant SS – Dhahran: Testing and commissioning for OHTL Distance Relays for 2 Lines 115KV DCP-NPOC Line A & 115KV DCP-NPOC Line B.
 - 132/13.8KV 8808 SS Qassim (Muznib):
 - ❖ Replacement for Distance relay and Cable Tail Protection.
 - ❖ Testing and commissioning for Distance relay in 132KV OHTL Muznib – Uniza.
 - ❖ Testing and commissioning for Cable Tail Protection included Stability and Sensitivity Test.

- ❖ 132KV Outdoor (FSCT) Commissioning.
- 115/13.8KV Dammam Industrial D.I.E 4A SS Dammam:
 - ❖ Testing and commissioning for 13.8KV Overcurrent relays (included Bay Control Unit).
 - ❖ Testing and commissioning for Line Differential Relays (included Distance, Directional Overcurrent & Directional Earth Fault for 115KV D.I.E 4A – Half Moon BSP Line A & 115KV D.I.E 4A – Half Moon BSP Line B.
 - ❖ Testing and commissioning for Transformer Protection Relays: Differential Relay, Directional Overcurrent, Directional Earth Fault and Restricted Earth Fault Relay.
- 132/13.8KV 8522 Substation – Muzahmia - Riyadh:
 - ❖ Testing and commissioning Lead Engineer for All Activities.
 - ❖ Testing for Distance / Directional and Line Differential Relay SEL-411L..
 - ❖ Testing for Distance / Directional and Line Differential Relay SIEMENS 7SD522 Relay.
 - ❖ Testing for Low Impedence Bus Bar Differential Relay ALSTOM MICOM P741/P743 Relay.
 - ❖ 132KV Bus Bar Stability and Sensitivity Test.
 - ❖ Preparing and follow up for 3 weeks schedule with Client and Project Team.
- Protection Design Engineer:
 - 115/13.8KV ARAMCO Protection Upgrade Project - Dhahran City:
 - ❖ Preparing the Base Design, Detail Design and IFC Drawing for NPOC, NCDC, Ghornata and DCP Substations.
 - ❖ This Project is a modification for Cable Protection Scheme, CBF Scheme, Changing for Main Relays.
 - ❖ Preparing the Cable Termination Schedule for Protection Scheme.
 - 132/13.8KV 8077 Substation – Quaiyyah - Riyadh:
 - ❖ Testing for Distance / Directional and Line Differential Relay SEL-411L.
 - ❖ Testing for Distance / Directional and Line Differential Relay SIEMENS 7SD523 Relay.
 - ❖ Protection Modification for 132KV OHTL+UGC 8077-8522/8076 T-Line.
 - ❖ End To End Test for 132KV OHTL + UGC T-Line 8077-8522/8076.
 - 115/13.8KV Al-Khudariyah & Az-zuhoor Project - Dammam City:
 - ❖ Preparing Base Design Package for Protection Drawings.
 - ❖ Preparing Base Design Package for Protection Drawings.
 - ❖ Replying to NG-SA Comments until IFC Drawings.
- Senior Testing & Commissioning Lead Engineer:
 - 115/13.8KV Az-zuhoor Project - Dammam City:
 - ❖ Lead all testing and commissioning activities.
 - ❖ Running Project.

Dates : From 2009 till 2011
Employer : SIEMENS Company (Dar Al-Riyadh Consultants), KSA
Job title : Lead Testing & Commissioning Engineer

- Job Description** : • 132/13.8KV 8106 SS – Riyadh: Capacitor Bank Units Testing and commissioning included Control and Protection.
- 380/132/13.8KV 9019 SS – Riyadh:
 - Following the Testing activities done by subcontractor.
 - Prepare Overall Schedule activities.
 - Prepare three weeks schedule for client.
 - Prepare test equipments, Calibration Certificates.
 - Confirm Protection schemes and review the scheme to fulfill SEC Specifications.
 - Clear the Punch List (Snag List) by SEC.
 - 380/132/13.8KV 9023 SS – Riyadh:
 - Following the Testing activities done by subcontractor.
 - Prepare Overall Schedule activities.
 - Prepare three weeks schedule for client.
 - Prepare test equipments, Calibration Certificates.
 - Confirm Protection schemes and review the scheme to fulfill SEC Specifications.
 - Clear the Punch List (Snag List) by SEC.
 - 380/132/13.8KV Transformer Stability and Sensitivity Test included REF Stability and sensitivity Test.

Dates : From 2007 till 2009

Employer : Al-Babtain Contracting Company, KSA

Job title : Testing & Commissioning Engineer

- Job Description** : • 132/13.8KV 8051SS – Riyadh:
- 132KV Ring CT Testing.
 - 13.8KV Outgoing Feeders Function Test.
 - Cable Tail Protection Relay Test.
 - SCADA Test.
- 132/13.8KV 8125 SS Riyadh:
- 13.8KV Activities:
 - ❖ Auxiliary Relays, MCB, Ammeters and voltmeters.
 - ❖ Overcurrent Relays for Feeders.
 - ❖ Underfrequency & Undervoltage relays Test.
 - ❖ CT, VT and Circuit Breakers.
 - ❖ Stuck Breaker Protection.
 - ❖ ACCS (Automatic Changeover Control System).
 - ❖ Overall activities: CT Loop, Primary Injection, VT Loop, Bus Bar Stability and Sensitivity Test.
 - ❖ 13.8KV O/G Function Test.
 - ❖ High Voltage Test.
 - 132KV Activities:
 - ❖ Main Relays Test: Line Differential Relay, Transformer Differential Relays, Restricted Earth Fault Relay.
 - ❖ Backup relays test: Overcurrent, Earth Fault.
 - ❖ Control relays: Synchrocheck relay, Automatic Voltage Control.
 - ❖ 132/13.8KV Transformer Stability and sensitivity Test (included REF Stability and sensitivity Test).
 - ❖ GIS Activities: CB, Disconnectors, CT, VT.

- ❖ GIS Function Test.
- ❖ Overall activities: CT Loop, Primary Injection, VT Loop, Bus Bar Stability and Sensitivity Test.
- 132/13.8KV 8143 SS Riyadh: Almost Same activities in Previous Substation.
- 132/13.8KV 8124 SS Riyadh: Same activities in addition to test Distance relay for 132KV OHTL 8124–8127 SS.

Dates : From 2005 till 2007
Employer : Egypt Electricity Transmission Company
Job title : Protection Engineer
Job Description :

- Testing for Electrical Protection relays, Distance relays test in: Quesna 220KV SS, Al-Shohada 66KV SS Monof 220KV SS.
- Replacement for 24 electromechanic distance relays by 24 Digital relays in the South Delta Area.
- Calibration for electrical meters:
 - Power Services Test.
 - Perform routine power transformers testing: Tan δ , DC Resistance, Ratio Test for: Sinaea 66KV SS, Al-Asher 220KV SS, Hurghada 66KV SS, Suez (2) 220KV SS.
 - Circuit Breaker, Disconnectors, Earthing, Current Transformers and Voltage Transformers Test for same Substations.
 - Power Transformers, CT, VT and CB Test for Egyptian Oil Pipes Company (SOMID) Suez Area.
- Power Transformers, CT, VT and CB Test for Al-Masrya Cement Factory and Ezz Steel Factory.

Dates : From 2003 till 2005
Employer : EDEPC
Project : Abu Sultan Steam Power Plant (4x150MW)
Job title : Maintenance Engineer
Job Description :

- Perform routine maintenance for Electrical Motors and pumps.
- Testing and Calibration for Electrical Energy Meters.
- Testing for Protection Relays.

Dates : From 2002 till 2003
Employer : EDEPC
Project : Abu Sultan Steam Power Plant (4x150MW)
Job title : Operation Engineer
Job Description :

- Start and shutdown for steam unit and following the routine and urgent maintenance for this unit.
- Monitoring and control for steam unit using DCS System.

Field of experience :

- Distance relays: electromechanical relays L8A, RD110, LH.
- Digital relays: (Micom P441 P442, P443, SEL 321, 311, ABB REL 670, SIEMENS 7SA522, ALSTOM P545.
- Generator Protection Relay GE-G60.
- Line Differential Relay Micom P543, ALSTOM MICOM P546, ABB RED

670, SIEMENS 7SD522.

- Transformer Differential relays: (ABB RET 541, SIEMENS (7UT613), VATECH DOUBIAS - M200)), GE (T-60 Relay).
- Overcurrent relays: (SIEMENS 7SJ600A, 7SJ600B, SEL IFX4N, ABB (REJ 525), SIEMENS 7SJ642, 7SJ645, 7SJ621(Directional) VATECH (ARGUS 1, Micom P120 SIEMENS 7SJ 641, SEL-451.
- Auxilary relays & MCB testing.
- Under frequency Relay SIEMENS 7RW6000, ABB (SPAF 341C).
- Automatic Voltage Regulating (Control) AVC MR VC100BU01, SPAU 340C. MR TAPCON 230, MR TAPCON 260.
- Fault Recorder HATHAWAY IDM-T3, IDM-T5.
- Synchrocheck Relay ARGUS-7, RASC.
- Under/Overvoltage Relay ARGUS-8, ABB (REU 523).
- Circuit Breaker Failure CBF Relay DAB53, ABB (RAICA) Bus Bar.
- Differential Relay DAD, ABB (RADHD).
- Restricted Earth Fault Vatech (Reyrolle 5B3, ABB (RADHA).
- Current Transformer supervision Relay RAEDK3.
- Auto Reclosure Relay: ALSTOM P142.
- ABTS Relay REC 670.
- Power transformers: Tan s - winding resistance - turns ratio - vector group checking - dissolved gasses analysis.
- Current transformers Tan s - secondary winding resistance - saturation (magnetization curve drawing - polarity check - Megger, Ratio test.
- Voltage transformers: Megger test - Accuracy test.
- Circuit Breakers: Contact resistance - timing (closing & tripping).
- Cables High voltage - patial discharge test.
- Ground Test - Ground resistance test.
- Good dealing with universal equipments: Omicron CPC-100, Omicron CMC-156, Omicron CMC 256, OMICRON CMC-356, FREJA 300, SVERKER 760, MANTA, ISA ART3, DOBLE, BIDDLE, Morgancheffer p200 m, Programma, Kokus, MTE, Hathaway.
- Relays Software using: DIGSI 4.83 - ABB PCM 600, CAP 316, CAP 540, CAP 501, CAP 505, ATECH, areva, micom, MICOM STUDIO, Enervista Software, replyplus, (fault recorder HATHAWAY).
- Preparing Test Formats for all testing and commissioning activities according to Client Specifications.
- Prepare overall testing activities and 3 weeks Schedule.