

Holds a B. Sc. in Electronics Engineering and has over 17 years experience working as Consultant Engineer, I&C Commissioning and Start-up Engineer (simple & combined cycle), I&C Maintenance Team Leader, Installation Supervisor (DCS & GT & ST & HRSG & PLC Control systems).

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : New Damietta

EDUCATION

: B. Sc. in Electronics Engineering, Mansoura University

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Motor Operated Valve provided by ATEC.
- : Fire Fighting and Detection System (certificate No. 1733), SANCO.
- : Distributed Control system maintenance Foxboro EVO V6.0 by Schneider Electric in Italy.
- : Bentley Nevada System in Steam turbine unit.
- : Digital Power Line Carrier (PLC).
- : Operation gas turbine provided by General Electric.
- : Operation & Maintenance Fire Fighting System FMZ4100, Manufactured by: MINIMAX.
- : DS Agile- Operation and maintenance training provided by ALSTOM.
- : Fire alarm system provided by HYOSUNG.
- : EX2100e Excitation LCI GPP Operation and Maintenance, provided by General Electric.
- : On-Shore training of Hydrogen generator fundamentals of operation and maintenance for Hydrogen H-Series Hydrogen generation system provided by PROTON.
- : Gas insulated switchgear (GIS) provided by HYUNDAI.

- : Protection Automation Control Integrated Solution (PACIS).
- : SPEEDTRONIC TM Mark IVe Gas Turbine Control Maintenance provided by General Electric.
- : DCS system Metso DNA operator course provided by Metso.
- : DCS system Metso DNA Engineering & Maintenance course.
- : PLC Water treatment.
- : Pump & compressor course by KN.
- : Operation training for water & waste water treatment systems & industrial and sewage treatment systems.
- : The basics of control valves in power plants from ATEC.
- : Maintenance training for water & waste water treatment systems & industrial and sewage treatment systems.
- : The Financial Affairs for power plants.
- : EX2100 Excitation System Maintenance Training (Jun. 2012) by GE.
- : Gas Turbine Generator Maintenance (Jun. 2012).
- : Operating, Monitoring & maintenance GIS 220KV switchgear Isolated with SF6 gas (2 weeks).
- : Operating, Monitoring & maintenance 135MW Siemens gas turbine V94.2 (2 weeks).
- : Operating, Monitoring & maintenance plant Auxiliary (2 weeks).
- : Operating, Monitoring & maintenance Boilers and steam turbine (4 weeks).
- : Operating, Monitoring & maintenance steam turbine 145MW Alstom.
- : To do the work order on Amplessma system (1 week).
- : Training course (S-SH-PGP-OP) Power Generation Portal Operation in Damietta Power Station - Egypt (5 days) from ABB (Genova – Italy).
- : Recognition certificate from: Fikret Gulen (GE Site Manager).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2015 till now
- Project** : West Damietta CCPP II 1x250MW steam turbine GE (D202) Mark VIe controlling, fast track project
- Job title(s)** : Consultant Engineer – I&C Maintenance Team Leader
- Job Description** : Representative the owner (EDEPC) East Delta Electricity Production Company to follow up all construction activities, inspection, issue punch item, clear punch item, cold loop check, hot loop check, function test, all ST's start-up testing, calibration of all field instruments, review all the documents, drawings & packages, carry out physical walk downs to make sure that the systems ready to be commissioned according to contract requirements, control specifications and approved drawings this is beside all warranty work after installation and I have attended TOAC meeting in between main contractor (Orascom Construction, General Electric) and the owner.
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- Dates** : From Jan. 2015 till Jun. 2015
- Project** : West Damietta Simple Cycle II 4x125MW gas turbine GE (PG9171) Mark VIe controlling, fast track project
- Job title** : Consultant Engineer – I&C Maintenance Team Leader

- Job Description** : Representative the owner (EDEPC) East Delta Electricity Production Company to follow up all construction activities, inspection, issue punch item, clear punch item, cold loop check, hot loop check, function test, all GT's start-up testing, calibration of all field instruments, review all the documents, drawings & packages, carry out physical walk downs to make sure that the systems ready to be commissioned according to contract requirements, control specifications and approved drawings this is beside all warranty work after installation and I have attended TOAC meeting in between main contractor (Orascom Construction, General Electric) and the owner.
- Dates** : From Oct. 2009 till Jan. 2015
- Project** : West Damietta Simple Cycle I 4x125MW gas turbine units GE (PG9171E) Mark Vie
- Job title** : I&C Systems Maintenance Engineer
- Job Description** :
- Operation, I&C Commissioning and Start-up Engineer.
 - During this period I have worked in combined and simple cycle, more than 10 years of experience in power plant station.
 - Good experience in troubleshooting, fault analysis and all maintenance activities such as:
 - Supervising the installation process of Temperature transmitters (thermocouple, RTD).
 - Supervising the installation and calibration of (pressure, temperature, level, indicators, transmitters and switches, control valve, and emergency valve).
 - Supervising the installation of GT and auxiliaries (Gas module Skid, APU, Continuity & Insulation Resistance test for primary & secondary cables.
 - Loop checking of each instrument from field to junction boxes and from junction boxes to Marshaling cabinet.
 - Supervising the installation of junction boxes and the connection between them and control panel (MARK Vie).
 - Providing the corrected Instrument Data Sheets, Hook up drawings, P&ID's to the QA/QC department.
 - Supervise the installation of thermocouples for measuring turbine casing temperature.
 - Dealing with electronics circuits and the related data sheet.
 - Ability to use hart communicator (475).
 - Familiar with contactor technical specification and P&ID.
 - Supervising the installation and adjustment of Vibration sensors (seismic and proximities) for measuring case vibration and shaft vibration for turbine and generator, and also shaft (axial) displacement of rotor.
 - Supervising loop check and function test for all instrument devices (RTD, thermocouples, transmitters, switches, flow meters...).
 - Supervising the installation and commissioning of DCS and PLC control systems as well as logic test for all systems.
 - Instrument technician in performing complete loop test from DCS (metso) to field instrument device (analog and digital signal, Modbus).
 - Receiving work orders / schedules, reviewing maintenance programs and assigning work to subordinates.

- Receiving spare parts from the companies in the project site.
- Representative the owner (EDEPC) to follow up all construction activities, inspection, issue punch item, clear punch item, cold loop check, hot loop check, function test, all GT's start-up testing, calibration of all field instruments, review all the documents, drawings & packages, carry out physical walk downs to make sure that the systems ready to be commissioned according to contract requirements, control specifications and approved drawings this is beside all warranty work after installation and I have attended TOAC meeting in between main contractor (KN) and the owner.
- I have participated with KN in the installation of:
 - Turbine skid.
 - Auxiliary skid.
 - Generator skid.
 - Gas detection system (Hazard gas).
 - Fin fan cooler and cooling pumps.
 - Inlet and exhaust plenum.
 - Air filter system (evap. Cooler - expansion joint - filter module – Filter Element - media).
 - Exhaust system and stack.
 - Turbine and auxiliary acoustic enclosure.
 - Generator acoustic enclosure.
 - Ventilation system (Turbine, Generator and Auxiliary).
 - Turbine auxiliary skids (Water wash skid, water injection, Gas module, GLAC & GNAC, SSOV, Gas fuel skid, CEMS skid, APU skid, Distillate skid, CO2 container, fire protection system CO2 container, water on transformer and exhaust frame blowers).
- Responsible for DLN Retrofit in 4 gas turbines frame 9E including construction, commissioning and start-up.
 - Receiving of all DLN instrument and control devices for all units with KN & GE Site lead.
 - Installing new spark plug and flame detector system.
 - Modify Purge air system.
 - Modify atomizing air system.
 - Modify cooling and sealing air system.
 - Modify water injection system.
 - Modify gas fuel system.
 - Modify water cooling system.
 - Carry out all commissioning required for starting up.
- Responsible for Water Treatment Instruments and Control System (PLC Allen Bradley) (Calibration – Installation) for Various Instruments and Technical experience about different types of:
 - Pressure transmitter.
 - Flow transmitter.
 - Flow transmitter.
 - Level transmitter.
 - Temperature transmitter.
 - All Valves.
 - Analyzers.

Dates : From Aug. 2008 till Jan. 2009
Project : West Damietta Simple Cycle I 4x125MW gas turbine units GE (PG9171E)
Mark Vie
Job title : Operation Management Engineer
Job Description :

- Establishing operation engineering team.
- Organizing and distributing operating shifts.
- Orientation sessions for new engineers.
- Preparing Training courses for new engineers.
- Supervising operating team.

Dates : From Apr. 2005 till Aug. 2008
Project : Damietta CCPP 1375MW (8x125MW gas turbine units SIEMENS SGT5-2000E (V94.2), 3x145MW steam turbine units ALSTOM)
Job title : Shift Operation Engineer
Job Description :

- Operating & monitoring 220KV, 66KV, 6.3KV (A.C.) & 220V, 48V (D.C.) switchgears.
- Operating & monitoring 135MW gas turbine units SIEMENS SGT5-2000E (V94.2):
 - Operation and monitoring performance of SIEMENS SGT5-2000E (V94.2) single shaft single casing – twin vertical combustion chambers - 135MW base load unit gas turbine.
 - Carry out starting, normal operation, shut-down and stand still.
 - Trouble shooting analysis.
 - Analyze gas turbine faults and upsets, investigate and recommend solutions.
 - Monitoring all readings of pressure, temperature, flow rate, vibration, valve position, liquid levels and power generated.
 - Taking all steps to restore the normal operating condition in case of readings change due to causes not associated with the mode of operation.
 - Checking all auxiliary equipment and devices (auxiliary power supply, lubrication and control oil system, fuel oil system, fuel gas system and ignition gas system).
- Operating & monitoring plant auxiliaries like:
 - Instruments & service air compressors (2 stages, 9 bars, with dryer).
 - Diesel generators (2.4MW, 6.3 Caterpillar).
 - Intake & water pump house and its D.C.S. control.
 - Closed cooling water, service water & circulate water. Conditioning system (chiller).
 - Firefighting system (water & carbon dioxide).
 - Operation in oil separators (fuel oil treatment).
- Operating & monitoring boiler HRSG 250 ton/h (Borsig): DCS Operating Boilers HRSG (Heat Recovery Steam Generation) and its auxiliary such as HP & LP pumps, drums, super heater, filling, safety valves, pumps, instrument sets pressure gauges (PG) & transmitters (PT) and working in the emergency trip of HRSG (ET).
- Operating & controlling equipment through D.C.S (Westinghouse):
 - Ensure plant is running at optimal level, by reading trends and paying attention to detail to notice possible problems before they happen.

- Report all plant upset conditions during Shift engineers.
- Direct outside operator to all site equipment to operate safely and efficiently.
- Operate all plant equipment/systems within scope of job responsibility.
- Ability to understand control logic.
- Operating & controlling equipment through ovation system control: (EMERSON process Management Company).
- Operating & monitoring 145MW Steam turbine (ALSTOM): DCS Operating the steam turbine 145MW and its auxiliary such as condenser, condensate pumps, circulating water pumps, lube oil system, control oil, system, generator cooler step up transformer and its pumps.