

101124-ICX-CMOS-E-2005

Instrument Commissioning Engineer

Holds a B. Sc. in Electronics & Automatic Control Engineering and a Diploma in Electrical Power Station. Has over 11 years hands-on experience, including 3 years working in operation and 8 years in I&C field at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/01/1982
Gender : Male
Marital Status : Married
Residence : Mahmoudia

EDUCATION

: B. Sc. in Electronics & Automatic Control Engineering, Menoufia University, 2005
: Diploma in Electrical Power Station

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: SIPROTEC 4 – Numerical Protection Devices SICAM PAS training, Siemens Power Academy, GERMANY:

- DIGSI 4 software.
- Protection System.
- SICAM PAS software.

: Fire Fighting training & Hydrogen Generation Plant, TOSHIBA Plant System & Service Corporation.

: Hydrogen Generation Plant - TOSHIBA PLANT SYSTEM & SERVICE CORPORATION.

: I&C Maintenance training of Gas Turbine, MHI Power Generation, Site training.

: Maintenance & operating of Steam Turbine, ANSALDO Energia, Site training:

- Steam turbine operation and maintenance.

- Generator protection and excitation system.
- ABB Symphony Harmony DCS control system.
- Auxiliaries operations and maintenance.
- Start-up and shut down procedures.

Training with MHI Stuff (GAS turbine commissioning, start-up and operation) which included:

- Gas turbine bypass damper.
 - Generator system Protection system/Excitation system.
 - Vibration monitoring system.
 - Torque converter, Gas turbine auxiliary CO2 fire fighting system.
 - Fuel gas compressor.
 - Blade washing system and intake system.
- : SYMPHONY-HARMONY & PGP Training & ALLEN BRADLEY PLC Training, ABB, Site Training.
- : Transducer Installation & Maintenance, ABB.
- : GE (Bentley Nevada) Training.
- : DCS Centum 3000 training in El-Atf site.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From May 2015 till now
Employer : Carlo Gavazzi
Project : West Nile Delta Project to gas production, Idku Site
Job title : Instrument Commissioning Engineer

Dates : From Oct. 2013 till May 2015
Employer : Ansaldo Energia
Project : BANHA POWER PLANT 750MW COMBINED CYCLE CP-106 STEAM TURBINE
Job title : I&C Engineer
Job Description :

- Pre-commissioning, Commissioning and Start-up sequence.
- Continuity check.
- Loop check.
- Field instrumentation calibration & Commissioning.
- Pressure instruments (transmitters, switches ...).
- Level instruments (transmitters, switches ...).
- Flow instruments (transmitters, switches ...).
- Temperature instruments (transmitters, switches ...).
- Electro-Pneumatic Positioner adjustment (ABB, STI, SIEMENS, MASONEILAN, YOKOGAWA, FISHER).

Dates : From Jun. 2009 till Oct. 2013
Project : El-Atf Combined Cycle Power Station (750MW):
Consists of:

- 2x250MW Gas Turbine (MHI).
- 2 x 360 ton/hr Heat Recovery Steam Generator (NEM).
- 250MW Steam Turbine (Ansaldo).
- 220KV GIS Switchyard by Siemens (SIPROTEC4, DIGSI & SICAM PAS) and CENTUM CS3000 R3 DCS by Yokogawa.

- Job titles** : • I&C Maintenance Engineer (from Jun. 2010 till Oct. 2013)
• Shift Charge Engineer (from Jun. 2009 till Jun. 2010)
- Job Description** : • Yokogawa Centum CS3000 R3 DCS commissioning & start-up:
- Loop check and Test Functions.
- Starting up HIS and ENG stations.
- Editing Logic and Sequence Tables.
- Creating/editing trends and the Graphic Windows.
- Field Control Stations Configuration and redundancy test.
- Calibration all devices installed on HRSG (pressure transmitter – flow transmitter – level transmitter – thermocouple – pressure switch) using.
- DRUCK (DPI 610 - DPI 620) – FLUKE 725 EX - HART 375.
- Adjust stroke (Auma valve - Drhemo valve).
- Calibration pneumatic control valve.
- ABB Control System DCS for Ansaldo steam turbine Symphony-Harmony Composer 5 & PGP:
- Loop check and Test Functions.
- Commissioning & start-up.
- I was responsible for the following items in major inspection for Ansaldo steam turbine.
- Adjust the Turbine Supervisory Instrument such as (radial vibration, Thurst vibration and speed sensors).
- Calibration of all pressure transmitters, pressure switches, Switches, all type of RTD and thermocouple.
- Calibration of all control valves and shut off valves.
- As Shift Charge Engineer:
- Gas turbine start-up and shutdown Procedures.
- Start-up and Shutdown Procedures for HRSG and Auxiliary's.
- Steam turbine start-up and shutdown Procedures.
- Site observation, equipment's check and maintenance and writing daily reports.
- All daily operation tasks.

Dates : From Mar. 2007 till May 2009

Project : El-Mahmoudia Combined Cycle Power Station:

Consists of:

- 8x25MW Gas Turbine (GE).
- 8 x 45 ton/hr Heat Recovery Steam Generator (NEM).
- 2x50MW Steam Turbine (GE).
- 220KV and 66KV Switchyard and INFI999 DCS by ABB.

Job title : Shift Operation Engineer

- Job Description** : • Gas turbine start-up and shutdown Procedures.
• Start-up and Shutdown Procedures for HRSG and Auxiliary's.
• Steam turbine Start-up and shutdown Procedures.
• Site observation, equipment's check and maintenance and writing daily reports.
• All daily operation tasks.

Field of experience: I can deal with:

- Gas turbine up to 250MW with different manufactures (GE, MHI), with different control systems.
- Steam turbine up to 250MW with different manufactures (GE, Ansaldo),

with different control systems.

- Heat Recovery Steam Generator (HRSG) which the link between the gas turbine and the steam turbine.
- HRSG and gas turbine continuous emission and monitor system.
- Different types of pumps (centrifugal, axial, gear, etc.).
- Different types of control system (PLC, DCS, SCADA, Mark V, DIASYS).
- Different types of substations (conventional and GIS) and at different voltage level up to 220KV.
- Transformers with different voltage levels up to 220KV.
- Black out (emergency trip (shut down)) and starting the power station from dead point and I did it several times.
- Hydraulic control systems.
- Different types of valves (motorized, hydraulic, pneumatic).
- Different types of compressors.
- Hydrogen generation plant.
- Electric equipments installation.
- Chemical treatment of water and sampling systems.
- Commissioning of NEM's Heat Recovery Steam Generators attached to Exhaust of Gas Turbines, Steam Turbines.
- Commissioning of Ansaldo Steam Turbine.