

100746-CSX-45MSix-E-2011
Instrument Commissioning & Start-up Area Supervisor

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 9 years hands-on experience working in I&C maintenance, commissioning and start-up.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 24/01/1989
Gender : Male
Marital Status : Married
Residence : Gharbia

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2011

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Matlab
: AutoCAD
: Dialux
: ETAP

TRAINING COURSES AND CERTIFICATIONS

: PLC advanced course.
: Power system distribution course.
: Power system protection course.
: Training at Cairo Oil Refining Company, Tanta Laboratory (from Jul. till Sep. 2009): studying and knowing how to make a control system using PLC and other control instrument.
: Training at Generation Power Plant (from Jul. till Sep. 2010): understanding the configuration of power system and studying the protection system of the various parts of power.
: ICDL

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2016 till Jun. 2020
- Employer** : GS Engineering & Construction
- Project** : ERC Refinery Project
- Job title** : Instrument Commissioning & Start-up Area Supervisor
- Job Description** :
- Perform commissioning testing activity such as Instrument Loop Testing (Single Loop, Complex Loop, Fire and Gas Loop), Function Testing (Cause & Effect, DCS and ESD function test) and testing for several packages such as Fuel Gas Compressor package, Instrument Air Compressor package, Chemical Injection package, Steam Boiler package.
 - Perform commissioning & start-up of 6 number of heater (DHT reactor feed heater, NHT reactor feed heater, splitter re-boiler heater, NHT stripper re-boiler, Delay cocker unit heater and reformer stabilizer re-boiler heater) and troubleshooting all problem related to them (heater control panel, heater ignition panel, flam feedback system, ignition system and stack damper configuration and calibration).
 - Perform commissioning & start-up of 15 number of gas compressors (2 no of NHT recycle gas compressor, 2 no of HYDROGEN rich gas compressor, 2 no of NITROGEN gas compressor, 2 no of regeneration loop compressor, 2 no of DHT make up compressor, 2 no of DHT recycle compressor and 1 no of REFORMER recycle gas compressor).
 - Perform commissioning & start-up of hydraulic decoking system and coke handling system in DCU.
 - Perform Commissioning and Troubleshooting of various Field Instrument such as Pressure Transmitter, Temperature Transmitter, Level (DP, Radar), Flow (DP, coriolis, vortex, magnetic & Ultrasonic), Vibration Transmitter (accelerometer, velocity & displacement), Fire and Gas (HGD, FGD & TGD), Control Valve, Shut Down Valve and Blow Down Valve.
 - Perform commissioning & start-up 3 no of BABCOCK-HITACHI boilers (90 tons of steam per hour) and having good knowledge in Burner Management System (BMS), Oil and Gas Fuel system and troubleshooting of boilers.
 - Responsible for Calibration and Functional Checks of all types of Smart Instruments, Sensors and Final Control Elements.
 - Commissioning of Emergency shutdown valves (on-off) with PST Operation and performing partial stroke configuration.
 - Performed Cause and Effect Test to ensure all F&G logic, DCS logic and ESD logic are well function before turn-over to the client and Provide effective troubleshooting during loop test and logic test.
 - Assist start-up and operation activities, including troubleshooting and function test of instruments to confirm the logic perform as per the system description and operation philosophy and to document the testing is complete.
 - Review engineering and vendor document such as P&ID, hook up drawings, Control system philosophy, cause & effect, loop drawings, Cause and Effect Diagram, Sequence Logic, I/O List, Alarm Index, Data Sheet, Instrument Loop Diagram, Wiring Connection List and Cable connection Schedule.

- Perform walk down inspections on the handed over subsystems that are ready for commissioning.
- Create a punch lists related to mechanical, electrical and instrument installation that didn't comply with the relevant hook up drawings, PIDs, process and control philosophy.
- Prepare progress reports for project management review, describing item work-off, loop check count completion, logic check progress and activities planned next week.
- Coordination and supervision of Construction support activities during the performance of the pre-commissioning and commissioning activities.
- Inspect, test and troubleshoot electrical equipment motors, starters, breakers, transformers, isolation switches, relays, AC Drives, electrical cable and heaters control panels.
- Extensive knowledge and experience of Switchgear, Motor control centers, Transformer, Standby diesel Generator, UPS and earthing.
- Prepare electrical equipment specifications, data sheets, control philosophy and substation equipment layouts.
- Performing electrical calculations and studies such as short circuit, load flow, voltage drop, reactive power capability, cable sizing, fuse sizing, and relay coordination.
- Having experience on working in 6.6KV/11KV medium voltage operations Switch gear with Schneider motor protection relay (MICOM P242, P243).
- Having good experience in using fluke 724 temperature calibrator, druck geni DPI620, druck DPI611 generator, 475 field communicator, flucke 179 true RMS multi meter and MA Calibrator.

Dates	:	From Apr. 2014 till Apr. 2016
Employer	:	Pharonic Petroleum Company / Enppi
Project	:	Port Said
Job title	:	Instrument Commissioning & Start-up Engineer
Job Description	:	<ul style="list-style-type: none"> • Perform Commissioning and Troubleshooting of various Field Instrument such as Pressure Transmitter, Temperature Transmitter, Level (DP, Radar), Flow (DP, corilios, vortex, magnetic & Ultrasonic), Vibration Transmitter (accelerometer, velocity & displacement), Fire and Gas (HGD, FGD & TGD), Control Valve, Shut Down Valve and Blow Down Valve. • Responsible for Calibration and Functional Checks of all types of Smart Instruments, Sensors and Final Control Elements. • Commissioning of Emergency shutdown valves (on-off) with PST Operation and performing partial stroke configuration. • Performed Cause and Effect Test to ensure all F&G logic ,DCS logic and ESD logic are well function before turn-over to the client and Provide effective troubleshooting during loop test and logic test. • Review engineering and vendor document such as P&ID, hook up drawings, Control system philosophy, cause & effect, loop drawings, Cause and Effect Diagram. • Sequence Logic, I/O List, Alarm Index, Data Sheet, Instrument Loop Diagram, Wiring Connection List and Cable connection Schedule.

Dates : From Dec. 2011 till Mar. 2014

Employer : El-Arish Cement Factory

Job title : Instrument Maintenance Engineer

Job Description :

- Carry out maintenance & calibration work of all types of field instruments such as temperature, pressure, level and flow transmitters.
- Carry out maintenance & calibration work of vibration sensors (displacement, velocity and acceleration) BENTLY NIVADA product type.
- Installation, calibration and loop checking of the field instruments (Emerson Rosemount, ABB, Endress & Hauser, Bently Nevada, Honeywell and Yokogawa).
- Experienced in flow meters configuration (electromagnetic, orifice plate, ultrasonic, vortex, mass flow meter and coriolis flow meter).
- Carry our maintenance and calibration of gas detectors (FGD, HGD and TGD).
- Maintenance and calibration of pneumatic control valve (fisher, metso and Flowserve) and performing partial stroke configuration for shutoff valve.
- Review of control philosophy, P&I diagrams, cause & effect diagrams, instruments I/O list and flow chart.
- Review vendors' documents, maintenance manuals and spare parts lists.
- Proficient ability to understand control philosophy and write functional requirement specifications based on expected functionality including description of control loops, interlocks and alarms.
- Working experience on rotating equipment especially steam turbine and compressors.