

101702-ICX-14CMOS-E-2005
Lead I&C Commissioning & Start-up Engineer

Holds a B. Sc. in Electronics & Communication Engineering and has about 16 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/08/1983
Gender : Male
Marital Status : Married
Residence : Currently Oman

EDUCATION

: B. Sc. in Electronics & Communication Engineering, 2005

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Control system and instrumentation for Steam turbine, Generator and Condenser from "Mitsubishi Heavy Industry" in Japan (Nagasaki).
- : Industrial instrumentation and control course.
- : English courses in American University in Cairo.
- : YOKOGAWA CENTUM CS300.
- : Bechtel training for Basic of Thermal Power Stations.
- : Safety training by PGESCO.
- : Control system and instrumentation for Steam turbine "Mitsubishi".
- : Programmable Logic Control (PLC) Siemens Step7 Part 1.
- : Programmable Logic Control (PLC) Siemens Step7 Part 2.
- : Transformers.
- : Auxiliaries.
- : Generators.
- : Switchyard.
- : Operation system of power station.

: ICDL

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2020 till now
Employer : OHL Industrial and Partners Oman
Project : SRCCP Combined Cycle Power Plant
Job title : Lead I&C Commissioning & Start-up Engineer
Job Description : Lead I&C commissioning activities such as:

- Commissioning activities Steam turbine Siemens and T3000 control system energization and putting ready for hot loop Check.
- Commissioning of Bentley Nevada 3500 turbine vibration system.
- Commissioning of all axillary systems like: Lube oil, lift oil, oil conditioner, vapor Extractor Hydraulic oil Skid and its oil conditioning skid.
- Calibration of ESD valves (Shut off Valves).
- Functional check and calibration of all valves like: Main Steam Valves, and Air Operated Valves (AOV's).
- Carry out the initial rolling of the turbine to reach to full speed no load (FSNL), Synch and reach the base load.
- Perform all the function tests with Siemens TA like: Over speed Test, Steam Valves Test (MSV & ASV), Trip Test, and Valve Tightness Test (MSV & ASV).
- Condensate Extraction and Closed Cooling pumps, Air cooled condenser system.
- Powering up Yokogawa control system, Cold & hot loop checks.
- Commissioning of the boiler auxiliaries with Vendors: Diverter Dampers (Blorochi), Boiler Feed water pumps (Pump works), Steam sampling & Analyzers (SWAN), Continuous Emission Monitoring System (Chemtrols) and Steam Bypass Valves (IMI-CCI) with the Vendors.
- Lead and guide the Commissioning Group of technicians in the discipline of Instrumentation and other related disciplines in terms of project delivery, safety and plant reliability in the frame of Commissioning Group Strategy and its Guidelines.
- Energization of Instruments, equipment's, Yokogawa Control cabinets / Panels, Network Cabinets.

Dates : From Jan. 2019 till Jan. 2020
Employer : Intecsa Industrial
Project : FERTILIZERS COMPLEX in SOKHNA (FCS)
Job title : Lead I&C Commissioning & Start-up Engineer
Job Description : Lead I&C commissioning activities such as:

- Commissioning activities at DAP Factory & TSP Factory, Conveyors, Elevators, Medium Voltage degusting fans, Drums & Screens.
- Worked with Vendors of Bagging system, Ammonia cooling system, Milling system and Tripper.

Dates : From Nov. 2014 till Dec. 2018
Employer : Arabian Bemco Contracting Co.

- Project** : Saudi Arabia Riyadh Combined Cycle Power Plant PP10 - CCGP 3600MW (10 Power Block (4x4x1)) - HRSG NEM, STG GE, Steam Air Condenser, WATER TREATMENT PLANT
- Job title** : Lead I&C Commissioning & Start-up Engineer
- Job Description** : Lead I&C commissioning activities such as:
- Commissioning activities at HRSGs, Steam turbine GE SC4, Condensate Extraction and Closed Cooling pumps, Air cooled condenser system.
 - Worked with GE Vendor for smooth completion of the work related to I&C works at steam turbine GE SC4 (270T853) and Generator GE 290T853 (132MW).
 - Powering up GE control system (Mk VIe), Cold & Hot loop checks.
 - Commissioning of all axillary systems like: Lube oil, lift oil, oil conditioner, vapor Extractor Hydraulic oil Skid and its oil conditioning skid.
 - Calibration of ESD valves (Shut off Valves).
 - Functional check and calibration of all valves like: Main Steam Valves, Motor Operated Valves (MOV's), and Air Operated Valves (AOV's).
 - Carry out the initial rolling of the turbine to reach to full speed no load (FSNL), Synch and reach the base load.
 - Perform all the function tests with GE TA like: Offline/ Online Over speed Test (Primary& Emergency), Offline/ Online ETD Test, Steam Valves Test (MSV & ASV), Trip Anticipator Test, and Valve Tightness Test (MSV & ASV).
 - Commissioning of the boiler auxiliaries with Vendors: Diverter Dampers (Bachmann) Soot blower (Diamond Power), Boiler Feed water pumps (Thermomeccanica), Steam sampling & Analyzers (SWAN), Continuous Emission Monitoring System (Chemtrols) and Steam Bypass Valves (Koso-Rexa) with the Vendors.
 - Lead and guide the Commissioning Group of technicians in the discipline of Instrumentation and other related disciplines in terms of project delivery, safety and plant reliability in the frame of Commissioning Group Strategy and its Guidelines.
 - Energization of Instruments, equipment's, MARK VI E Control cabinets / Panels, Network Cabinets.
 - Ensure that the quality of the work completed is to project design for the Instrumentation discipline using understandable quality procedures.
 - Ensuring statutory compliance for all Instrumentation installations, equipment and works across the site.
 - Witness and sign off construction activities as completed, including loop functional checks pre-commissioning and commissioning of the new systems.
 - Supporting the Commissioning Manager for initial planning, establishing necessary procedures, documents, resource planning, client coordination, vendor coordination and execution of pre-commissioning, commissioning, start-up and performance tests.
 - Liaise with client management to identify specialized training that may be performed during Pre-Commissioning and Commissioning works.
 - Provide input to completion database organization and design including definition of system and sub-system boundaries, creation of systems completions packages, population of testing requirements, and automatic status reporting under guidance of the Commissioning Manager.

- Extensive experience in Troubleshooting.
- Produce daily and weekly Commissioning status reports detailing progress and key issues which may need to be addressed to management to resolve.

Dates : From Mar. 2013 till Nov. 2014
Employer : Hitachi Thermal Power Systems
Project : El Ain El Sokhna 2x650MW Steam Power Plant
Job title : Senior I&C Commissioning & Start-up Engineer
Job Description :

- Doing the required hot loop checked for all types of field in instrument with Yokogawa centum VP, Siemens s7-400.
- Testing and troubleshooting Auma, Rotork actuators and signal testing.
- Check the function and hot commissioning for filed drives.
- Preparing daily activity proposal and next day activity.
- Commissioning & HLC for all turbine auxiliary systems Lube oil, hydraulic oil, Bypass, Generator H2 Seal oil & Generator Cooling water.

Dates : From Jan. 2012 till Mar. 2013
Employer : Kharafi National Company
Project : Damietta (125MW x 4 Units) Simple Cycle Gas Turbine
Job title : I&C Commissioning & Testing Engineer
Job Description :

- Fuel oil / Fuel Gas skids hot commissioning and signals loop check with TCS.
- Testing and function check for all fail safe and GT hardware trip signals.
- Signal testing and hot commissioning for all gas turbines GIS signals and back energize testing.
- Doing all testing and configuration for BOP firefighting system (Lite-Fire Honeywell System).
- Function check and process testing for Gas Turbines Fin-Fan cooler system and connecting all signals interfaces to TCS.
- Ensure equipment erection & commissioning for safety critical items meets acceptable standards.
- GE GT instrument installation as per approved hook up.
- Doing the required calibration for all Base module and blow-off instruments.
- BOP instrument calibration and preparing the required hook-up.
- Siemens TCS signal hot loop check and testing for all interconnection cables.
- Combustion chamber / Flame signals cable termination and hoot loop checked.
- Installing/Handing over all I&C packages as per GE field quality plan.
- Advise on fabrication, construction, installation and commissioning completion techniques.
- Update of P&ID's with as built and submission to engineering department.

Dates : From Jan. 2011 till Dec. 2011
Employer : Kharafi National
Project : Damietta (125MW x 4 Units) Simple Cycle Gas Turbine

- Job title** : I&C Commissioning & Testing Engineer
- Job Description** :
- Maintenance for Turbine supervisory instrument (TSI) for steam units.
 - Monitoring Gas oil HIPPS system (High Integrity Pressurized Protection System) and perform its proper maintenance.
 - Maintain any problem in the plant control system.
 - Following any defects or process troubles in the plant Auxiliaries.
 - Instrument calibration and preparing the required hook-up.
 - Installation of Continues dosing chlorination valves in the plant intake area.
 - Fuel oil / Fuel Gas skids hot commissioning and signals loop check with TCS.
 - Testing and function check for all fail safe and GT hardware trip signals.
 - Signal testing and hot commissioning for all gas turbines GIS signals and back energize testing.
 - Doing all testing and configuration for BOP firefighting system (Lite-Fire Honeywell System).
 - Function check and process testing for Gas Turbines Fin-Fan cooler system and connecting all signals interfaces to TCS.
 - Ensure equipment erection & commissioning for safety critical items meets acceptable standards.
 - GE GT instrument installation as per approved hook up.
 - Doing the required calibration for all Base module and blow-off instruments.
 - Siemens TCS signal hot loop check and testing for all interconnection cables.
 - Combustion chamber / Flame signals cable termination and hoot loop checked.
 - Installing/Handing over all I&C packages as per GE field quality plan.
 - Advise on fabrication, construction, installation and commissioning completion techniques.
 - Update of P&ID's with as built and submission to engineering department.
- Dates** : From Dec. 2006 till Dec. 2010
- Employer** : Cairo Electricity Production Company under Holding Company for Electricity
- Project** : Cairo West Power Plant:
- Steam Turbine project: 700MW, it consists of two steam turbines "Mitsubishi" and two Boilers "Hitachi" type.
 - Steam Power Station: 640MW, it consists of two steam turbines "Siemens" and two boilers.
- Job title** : I&C Engineer
- Job Description** :
- Responsible for developing and designing new control systems.
 - Maintaining and calibrating all control valves in the field.
 - Expert instrumentation & control installation abilities.
 - Perform the proper operation of the DCS as control system.
 - Maintain any problem in the DCS system during the normal operation.
 - Ensure the good work of all instruments and devices in the power station.
 - Acquiring and fixing any problem in the station control network systems.
 - Experience in troubleshooting and analysis of equipment and system

performance.

- Extensive experience in Electronics devices & control systems.
- Experience in construction of Electronics devices & control systems.
- Pneumatic and electronic control loops.
- Pneumatic and on/off valves.
- Transmitters (Pressure, Flow and Level) using SFC.
- Burner Control System (BCS).
- Burner Management System (BMS).
- Air Compressor.
- Soot Blowing System.
- Fire Protection System.

- Field of experience :**
- HIPPS system commissioning and system function check.
 - Good experience in implementing control solutions in GT systems.
 - Combined Cycle processes checking up / Function testing for I&C related systems.
 - Good understanding of KKS identification system.
 - Professional implementation of the process control philosophy and drives logic.
 - Solution provided for power plants and water treatment plants.
 - Responsibility of commissioning for DCS systems and performing the required other systems interfaces.
 - Main focus on process control designing.
 - Analyze maps, reports, tests, drawings, and other data to design and plan the work.
 - Technical Skills:
 - DCS control systems and all of its standards.
 - Ability to troubleshoot, repair and maintain instruments and instrumentation systems.
 - Extensive knowledge of Instrumentation Design & Control Design Process.
 - Extensive knowledge of Engineering process control logics and software.
 - Good knowledge in Foundation Fieldbus.
 - OLE for Process Control (OPC) Experienced engineering.