

100346-ICX-1CMOS-E-2004
Commissioning & Start-up Section Head

Holds a B. Sc. in Electronics & Communication Engineering and has over 12 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 18/12/1980
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Electronics & Communication Engineering, Zagazig University, 2004

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: CIMPLICITY – SCADA/Proficy HMI Automation software in GE FUNC / Egypt.
: iFIX – SCADA/Proficy HMI Automation software in GE FUNC / Egypt.
: Training on TERBERG control system, IJsselstein / Netherland.
: MS Word & Excel at Arab Group for Computer & Language (AGC).
: Training on Alstom Alspa P320 DCS, Series 6 System in ALSTOM Power Centrales, Massy / France.
: Training on Alstom Alspa P320 DCS system at Madkour Group.
: Training on PLC Siemens S7 300, HA Consulting Group / Egypt.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2005 till now
Employer : Power System Projects Co. (PSP) / Elsewedy Electric
Job title : Commissioning & Start-up Section Head

- Job Description** :
- Beni Suef 4800MW CCPP (SIEMENS):
 - Deputy Commissioning Manager for PSP scope (BOP & WTP).
 - I&C Manager for construction of PSP scope (BOP & WTP).
 - Commissioning of Water Supply and Disposal systems (RAW water, service water, Demineralized water, Potable water, Process Drainage & Treatment System).
 - Commissioning of Auxiliary Systems (Instrument Air Supply System, Sampling Systems, Gas Supply System, Fire Fighting System).
 - Prepare commissioning / I&C plan of the project and implement this plan throughout the entire project life.
 - Assist in the recruitment and mobilization of staff personnel, as well as with the orientation and training.
 - Prepare and follow up the mobilization plan of vendors' rep and short term TA's.
 - Prepare a commissioning schedule and adapt it to comply with construction plan modification as required.
 - Provide support with procedures and other documentation as required.
 - Prepare the plan of the day, and follow up the daily activities.
 - Participate to project review meetings.
 - Prepare all the necessary management reports. And provide feedback to the Head office concerning problems arising and the foreseen solutions.
 - Jeddah South Thermal Power Plant JSTPP - KSA (for Hyundai Heavy Industries CO, HHI): Participated as I&C Team Leader for the commissioning and start-up of the following systems:
 - FGD (Flue Gas Desulfurization) with YOKOGAWA DCS.
 - ESP (Electro Static Precipitator) with Siemens PLC S7.
 - ASH handling system with Allen Bradley PLC.
 - Fast Track Projects:
 - ATTAQA 650MW SIMPLE CYCLE POWER PLANT (SIEMENS).
 - MAHMOUDIA 320MW SIMPLE CYCLE POWER PLANT (ANSALDO ENERGIA / ABB).
 - Attending start-up and commissioning meeting with owner, subcontractors and GT TA.
 - Manage and follow up daily commissioning activities and systems walk down.
 - Commissioning and start-up of Gas turbine and BOP systems:
 - Fin Fans for oil and Cooling water system.
 - Instrument air compressor.
 - EDG.
 - Oil system (lube oil, lifting oil and hydraulic oil).
 - IGV/ turning gear valve/ intake damper.
 - Gas fuel (valves, gas filter and gas module).
 - Liquid fuel – LDO system.
 - Air intake system (pulse compressor, inlet filter, solenoid valves and dust removal).
 - Heating and Ventilation.
 - I&C cabinet.
 - Unit protection (firefighting, gas detection).
 - GT unit start-up and operation tests (Cranking speed, Turning gear, First fire, FSNL, over speed trip test, excitation/ voltage

- build, synchronization, base load and performance test).
- Al-Diwaniya Gas Turbine Power Plant - IRAQ (4x125MW / GE-9E) for PSP: Participated as Commissioning Manager:
 - Preparation for different systems commissioning and start-up procedures.
 - Scheduling the pre-commissioning and commissioning activities.
 - Supervision of the tasks carried out by the commissioning team like motor insulation test, motor heat run test, instruments calibration, loop checks, function and logic test, system flushing, blow out, chemical cleaning and restoration works.
 - Attending start-up and commissioning meeting with owner and GE TA.
 - Manage and follow up daily commissioning activities and systems walk down.
 - Commissioning and start-up of Gas turbine and BOP systems:
 - Cooling water system.
 - Oil system (lube oil and hydraulic oil) and starting means.
 - Washing & cleaning system (washing skid, valves, abrasive cleaning).
 - Gas fuel (valves, gas filter and gas module).
 - Liquid fuel – LDO system (forwarding, heating, filtering, on-base system, atomizing air, purge air, sump tank, water injection).
 - Air system (inlet and exhaust & cooling and sealing).
 - Heating and Ventilation.
 - Unit protection (firefighting, gas detection).
 - Electrical & Control system (SpeedTroinc, MCC, auxiliary panel).
 - GT unit start-up and operation tests (Cranking speed, Turning gear, First fire, FSNL, over speed trip test, excitation/ voltage build, synchronization, base load and performance test).
- PSP New Building (Electromechanical systems / equipment): Participated as Commissioning Manager:
 - Preparation for electromechanical systems commissioning and start-up procedures.
 - Scheduling the pre-commissioning and commissioning activities:
 - HVAC system (cooling and chilled water system including cooling tower, chiller and FCU).
 - Fire alarm/fighting systems.
 - Light current systems.
 - Building management system (BMS).
- Banha Power Plant (750MW Combined Cycle) mechanical equipment and pipe installation package CP-118 (Positions: Commissioning Team Leader / Deputy Commissioning Manager):
 - Preparation for different systems commissioning and start-up procedures.
 - Scheduling the pre-commissioning and commissioning activities.
 - Supervision of the tasks carried out by the commissioning team like motor insulation test, motor heat run test, instruments calibration, loop checks, function and logic test, system flushing, blow out, chemical cleaning and restoration works.
 - Attending start-up and commissioning meeting with owner and PGESCO.

- Manage and follow up daily commissioning activities and systems walk down.
- Commissioning and start-up of Balance of Plant.
- Abu Qir Thermal Power Plant (2x650MW gas / oil fired units 6 & 7), mechanical equipment and pipe installation package (CP-118): Positions: Commissioning Team Leader / Deputy Commissioning Manager:
 - Preparation for different systems commissioning and start-up procedures.
 - Scheduling the pre-commissioning and commissioning activities.
 - Supervision of the tasks carried out by the commissioning team like motor insulation test, motor heat run test, instruments calibration, loop checks, function and logic test, system flushing, blow out, chemical cleaning and restoration works.
 - Attending start-up and commissioning meeting with owner and PGESCO.
 - Manage and follow up daily commissioning activities and systems walk down.
 - Acting Commissioning Manager.
 - Commissioning and start-up of Balance of Plant:
 - Condensate water system.
 - Feed water system (including turbine pumps system).
 - Closed cooling water system.
 - Circulating water system.
 - Turbine steam extraction system.
 - Main and reheat steam system.
 - Aux. steam system.
 - Reboiler steam system.
 - Sump pumps system.
 - Compressed air system.
 - Main Fuel gas system.
 - Fire fighting system.
 - Steam and water analysis system (SWAS).
 - Hydrogen plant system.
 - Desalination plant system (MED).
- Medubi Power Plant 6x794MW (South Africa):
 - Participated in the design of ALASPA P320 control logic programming using ALSTOM Engineering Tool (Controcad).
 - Participated in process graphic displays (Mimics) creation including static and dynamic drawing according to ALSTOM drawing standards.
 - Participated in HMI data base configuration.
 - Participated in application test and mimics test using ALSTOM Testing Tool (SI80).
 - Participated in pre-FAT at ALSTOM platform (Massy, France).
- Fujairah II 2000MW Power and 130 MIGPD Seawater Desalination Plant, RO part (UAE):
 - Participated as DCS Commissioning Engineer (ALSPA P320 system Series 6).
 - Commissioning the DCS system for 6 months mission on site.
 - Perform all necessary design modifications, variables ranges and configure monitoring functions in HMI database.
 - Create and modify control loops in logic diagrams, Process graphic

- displays (mimics), database generation and software download.
- Configure MFC multiple function controllers and make necessary online download for its programs.
- Loop check for all I/O signals in coordination with the different contractors.
- Function check for all equipment controlled from DCS as Intake seawater pumps, valves and chemical treatment, etc.
- NUBARIA III Combined Cycle Power Plant 750MW (Position: Senior Commissioning Engineer):
 - Commissioning, function test and start-up works for HRSG equipments and instruments in the STEAM GENERATORS AND AUXILIARIES PACKAGE (CP-105).
 - Commissioning, function test and start-up works for ELECTRICAL & INSTRUMENT PACKAGE (CP-117).
 - Coordination with DCS commissioning team for loop check, function tests and during the different startup phases of the power plant.
 - Following troubles and making statistics to evaluate cautions of these troubles.
 - Supervision of instruments installation (Racks and Stanchion).
- Fujairah II 2000MW Power and 130 MIGPD Seawater Desalination Plant, RO part (UAE) (Position: DCS Engineer):
 - Participated in the design of ALASPA P320 control logic.
 - Participated in the design of ALASPA P320 control logic programming using ALSTOM Engineering Tool (Controcad).
 - Participated in process graphic displays (Mimics) creation including static and dynamic drawing according to ALSTOM drawing standards.
 - Participated in HMI data base configuration.
 - Participated in application test and mimics test using ALSTOM Testing Tool (SI80).
- Aswan Water and Wastewater SCADA System Project:
 - Participate with the engineering team of SCADA system project.
 - Participated in the site survey in Aswan City.
 - Creating the plants documents based on the collected data from the site.
- Working in ALSTOM Power, Massy – France (from Jul. 2008 till Jan. 2009) (Position: DCS Engineer):
 - Installation, validation and testing of the following projects' complete platforms:
 - El-Kureimat III, 750MW Combined Cycle Power Plant: Setp 5.
 - Flevo, 2x435MW Combined Cycle Power Plant (Netherland): Setp 6.
 - Participated in the software installation document of the project.
 - Participated in process graphic displays (Mimics) creation including static and dynamic drawing necessary for the tests.
 - Participated in HMI data base configuration necessary for the tests.
 - Configuring MFC multiple function controllers PLC, download and troubleshooting.
 - Updating industrial network switches RS-20 firmware and its configuration.
 - Updating the I/O controller's firmware.

- Egyptian Linear Alkyl Benzin (ELAB), from Oct. 2007 till Jun. 2008 (Position: I&C QC Engineer):
 - Inspection for the delivered instruments to the site and checking for any damage or specifications differences and make NCR.
 - Supervision for the installation of the instruments and get clearance of punch list.
 - Make the approval certificates and get the signatures of the authorized.
 - Supervision for calibration of PRV and other instruments and check the used procedures.
 - Supervision for calibration of gas detectors (combustible and toxic).
 - Supervision for cables installation (pulling and terminations).
 - Supervision of test works for cables (continuity and Megger).
 - Supervision for loop check (open and closed loops).
 - Follow up the activities during the calibration and loop check.
 - Supervision for the installation of fire alarm system (flam detector, gas detector, siren and strobe light).
 - Supervision for test work of fire alarm system (cables continuity and loop check).
 - Following troubles and making statistics to evaluate cautions of these troubles.
- Broadband Power Line Carrier (BPL), Communications Pilot Project (Smart Village), Ministry of Communication and Information Technology (MCIT), from Jul. 2007 till Oct. 2007 (Position: Communication Engineer):
 - Supervising the installation of the electrical and electronic equipments and setup the system.
 - Participate in commissioning, testing and start-up for the system.
- Participate in the various activities carried out in the DCS department as Distributed Control Systems (DCS) Engineer (from Mar. 2007 till Jul. 2007).
- New Talkha Combined Cycle Power Plant (750MW), from Feb. 2007 till Mar. 2007 (Position: I&C Engineer):
 - Calibration and Loop Checks for Transmitters (Pressure, Level, Temperature and Flow Xmtrs).
 - Calibration and Loop Test for RTD and Thermocouples.
 - Calibration and Loop Checks for Switches (Pressure, Differential Pressure Δp , Level, Temperature and Flow Switch).
 - Calibration and Loop Checks for Valves (Motor Operated, Air Operated, Control, Solenoid, Safety Valves, etc.).
 - Commissioning, function test and start-up works.
- Cairo North Combined Cycle Power Plant (2x750MW), from Oct. 2006 till Dec. 2006 (Position: I&C Engineer):
 - Calibration and loop checks for transmitters (pressure, level, temperature and flow Xmtrs).
 - Calibration and loop test for RTD and thermocouples.
 - Calibration and loop checks for switches (pressure, differential pressure Δp , level, temperature and flow switch).
 - Calibration and loop checks for valves (motor operated, air operated, control valves, etc.).
- Nubaria I & II Combined Cycle Power Plant (2x750MW), Electrical Contract Package (CP-105), from Sep. 2005 till Oct. 2006 (Position: I&C Engineer):

- Calibration and Loop Checks for transmitters (pressure, level, temperature and flow Xmtrs).
- Calibration and loop test for RTD and thermocouples.
- Calibration and loop checks for switches (pressure, differential pressure Δp , level, temperature and flow switch).
- Calibration and loop checks for valves (motor operated, air operated, control valves, etc.).
- Commissioning, function test and start-up works for HRSG equipments and instruments.
- Coordination with DCS commissioning team for loop check, function tests and during the different start-up phases of the power plant.
- Following troubles and making statistics to evaluate cautions of these troubles.
- Follow up the activities during the reliability test and the performance test.
- Supervision of instruments installation (Racks and Stanchion).
- Supervision for cables installation (Pulling and Terminations).
- Test works for cables (Continuity and Megger).
- Testing for lighting Lux for HRSG area.
- Supervising the installation of lighting, fire alarm and paging systems.

- Dates** : From Jan. 2005 till Aug. 2005
- Employer** : The Arrow Co. for Electronic Systems
- Job title** : System Engineer / Construction Engineer
- Job Description** :
- Installation and maintenance of Sound Systems.
 - Installation and maintenance of Monitoring Cameras.
 - Installation and maintenance of Telephone Systems.
- Field of experience** :
- Over 12 years experience in Construction, Commissioning and Start-up. Responsibilities include construction, pre-commissioning, commissioning, start-up, maintenance, testing and performance testing, possess experience in process control and PLCs, being experienced on all systems and equipment (BOP, simple cycle, combined cycle, thermal plant and WTP). Coordinating between Engineering, Construction, Vendors, Subcontractors, Commissioning, and Operation to meet Client expectations and satisfaction; and working with multi-national crews, including Arabic, English, Italian, Korean, Japanese, Indian, German and French.
 - Execute installation, testing, commissioning and maintenance activities for all field instrumentation and control systems in a professional way.
 - Perform loop and function checks on all field systems and subsystems (DCS/PLC).
 - Preparation and executing of daily & weekly commissioning schedule, making PTW as job nature and Attending Defects as issued by Operation Department. Trouble shootings, planning and preparing protocols as per commissioning requirement.
 - Managing the work team at site and controlling the manpower as per task requirements.
 - Preparation of technical reports, test sheets, failure report in co-ordination with client and other engineers.

- Planning and preparing of time schedule in co-ordination with planning team.
- Provide expert level support in all Protection and control schemes investigations and problem analysis activities.
- Providing technical support to project management and engineering.
- Conducting FAT/SAT for instrumentation and control systems.