

103397-MEC-14CMOSY-E-2010

Leader Operation / Commissioning Engineer

Holds a B. Sc. in Mechanical Engineering and has over 12 years' experience, including 10 years working in Oil & Gas and Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 04/12/1989
Gender : Male
Marital Status : Married
Residence : Suez

EDUCATION

: B. Sc. in Mechanical Engineering, Banha University, 2010

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D & 3D
: Solid Works

TRAINING COURSES AND CERTIFICATIONS

- : Course Planning of Maintenance Operations from AUC - ESS.
- : Course Code ASME B31.1 Power Piping from AUC - ESS.
- : Course Quality Control & Destructive Tests from British Institute.
- : Certified Welding Inspector – CWI No. 17051134.
- : H2S and N2 Awareness & LOTO system (GS E&C Internal Course).
- : PTW (Permit to Work) Training / Certified Permit Issuing Authority (GS E&C).
- : Non-Destructive Tests, International Oil & Services Co.:
 - Course Visual Test (VT) according to ASNT Level II (SNT-TC-1A).
 - Course Penetrate Test (PT) according to ASNT Level II (SNT-TC-1A).
 - Course Magnetic Particles Testing (MT) according to ASNT Level II (SNT-TC-1A).
 - Course Radiographic Testing (RT) according to ASNT Level II (SNT-TC-1A).

- Course Ultrasonic Testing (UT) according to ASNT Level II (SNT-TC-1A).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Jun. 2020 till now
Employer	:	ASORC
Project	:	NAPHTHA COMPLEX PROJECT (Units: NHT, ISOMERIZATION, REFORMER & CCR) ASORC Naphtha complex has been designed to produce high octane number Isomerization (RON 87) & Reformate (RON 104) by using AXENS technology and the complex includes four Process units Naphtha Hydro-treater unit, CCR reforming units (Reforming-Reaction unit and Regeneration unit), and C5/C6 Isomerization unit.
Job titles	:	<ul style="list-style-type: none"> • LEADER (NHT, ISOM-C5-C6, Reformer & CCR) (from Oct. 2021 till now) • CONTROL ROOM ENGINEER (from Feb. 2021 till Sep. 2021) • START-UP / COMMISSIONING ENGINEER (from Jun. 2020 till Jan. 2021)
Job Description	:	<ul style="list-style-type: none"> • Leader Operation Responsibilities: <ul style="list-style-type: none"> - The objective is to provide the project, maintenance, and operation team with a better understanding of the operating instructions and enable them to make wise decisions, should the circumstances deviate from what is covered in the Operating Instructions. - Supervise Preservation works for all to be executed Reforming normal shut-down procedure/ Emergency shutdown procedure for NHT, NHT, ISOM-C5-C6, REFORMER & CCR. - Management and supervise the proper implementation of preventive and predictive maintenance tasks. - Supervise and direct the work of the team for the reliable, safe, and economical operation of the Units. - Review the preventive maintenance program for the maintenance of equipment and initiate programs to improve reliability and equipment performance. - Review engineering drawings, equipment data sheets, vendor selection, bid packages, and project documents for new/revamped machinery and confirm adherence to specifications/standards. - Start-up, Shut down, and Safe Operation for the units. - Provide technical support to production, Operation, maintenance management, and technical personnel. - Prepare Operation Daily Report, NAPHTHA COMPLEX PRODUCTION, and review the Daily shift sample. - Prepare a turnaround shutdown plan to implement safe shutdown and operation during and after maintenance. - Coordinated with the vendor and EPC contractor from abroad. - Manage the interfaces between the various parties on the project including Engineering, Contractors, Vendors, Operations, HSE and Quality. - Coordinate with Planning and Supervisor to make the detailed plan shutdown and schedule.

- Review the PTW, JSA, and Issue Permit to Work for all disciplines in the units.
- Perform job hazard analysis, identify the need for Lockout/Tag out, and identify the correct components to be isolated.
- Send Daily reports for all of the maintenance, instrument devices, Rotary equipment, mechanics, electricity, etc.
- Communicate effectively with the mechanical engineering team and stakeholders, including the subcontractors.
- Ensure the Projects entrusted with are executed in a safe and timely manner within the stipulated quality requirements / standards.
- Commissioning Responsibilities:
 - Equipment: CCR Reformer, Heaters, Regenerator, Column / Drums, Air Coolers Packages, Heat Exchangers, Packinox, Reactors, Thermal Reactors, Pumps / Compressors / Turbine.
 - Supervise Preservation works for all to be executed (Refractory Dry out / Cold and hot circulation procedure / Sulfiding and oil-in / Sulfur Guard Bed activation / Octanizing and CCR unit Oil in procedure MRT for Rotating equipment / Chemical Packages Servicing / Catalyst Loading / Leak Test / Lube oil Flushing / air blowing, steam blowing, oil flushing, chemical cleaning, etc. and Start-up & Shutdown Procedures / H2 sweep / Oil circulation / Acidizing PENEX unit).
 - Review related project documents, Vendor drawings, P&IDS drawings, Procedures, and Method statements.
 - Supervise and execute Mechanical commissioning activities up to start-up.
 - Supervise Mechanical run test for rotating equipment (MRT) (pumps, compressors, air coolers, ...etc.) Piping cleaning (air blowing, steam blowing, oil flushing, chemical cleaning, ...etc.).
 - Detect the defects, analyze the problems, and issue an accurate and argued work request.
 - Assure safe, fast, and efficient resolution of problems to return systems and equipment to ready to run condition.
 - Detect the defects, analyze the problems, and issue an accurate and argued work request.
 - Responsible for the preparation of the overall schedule and execution plan for equipment installation.
 - Developing technical reports, PFD, and Preliminary P&IDs.
 - Include Engineering, Procurement, Construction & Assistance in Commissioning, and Performance Guarantee Test Run (PGTR).
 - Assist in the definition of project scope and objectives, involving all relevant stakeholders and ensuring technical feasibility.
 - Coordinate shift maintenance activities in conjunction with engineering team members to deliver planned, reactive and autonomous maintenance.
 - Prepare a monthly plan with a detailed schedule for mechanical subcontractors' works.
 - Outline the project requirements including actively promoting workshare, where appropriate, assigning tasks, and supervising the progress.

- Manage the interfaces between the various parties on the project including Engineering, Contractors, Vendors, Operations, HSE, and Quality.
- Proactively resolve any discrepancies between ENPPI and its subcontractor's requirements.
- Assist and support junior personnel within the mechanical team.
- Identify issues and problems, and develop appropriate solutions.
- Review and check Logic, ESD & Interlock Narrative, BMS Cause and Effect Matrix, CONTROL NARRATIVE and DCS Graphics Faults, and assist in Loop and Function tests.
- Supervise Preservation works for all Static and Rotating equipment according to specifications and Vendor recommendations.
- Execute commissioning for vendor packages (Reciprocating, centrifugal compressor, Pumps, Air coolers, fired heaters, refrigeration package, chemical injection, dryer system, N2/H2 leak test, etc.) at field and DCS.
- Conducting leak test (CLT –GLT) and Helium test.
- Ensure the Projects entrusted with are executed in a safe and timely manner within the stipulated quality requirements / standards.

Dates	:	From Jan. 2017 till Apr. 2020
Employer	:	GS E&C
Project	:	ERC Refinery Project (Egypt) (Units: SRU, TGTU, ARU, SWS, SSU)
Job title	:	Leader Commissioning / Operation Engineer
Job Description	:	<ul style="list-style-type: none"> • Start-up & Commissioning and Safe Operation for the SRU (3 Trains 6200 Nm³/hr acid & sour gas per train) and reached the full capacities regarding the SOR & EOR and reached the target production of Sulphur Solidification 325 Ton/day with zero flaring. • Pre-Commissioning & Commissioning at Hydrocracker Unit (HCU), Supervise Preservation works for all to be executed (MRT for Rotating equipment / Amine Degreasing / Catalyst Loading / Leak Test / Lube oil Flushing /air blowing, steam blowing, oil flushing, chemical cleaning. • Establish and manage the construction site, including construction management, and site safety and provide leadership in the performance of all activities related to the execution of site safety and construction work covering quality control; planning; cost control; materials management; office management; labor relations, and client relations. • Supervise Preservation works for all to be executed (MRT for Rotating equipment / Chemical Packages Servicing / Sulphur Loading / Sulphur Solidification Unit Commissioning / Amine Degreasing / Catalyst Loading / Leak Test / Lube oil Flushing / Refractory Dry out / air blowing, steam blowing, oil flushing, chemical cleaning, ...etc. and Start-up & Shutdown Procedures). • Develop the systems / subsystems lists and boundary drawings (marked-up P&IDs). • Review the PTW, JSA, and Issue Permit to Work for all disciplines in SRU / SWS / ARU Areas. • Ensure the efficient and effective execution on-site during the Construction phase of regional on-site projects, and provide support during the Commissioning phase.

- Coordinate with Planning and Supervisor to make the detailed plan and schedule.
- Supervise Preservation works for all Static and Rotating equipment according to specifications and Vendor recommendations.
- Check, if the local signal corresponds with the signal on the DCS screen.
- Sulphur Solidification “Sandvik Technology “packages 5 Steel belts, Silo 2*325 m³/14hr.
- Review the package, hydro test, Flushing, Reinstatement & Final Inspection, and Box-up.
- Visual check of the whole equipment.
- Review and check the test package (as built drawing, punch list).
- Compare the latest revision of the P&ID with the completed plant, different pre-commissioning activities, and conducting different systems.
- Energize each measurement individually and adjust range and signal output according to the requirements.
- Oversee the maintenance staff in the analysis of mechanical/operational problems on equipment and testing corrective actions. Ensure adjustments maintain maximum production and quality.
- Good knowledge of HSE processes, Safety Requirements, provide all normal PPEs and special PPEs, Participate in Process and Process Safety Reviews such as Design reviews, HAZID, HAZOP, Risk assessments, and action item resolution plans to mitigate safety hazards and reduce operational risks.
- Familiar with the API, ASME, ANSI, ASTM, and AWS Code for welding and brazing qualification and Procedure welder qualification (WPS / PQR / PWHT / NDT and NCR).

Dates : From May 2015 till Dec. 2016

Employer : INPEC with PSP

Projects :

- BENI SUEF COMBINED CYCLE POWER PLANT 4800MW
- ATTAQA COMBINED CYCLE POWER PLANT 650MW

Job title : Commissioning Engineer

Job Description :

- GAS TURBINE - UNITS 40 & 10; Steam Turbine Units 30 & 40 - SIEMENS Gas Turbine SGT5-8000H (8x400MW).
- GAS TURBINE UNITS 12 & 22 - SIEMENS Gas Turbine SST-5000H (4x400MW).
- Responsible for following Equipment: Gas turbine SGT5-2000E (7), Generator, ALL Equipment, combustion chamber, Air Intake, GT Noise Enclosure, Ventilation Duct System, Diffuse, Stack, Base Module, Transformer Fire Fighting System, network piping and CO2 System-SGJ. Commissioning for systems lube oil, hydraulic oil, fuel oil, closed cooling system, fuel gas plant, seal oil system, and firefighting system. Perform equipment commissioning procedures such as motor solo tests and load tests.
- Ensure the Projects entrusted with are executed in a safe and timely manner within the stipulated quality requirements/standards.
- Check the Foundation, Axes, and anchor, before installing of any Equipment According to Drawing and ITP.
- Following Fit-up according to Drawing, Good ability to make a dimensional inspection of equipment, pumps, piping, nozzles & steel, and visual inspection during the welding process of joints and after

welding.

Dates : From Oct. 2012 till Apr. 2015
Employer : DOOSAN Heavy Industries & Construction Co. Ltd
Project : Ain Sokhna Power Plant (2x650MW)
Job title : Commissioning Engineer
Job Description :

- Equipment: FD fan, GR fan, SA fan, PA fan, SCA fan) - (BRP Pump, SCAH Pump, Condensate Pump), Burner & Gas Air Heater, Soot blower system.
- Commissioning and Start-up of 2*2100 TON/HR Boiler supercritical and Safe Operation.
- Final Box-up Inspection with Owner for astatic Equipment and piping.
- Field Supervisor for Flushing Steam blowing and testing for the boiler.
- Supervise and execute Mechanical commissioning activities up to start-up.
- Coordinate shift maintenance activities in conjunction with engineering team members to deliver planned, reactive and autonomous maintenance.
- Combustion air system, Air preheated system, Blowdown the system.
- Secondary and final superheater system, Fire Fainting system.
- Steam water analysis system (SWAS).
- Storage Vessel & Separator Vessel system, Air Duct System.

Dates : From Jul. 2011 till Sep. 2012
Employer : Military Engineers Administration Dept. - Cairo
Project : Military Service
Job title : Project Engineer
Job Description :

- Send a daily stats project report with the pro plan and solution.
- Coordinate with Planning and Supervisor to make the detailed plan and schedule.
- Send late departments and agencies in the timetable.

Dates : From Oct. 2010 till Jun. 2011
Employer : EGYPT GLOBAL SILICATES COMPANY, SUEZ
Job title : Mechanical Engineer
Job Description :

- Equipment: Burner, Conveyor, Furnace, Silo / Tanks, Air Coolers, Drums, Reactors, Pumps / Blower, Silica Handling System, Bucket Elevator.
- Supervise and execute Mechanical commissioning activities up to start-up. Coordinate shift maintenance activities in conjunction with engineering team members to deliver planned, reactive and autonomous maintenance.
- Responsible for the preparation of the overall time schedule and execution plan for equipment installation.
- Prepare a monthly plan with a detailed schedule for the mechanical Sub-contractors works.
- Outline the project requirements including actively promoting workshare, where appropriate, assign Tasks, and supervise the progress.

- Field of experience :**
- Working as OPERATION / COMMISSIONING ENGINEER at Complex Industrial Mega Projects like Refinery and Power Plant Projects.
 - Manage and supervise assigned team for installation & Inspection & punch clear and commissioning of Static and Rotating Equipment.
 - Direct supervision of OPERATION, commissioning and maintenance.