

100689-MEC-1COSY-E-2016
Commissioning & Operation Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 6 years hands-on experience working in construction, operation, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 19/12/1991
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2016

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet
: Solid Works
: AutoCAD 2D & 3D

TRAINING COURSES AND CERTIFICATIONS

: Fluid power systems and components course.
: Manage and operate thermal power plant course.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Apr. 2022 till now
Employer : Mitsubishi Power System
Project : AL BASRA - IRAQ - El-Hartha Thermal Power Plant (4x200MW)
(Sup Critical)
Job title : Commissioning & Operation Engineer
Job Description :

- Preparing all equipment (pre-commissioning solo runt, heat run test, inspection main oil tank, lube oil piping, first filling).
- Commissioning Lube oil system flushing, control oil flushing, Seal oil flushing, steam blow, initial turning gear, adjustment and check for

steam turbine control valve (MSV, GV, RSV & ICV), vacuum up test, first filling hydrogen gas in generator, bypass operation.

- Initial start-up for Steam turbine, over speed test, Synchronization, Valve test.
- Unit Stabilization (Operation) followed by Performance Guarantee (PG) Test & Reality Test (RT) Role, Unit Controller, Responsibility - Plant operation, prompt and timely response during emergency, Coordinate start-up/shutdown activities, successful execution of RT & PG test.
- TCS operation using DIASYS.
- Startup/shutdown assessment, trouble shooting and problem analysis.
- Follow-up performance and operation of the equipment.
- Preventive maintenance as pre-scheduled.

Dates : From Aug. 2021 till Jan. 2022
Employer : Elsewedy Electric Power Systems Projects
Project : Al-Wilidiyyah - Assiut Steam Power Plant 1x670MW "Supercritical" BOP contract CP-118
Job title : Commissioning & Operation Engineer
Job Description :

- Support commissioning group during testing equipment or systems according to the work procedure.
- DCS operation using Yokogawa & T3000 Siemens systems.
- Unit preparation before start-up (Cold, Warm, Hot).
- Startup/Shutdown procedures for that scope.
- Secure the unit during emergency conditions/shutdown.
- Support the mechanical group during the maintenance work during unit online operation.
- Reporting the unit and equipment condition to operation team leader and commissioning manager.
- Periodical equipment changes over procedures.
- Follow up with the technical office about the equipment condition such as (lubrication, working hours, bearing inspection....., etc.).

Dates : From May 2021 till Aug. 2021
Employer : Elsewedy Electric Power Systems Projects
Project : Layyah CCPP, MPW-ELSEWEDY Consortium, 1100MW - Sharjah, UAE
Job title : Commissioning Engineer
Job Description :

- Preparing all equipment (pre-commissioning solo run, heat run test, inspection main oil tank, lube oil piping, first filling).
- Commissioning Lube oil system flushing, control oil flushing, Seal oil flushing, steam blow, initial turning gear, adjustment and check for steam turbine control valve (MSV, GV, RSV & ICV), vacuum up test, first filling hydrogen gas in generator, bypass operation.
- Initial start-up for Steam turbine, over speed test, Synchronization, Valve test.
- Unit Stabilization (Operation) followed by Performance Guarantee (PG) Test & Reality Test (RT) Role, Unit Controller, Responsibility - Plant operation, prompt and timely response during emergency, Coordinate start-up/shutdown activities, successful execution of RT & PG test.
- TCS operation using DIASYS.
- Startup/shutdown assessment, trouble shooting and problem analysis.

- Follow-up performance and operation of the equipment.
- Preventive maintenance as pre-scheduled.

Dates : From Jul. 2020 till Apr. 2021
Employer : Doosan Heavy Industries & Construction Co. Ltd
Project : Assiut Steam Power Plant 1x670MW Supercritical - Doosan Frame "HPIP-LP4F-GEN-33.5" Steam turbine 670MW (Three-cylinder HP-IP, LP1 and LP2 with 24KV generator hydrogen and stator cooling water system and turbine auxiliaries)
Job title : Commissioning & Operation Engineer
Job Description :

- Preparing all equipment (pre-commissioning solo runt, heat run test, inspection main oil tank, lube oil piping, first filling).
- Commissioning Lube oil system flushing, control oil flushing, Seal oil flushing, initial turning gear, adjustment and check for steam turbine control valve (MSV, GV, RSV & ICV) & first filling hydrogen gas in generator.
- Follow-up performance and operation of the equipment.
- Preventive maintenance as pre-scheduled.

Dates : From Sep. 2019 till Apr. 2020
Employer : Mitsubishi Hitachi Power System (MHPS)
Project : South Helwan Supercritical Power Plant 3x670MW Supercritical - MHPS Frame "TC4F-40.5" Steam turbine 670MW (Three-cylinder HP-IP, LP1 and LP2 with 24KV generator hydrogen and stator cooling water system and turbine auxiliaries)
Job title : Commissioning & Operation Engineer
Job Description :

- Preparing all equipment (pre-commissioning solo runt, heat run test, inspection main oil tank, lube oil piping, first filling).
- Commissioning Lube oil system flushing, control oil flushing, Seal oil flushing, steam blow, initial turning gear, adjustment and check for steam turbine control valve (MSV, GV, RSV & ICV), vacuum up test, first filling hydrogen gas in generator, bypass operation.
- Initial start-up for Steam turbine, over speed test, Synchronization, Valve test.
- Unit Stabilization (Operation) followed by Performance Guarantee (PG) Test & Reality Test (RT) Role, Unit Controller, Responsibility -Plant operation, prompt and timely response during emergency, Coordinate start-up/shutdown activities, successful execution of RT & PG test.
- TCS operation using DIASYS.
- Start-up/shutdown assessment, trouble shooting and problem analysis.
- Follow-up performance and operation of the equipment.
- Preventive maintenance as pre-scheduled.

Dates : From Jul. 2018 till Aug. 2019
Employer : Techint Engineering & Construction
Project : South Helwan Supercritical Power Plant 3x670MW (BOP Contract CP-118)
Job title : Operation Engineer (DCS)
Job Description :

- Support commissioning group during testing equipment or systems according to the work procedure.

- DCS operation using Foxboro 2014 Schindle & T3000 Siemens systems.
- Unit preparation before start-up (Cold, Warm, Hot).
- Start-up/Shutdown procedures for that scope.
- Secure the unit during emergency conditions/shutdown.
- Support the mechanical group during the maintenance work during unit online operation.
- Reporting the unit and equipment condition to operation team leader and commissioning manger.
- Periodical equipment changes over procedures.
- Follow up with the technical office about the equipment condition such as (lubrication, working hours, bearing inspection.....etc.).

Dates : From Jan. 2018 till Jun. 2018
Employer : Elkrom Middle East
Project : New Capital Combined Power Plant 4x1200MW (each unit 2x400MW GT, HRSG, 1x400MW STG)
Job title : Piping Engineer
Job Description :

- Diagnosing breakdown problems.
- Verify the documents / materials received are in accordance with the standards, manufactured / fabricated in accordance with the specification.
- Supervisor on receipt, inspection, checking and storage of materials.
- Install Piping System (Main Steam Critical System (Non-Critical System - Lube System).
- Hydro-test for Critical & Non-critical system, Lube oil system hydro test.
- Follow up the gridding and welding pipe according the WPS.

Dates : From Dec. 2016 till Dec. 2017
Employer : Techint Engineering & Construction
Project : South Helwan Supercritical Power Plant 3x670MW (BOP Contract CP-118)
Job title : Construction & Commissioning Engineer
Job Description : Ensure assigned jobsite operations follow specifications, completed on schedule, within budget and to quality standards. Provide technical and administrative direction to lead field engineer with construction engineers, coordinators and others, Jobsite contacts are with contractors, project management and any jobsite personnel assigned within area of responsibility. Office contacts are with all levels of construction and engineering for following packages:

- Air compressor system (Centrifugal compressor - screw compressor - air receivers - air dryers...).
- Pumps and Drives (Multi stage centrifugal pumps, steam turbine drive, fire pumps...).
- Reciprocating engine (Diesel generator & diesel fire pump).
- Hydrogen compressors.
- Heat Exchangers (Heaters – Coolers).
- Different types of Valves (Gate, Butterfly, Check, Ball and Control Valve).
- Pressure vessels (Reboiler system).
- Hydrogen generating and storage plant system.
- Nitrogen & carbon dioxide bulk storage system.
- Tanks (Light Fuel Oil, Lubrication Oil, Water, Chemical Tanks).