

104379-MEC-1MOS-E-2014
HRSG Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 7 years hands-on experience working in maintenance, operation, commissioning and start-up at Assiut Power Plant.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/01/1991
Gender : Male
Marital Status : Single
Residence : Assiut

EDUCATION

: B. Sc. in Mechanical Power Engineering, Assiut University, 2014

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Machinery vibration analysis - Basic level (Jun. 2021).
: Operation training for steam turbine power plants at Al-Wilidiyyah Power Plant 2x320MW (Sep. 2020).
: Steam turbine maintenance training by GE Instructor (Mar. 2018).
: Combined cycle operation training by GE Instructor (Feb. 2018).
: Steam turbine operation training by GE Instructor (Jan. 2018).
: Operation and Maintenance course of gas turbine power plants at training sector of Upper Egypt Electricity Production Company (Jan./Feb. 2016).
: Hyosung feed water pump and condensate pump training of Assiut Combined Power Plant.
: Advanced training course on Coelmo Generating sets and SICES DST4602 control panels.
: Solid Works 2008 at Mechanical Engineering Department.
: MS Excel 2007
: IC3 (Computing Concept - Microsoft Office - Internet).

- : Practice summer training in Assiut Power Station (Jul. 2012).
- : Practice summer training in Assiut Oil Refining Co. (Aug. 2013).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2020 till now
- Employer** : Upper Egypt Electricity Production Co. (UEEPC)
- Project** : West Assiut Combined Cycle Power Plant
- Job title** : HRSG Mechanical Maintenance Engineer
- Job Description** :
- Generally, assist the maintenance manager in day-to-day operation of maintenance department.
 - Plan and develop projects for new and improved facilities and processes.
 - Assist in plan maintenance activities, including weekend work and plant shutdowns.
 - Perform and assist in troubleshooting of equipment failure to determine root cases.
 - Work flexibility as a part of team and provide support and training to other team members to enhance flexible working.
 - Maintaining plant on site associated with and including HRSGS, gas turbines, steam turbines and pumps.
 - Maintenance schedule for Doosan HRSGs and the other auxiliaries including recirculation pumps and HRSG manual and control valves.
 - Maintenance of feed water pumps and other related systems.
 - Knowledge of the gas turbine maintenance works and its auxiliaries.
 - Knowledge of gas turbine combustion, hot gas and major inspections.
 - Responsible to protect own health and safety by working in compliance with established safe work practices and procedures.
 - Assisted in STG alignment correction after vibration trip.

- Dates** : From Nov. 2017 till Oct. 2020
- Employer** : Upper Egypt Electricity Production Co. (UEEPC)
- Project** : West Assiut Combined Cycle Power Plant
- Job title** : DCS Operator & Field Engineer
- Job Description** :
- Follow up combined cycle tests, commissioning and start-up for Assiut Combined Add-On project with GE operation and commissioning team during the reliability run as "Owner Representative".
 - 2 Block x 4 HRSGs, vertical gas flow (Manufactured by DOOSAN).
 - 2x250MW GE Steam turbines frame D-200.
 - Daily follow up commissioning activities.
 - Follow up equipment test programs.
 - Systems walk down and function tests.
 - HRSG hydrostatic test and chemical cleaning procedure.
 - Closed cooling and condensate systems flushing.
 - Lube oil and hydraulic oil flushing.
 - HRSG and BOP systems line up.
 - Experienced steam blow and ACC hot cleaning with GE Commissioning operation team, following the site activities and the operation from the DCS.
 - Steam turbine D-200 first rolling and turbine tests include load rejection

- test, overspeed test and turbine valves tests.
- Follow up the modifications of the logic for the heat recovery steam generators HRSGs, condensate system, feed water system and the air-cooled condenser with GE commissioning team to work around the problems that appeared during the trial run and tests of steam units.
- HRSGs, ACC and main steam systems in addition to the steam turbine preservation procedures during short and long shutdown periods.
- Safe start-up and shutdown for the steam turbine and its systems:
 - Lube oil, hydraulic fluid, lift oil and TG systems.
 - Seal oil system & Steam seal system.
 - STG hydrogen filling and removing.
- HRSGs start-up and shutdown from the DCS.
- Operate the BOP systems, start-up and shutdown for closed cooling system, condensate system, air-cooled condenser ACC including the vacuum system, demi- water and service water systems.
- To be responsible for monitoring and ensuring the efficient operation of the equipment, handing over to the incoming shift in a systematic and orderly manner.
- To prepare and hand over equipment in a safe manner to maintenance staff for repair and take back in service after checks as per maintenance.
- To provide reliable and accurate information on plant condition and status to the shift charge controller, for planning product movement, maintenance activities, and laboratory analysis and daily management reports.
- Smoothly and swiftly identify abnormalities and appropriate records and documents.
- To handle emergency incidents (Fire, Gas leak, Plant shutdowns, etc.) and ensure emergency plans and procedures are adhered to.

Dates	:	From Jan. 2016 till Nov. 2017
Employer	:	Upper Egypt Electricity Production Co. (UEEPC)
Project	:	West Assiut Simple Cycle Power Plant 1000MW
Job title	:	Operation & Field Engineer
Job Description	:	<ul style="list-style-type: none"> • GE Gas turbines (8x125MW) frame MS9001E, MARK VIE control system. • Safe start-up & shutdown for the units and its auxiliaries from the PEECC and control room to confront the loads in Coordination with the National Control. • Taking the readings of the units and follow-up of the units during operation and maintenance. • Inform the various maintenance about the daily faults that occur for equipment and the auxiliaries which including the online and offline tests of the black start diesel generator. • Implementation of daily, weekly and monthly tests of major equipment and auxiliaries. • Control Field and board operations which includes Essential works for start-up, rolling, shutdown, in addition, manage the loop of the work orders required through the site action tracker program in the gas power plant 8x125MW. • Testing and changing-over for all equipment locally and from control room.

- Work on MV and LV switchgears in addition to the BOP systems, firefighting system, Atlas Copco instrument and service air system.
- Perform online and offline Compressor water wash.
- Connect and disconnect the transformers and circuits from GIS.
- Manage and monitor the plant and operating personnel and take necessary actions to insure operation within all dispatch parameters.
- Capable of performing all control room operating functions and roving field duties.
- Perform safe isolations for permit to work (LOTO).
- Following gas turbine's combustion inspection.