

103427-MEC-1MOS-E-2010

Mechanical Operation Engineer

Holds B. Sc. and M. Sc. in Mechanical Power Engineering and has over 6 years hands-on experience working in operation, maintenance, commissioning and start-up at Sidi Krir Power Plant.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 29/05/1988
Gender : Male
Marital Status : Single
Residence : Alexandria

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2010
: M. Sc. in Mechanical Power Engineering, Alexandria University, 2016

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Process Simulation using Aspen Hysys
: Solid Works
: AutoCAD
: EES (Engineering Equation Solver)
: HTRI

TRAINING COURSES AND CERTIFICATIONS

: Training at Transport & Engineering (NISR TIRES) (2007).
: Training at Alexandria Mineral Oils Co. (AMOC) (2008).
: Training at Abu Qir Fertilizers (2009).
: Training Course in Refrigeration & Air Conditioning (2010).
: West Delta for Electricity Production: Basics of power plants (2011).
: West Delta for Electricity Production: Methods of water Desalination (2012).
: Training course in pumps certificated from Engineers Syndicate (2013).
: West Delta for Electricity Production: Vibration analysis (2015).
: West Delta for Electricity Production: Advanced vibration analysis (2016).

: International Computer Driving License (ICDL).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2011 till now
- Employer** : West Delta for Electricity Production
- Project** : Sidi Krir 1 & 2 (2x320MW) Gas, Oil Fired Steam Power Plant
- Job title** : Operation Engineer
- Job Description** :
- Field Process Engineer:
 - Inspect the unit's and its auxiliaries, electrical, mechanical, control and instrumentation equipment condition prior to start-up, during operations and after shutdown.
 - Have to manage and coordinate the fuel unloading process with logistic workers and security team.
 - Control Room (DCS) Process Engineer:
 - Familiar with distributed control systems (DCS).
 - Start-up, shut-down & safe operation of gas/oil fired steam generator (1032 t/hr, 166 bar /538 °C) by Babcock & Wilcox and its auxiliaries including: natural gas firing, mazout firing, start-up of auxiliary boiler, preparation of reboiler system, soot blowing & chemical cleaning.
 - Start-up, shut-down & safe operation of condensing steam turbine by SIEMENS (320MW, 3000 RPM, 0.076 bar abs) and its auxiliaries including: Bearing lubrication oil, Control oil for turbine valves, Turbine glands seal steam, Condenser evacuation, Turbine extraction & drains and Generator cooling, filling and seal oil.
 - Start-up, shut-down & safe operation of the auxiliaries systems including: Feed water system using variable speed turbine driven feed water pumps, Condensate water, Closed cooling, Service water, Circulating water for condenser cooling, compressed air system and Hydrogen generation using electrical analysis (15m³/hr).
 - Responsible for operating plant controls to minimize or eliminate forced outages.
 - Desalination Plant:
 - Start-up, shut-down & safe operation Multi Stage Flash (MSF) (2 x 5000 ton/day) desalination plant by BABCOCK-HITASHI including: steam brine heater system, condensate return system, brine recirculation system, blow down system, distillate intake system, ejectors evacuation system & acid cleaning system.
 - SIEMENS Overhaul - 2014:
 - Participate in the maintenance of 320MW steam turbine Assembly and Disassembly for IP & LP turbines and its Casings.
 - Sand blasting for turbine's blades and Casings.
 - Inspecting for Turbines' valves, Bearings and Blades.
 - Non-destructive testing (PT, UT, MT and RT) for Blades, Valves, Steam pipes welding and Bearings.
 - Commissioning of the unit after this outage for turbine systems as Bearing lubrication oil, Generator sealing Oil, Control oil for turbine valves and Generator's Hydrogen Purging and filling.