102763-MEC-168MOS-E-2004
Plant Operation & Maintenance Supervisor

Holds a B. Sc. in Mechanical Engineering and has over 19 years' experience working in operation and maintenance.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	10/06/1982
Gender	:	Male
Marital Status	:	Married
Residence	:	Currently Dubai – UAE

EDUCATION

: B. Sc. in Mechanical Engineering, El-Minia University, 2004

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: SAP, Maximo Implement / Acrobat DC, AutoCAD
: Smart Plant Network
: DCS SCADA, GE, Toshiba, Siemens & Yokogawa Systems

TRAINING COURSES AND CERTIFICATIONS

: Risk and opportunity assessment training.
: Time Management, certified from Select Training and Consultancy Institute.
: Management skills, certified from Select Training and Consultancy Institute.
: Planning and organization skills, certified from Select Training and Consultancy Institute.
: Mind Mapping by DEWA occupational & academic development.
: Fire Fighting and safety training, DEWA.
: First aid and health training, DEWA.
: Emergency Aid and Appointed persons (DCAS).
: Design of firefighting system by Engosoft Training Institute.
: Environment Management System & Sustainability Training.
: Many technical training courses and discussions.

: English courses from AUC, Cairo.
: English course from British Council, Dubai.
: Management Skills, certified from ILM.
: Training at CANAL SUEZ shipyard (marine engines).
: Training at Arab Contractors Co. (Diesel engine).
: At Abu Sultan Electric Power Station:
- Operation course.
- General idea about electric power station components & circuits.
- Safety and health system course.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2023 till now
Employer : Almarfaa Power Company (AMPC) – one of TAQA Energy Group, Abu Dhabi – UAE
Project : Delma Island RO Plant
Job title : Plant Operation & Maintenance Supervisor
Job Description :
- Old station Cordex manufacture 2.2 MIGD RO station 4 trains first/second passes.
- New station Cordex manufacture 3.3 MIGD RO station 4 trains first/second passes.
- Hypo production plant 3x electrolysers.

Dates : From Mar. 2010 till Feb. 2023
Employer : DUBAI ELECTRICTY AND WATER AUTHORITY (DEWA)
Projects :
- Jebal Ali K-sea water RO 40 MIGD (ACCIONA AND BSIX) * 2021:
  - 40 MIGD daily water production plant.
  - 12 x RO racks with capacity of 720 M3/H.
  - Complete set of sea water pre-treatment.
  - Complete set of water post-treatment.
  - Schneider and ABB Switch Gears.
  - Project attending from a-z construction & commissioning flows.
  - Project recently started and commissioning tests is in progress.
- Jebel Ali L Power and Desalination L Station Phase I:
  - 3x250MW GAS TURBINE GE FRAME 9F.
  - 3 HRSG Doosan with duct burner (720 T/H, 95 BAR, 562.5 C).
  - 2x165MW BPST TOSHIBA Steam Turbine (90 BAR, 569 C).
  - 2 Auxiliary Boilers IHI (550 T/H, 91BAR, 564 C).
  - 5 x Multi Stage Desalination (MSF) units, Fisia made total of 70 mgpd.
- Jebel Ali L Power and Desalination L Station Phase II:
  - 4x250MW GAS TURBINE SIEMENS 94.3A.
  - 4 HRSG NEM B.V.
  - 2x236MW ALSTOM Steam Turbine DKYZZ3 - 2N41C (100 BAR, 560 C).
  - 1 Auxilliary Boiler NEM (546 T/H, 87 BAR, 580 C).
  - 4 x Multi Stage Desalination (MSF) units, Fisia made total of 56 mgpd.

Job titles :
- Commissioning Engineer at KSWRO Project (Nov. 2020 – Feb. 2023)

- Senior Power Station Operator (Aug. 2017 – Oct. 2020)
- DCS Board Operator (Jun. 2013 – Aug. 2017)
- Power Station Operator (Mar. 2010 – Feb. 2013)

Job Description :

- Controlling a variety of power-generation equipment and machinery during normal operation, scheduled maintenance and emergency repair procedures.
- Monitoring meters, gauges and control boards to verify operational parameters, and make adjustments to distribution, generator output, voltage and electricity flow rates according to standard protocols and power grid requirements
- Utilizing a variety of analogue and digital informational displays to understand operational performance variables, such as electricity flow and voltage, and record information accurately into manual logs and computer databases
- Supervising machinery indicators to determine existence of malfunctions or suboptimal performance, and initiate appropriate repair procedures when necessary.
- Starting and stopping power-generation equipment as necessary to maintain safe operation, allowing for repair work and meeting changing supply and demand variables.
- Following all relevant safety protocols and legal codes to ensure proper operation of equipment and minimize risk of damage to property and personnel.
- Participating in regular training to improve performance, acquiring professional licenses and maintaining certification required by company and government regulations.
- Communicating clearly and effectively with other power plant personnel, including managers, engineers and repair technicians to encourage teamwork and coordinate tasks.
- Planning, scheduling & allocating the work and ensuring the working conditions are as per safety standards.
- Supervising the financial aspects and CAPEX related to payback, infrastructure and development activities.
- Ascertaining areas of improvement and recommending process modifications and equipment calibrations to enhance operational efficiencies of the systems.

Dates : From Sep. 2006 till Feb. 2010

Project : Abu Sultan Electric Power Station, Ismailia:

- Foster Wheeler boilers (530 ton/hour) with 8 burners that could be lit either no 6 fuel or natural gas, and solar as igniter fuel, 2 FDF and 2 IDF.
- GE 3stage turbines of 126 bar steam pressure and 512 C steam temperature. Entrance, 6 extraction points.
- America Delaval condenser.
- GE generator (15KV, 3000rpm, 193 MVA, power factor of .85).
- Main transformer (15KV / 220KV).
- Other facilities (feed water system, condensate system, hydraulic oil system, lubricating oil system, fuel systems, circulating water system, closed loop cooling system, Hydrogen generation system).

Job title : DCS Board Operator Engineer

Job Description :

- Board Operator (from Dec. 2007 till Feb. 2010):
  - Working on Honeywell DCS and GE Mark V.
  - Responsible for monitoring and operating the unit through DCS system.
  - Responsible for proper operation of all assigned equipment and system (Boiler, Turbine, Generator, pumps, compressors…).
  - Carrying out start-up, shutdown, routine, and emergency operation of plant.
  - Changing burning fuel from gas to no 6 fuel.
  - Coping with any operation trouble that arises during achieving any of previous.
- Field Engineer (from Nov. 2006 till Dec. 2007):
  - Learning & understanding all circuits in the station with reading its charts.
  - Daily checking of equipments and determining of defects.
  - Carry out isolation of equipment for planned and emergency maintenance.

Dates : From Nov. 2005 till Aug. 2006

Employer : University Hospital in Ismailia

Job Description :

- General Mechanical Maintenance & Operation Engineer of the following departments:
  - Air conditions & refrigeration systems.
  - Medical gasses like oxygen & nitrous dioxide and it's supplies networks.
  - Air equipments like compressors & vacuum machines.
  - Pneumatics valves & gasses regulators and lines.
  - Boilers department produce 2 tons steam per hour & heat exchangers.
  - Water pumps station & fire pumps and vehicles.
- Lead and manage group of technical workers in the previous department.
- Good at communicative and dealing with other Maintenance works in our site.

Dates : From Jul. 2004 till Oct. 2005

Employer : Ismailia Tractor Co.

Job title : Maintenance Engineer

Job Description : Overhaul & troubleshooting of CAT diesel engine (earth movement & Generators).

Field of experience :

- Summary:
  - 16 years of rich combined expertise in Mechanical Systems / Processes, Erection & Commissioning of plant and equipment in power generation and utilities industry with key focus on profitability and optimal utilization of resources.
  - Expert in controlling and operating on auxiliary equipment such as pumps, compressors, blowers, condensers, feed water pumps, heaters, filters, chlorinators, fuel systems, lubricants, air, auxiliary power switch gears, PLC, instruments.
  - Skilled in controlling operating system to generate specified electrical

power or to regulate the flow of power between generating stations and substations.
  - Skilled in operating desalination units and control all station reservoir levels according to city network water requirements.
  - Proficient in enhancing the operational efficiency, eliminating obsolescence and achieving cost reduction through process improvements, fuel replacement, heat reduction, materials management and inventory control.
  - Exhibits a strong and firm approach for sustaining / encouraging safe work environment to streamline operations and applies continuous improvement principles to increase process and maintenance efficiency and company profits.
  - Track record of implementing cost saving measures to achieve substantial reduction in terms of raw materials, manpower and machine utilization.
- Areas of Excellence:
  - Operations & Maintenance.
  - Project Planning & Scheduling.
  - Process Enhancement.
  - Safety/Environment.
  - Resource/Cost Optimization.
  - Spares & Inventory Management.
  - Equipment Planning & Management.