

Holds a B. Sc. in Mechanical Engineering and has over 29 years hands-on experience working in construction, maintenance, operation and commissioning and became an Operation Manager.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 13/01/1965
Gender : Male
Residence : Ismailia

EDUCATION

: B. Sc. in Mechanical Engineering, Suez Canal University, 1988

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

- : Operation and Control of gas turbine in South Cairo Institute.
- : Pneumatic control system in Abu Sultan Training Center.
- : Training for design and operation for big diesel generator at MAN B&W Factory in Denmark.
- : Training for design and operation of turbine - condenser - turbine auxiliary & generator by Siemens in Germany.
- : Training for the operation and design for boiler feed pumps and its equipments & Booster-, Condensate- and different cooling water pumps by KSB Company.
- : Training course in fire fighting system by Skoda Company.
- : Training session of Situational Leadership by KEN BLANCHARD Company.
- : Training session of Competency based HRM by LOGIC Company.
- : Training session of Great leadership (Franklin Covey).
- : Maintenance management program.
- : Operation and maintenance for gas turbine GE 9 E course at factory of GE gas turbine, Belfort – France.
- : Operation of DCS for the combined cycle unit at Anvinsis Company - Italy.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Dec. 2015 till now
Project : El-Shabab Electrical Power Combined Cycle Station (8x125MW gas turbines + 2x250MW ST turbines) 1500MW
Job title : Operation Manager
Job Description : Where we executed project of transfer 8 gas turbines to combined cycle by added 8 heat recovery steam generators (manufacture by AC Boilers Italian company) and steam turbine (manufacture by Ansaldo Energia Italian company) by capacity of 2x250MW, so the capacity of plant increase from 1000MW (8x125MW) to 1500MW (8x125MW + 2x250MW) and the total efficiency of the plant increase from approximately 33% to 48 % and the specific fuel consumption decrease from 275 G/KWH to 175 G/KWH, this project take approximately 30 months.

Dates : From Jul. 2013 till Dec. 2015
Project : El-Shabab Electrical Power Station 8x125MW gas turbines (GE 9 E – DLN1 and Standard)
Job title : Operation Manager
Job Description :

- The plant consists of 8 gas turbines simple cycle model GE 9E (General Electric company), the capacity of unit 125MW, the normal fuel of it natural gas and the stand by fuel is distillate liquid fuel, the initial mode of operation was standard operation but we transfer it to dln1 operation (dry low nox) operation since 3 years .
- Our responsibility to maintaining ready of operation of these units at any time without any fault and assuring all preventive and corrective maintenance complete.
- Now we transfer our plant from simple cycle to combined cycle by transfer the heat from exhaust (its temp 550 °C) to water and produce steam by HRSG (heat recovery steam generator) to operate two steam turbine capacity of each turbine 250MW, so the capacity of our plant will 1500MW.

Dates : From Jan. 2012 till Jul. 2013
Project : Ayoun Moussa Thermal Power Station 2x320MW
Job title : Operation Manager
Job Description :

- Where the plant consists of 2 steam turbines its capacity 350MW manufactured by Siemens German company, where the rated main steam pressure 166 bar and the rated main steam temperature 538 °C and have three cylinders (high pressure, intermediate pressure, low pressure turbine).
- Also 2 boilers manufacture by Babcock & Wilcox American company, the capacity for each boiler 1028 ton/hour superheated steam till 170 bar and 540 °C.

Dates : From Jun. 2008 till Jan. 2012
Employer : United Sugar Company of Egypt (member of Savola Group) at Sokhna Port - Suez
Job title : Utilities Manager

- Job Description** :
- Our responsibility is manage the operation and maintenance of the heat and electricity power for the factory which summarized by feeding the steam & electricity & raw water & demi water & air and cooling water for all departments at our factory which has capacity 2150 ton white Sugar / day (aprox. 750,000 ton/ year) and and treat the waste water from the refinery.
 - Management for continuous operation and maintenance for two water tube boilers, capacity 100 ton steam / hour for each boiler (manufacture by IBSF company, the agent of Babcock & Wilcox boiler at Egypt).
 - Management for continuous operation and maintenance for steam turbine and its generator, its capacity 14MW (manufacture by NG Brazilian company).
 - Management for operation and maintenance of waste water plant its capacity 1200 m3/day, and it divided to two type treatment, first chemical treatment and second biological treatment by aerobic bacteria and responsible for operation and maintenance for sewage plant capacity of 100m3/day.
 - Management for operation and maintenance of two demineralization units its capacity 40 m3/h demi water (960 m3 /day per each unit) for each unit (manufacture by Culligan I company - Italian) and produce water for boilers by conductivity less than 5 micro Siemens/cm2 and PH between 6.0 to 7.0.
 - Management for maintenance for all auxiliary at utilities department which include 3 screw compressors (Atlas Copco) – emergency diesel generator (Mitsubishi) - accessories pumps and so on.
 - Management for secure the recommended spare parts for all utilities equipments.
 - Management for plan and scheduling the routine and protective maintenance for all utilities equipments.
 - Achievements:
 - Solve the problem of steam leakage to turbine bearing through the seal ring (labyrinths) at the sides of turbine.
 - Solve the problem of steam wet at entrance to steam header to refinery.
 - Solve the problem of large D.O (dissolved oxygen) at feed water to boilers and close to the recommended value.
 - Solve the problem of corrosion for many lines of water and select the suitable material for the water.
 - Solve the problem of disconnect the city (raw) water from the Sokhna Port Station and save 10,000 EGP/day during summer seasons by design and installed toshika system.
 - Restart the sugar factory during 48 hours after stopping by very big mechanical fault (at the mechanical actuator of turbine).
 - Established draining system across the factory to prevent any overflod at the site.
 - Instead the contractors suction trucks by buying suction trucks and save 100,000 EGP/month.
 - Installed chemical cleaning system to the coolers of Atlas Copco compressors.
 - Learn and training my staff from engineers and technicians to problem solving across the utilities area and how managed them

reported.

Dates : From May 2005 till Jun. 2008
Project : Ayoun Moussa Power Station 2x320MW
Job title : Operation Manager

Dates : From Dec. 2002 till May 2005
Project : Ayoun Moussa Power Station 2x320MW
Job title : Senior of Turbine Maintenance Department
Job Description :

- Responsible Engineer for prepare and scheduling the routine & protective maintenance programs for equipment's that belong to turbine maintenance department.
- Sharing for inspection the steam turbines of units 1 & 2 with German experts after 16000 hours operation which including the inspection for the:
 - Main Bearing for the turbines.
 - High pressure & intermediate pressure control valves.
- Sharing of big overall for the main cooling pumps for the condenser which has capacity approx. 22000 m³/h including change all wear bearings for pumps and the wear shafts of the pumps..... manufacture by KSB company.
- Maintenance Engineer for desalination water plant type multi stage effects by capacity of 5000 m³/day per unit - Made by Hitachi – Babcock K.K. Japan company.
- Maintenance Engineer for Hypochlorite Plant made by EMET Italian company.
- Maintenance Engineer of hydrogen & oxygen production station.
- Member of the Ayoun Moussa Training Center.

Dates : From Nov. 1999 till Nov. 2002
Project : Ayoun Moussa Power Station 2x320MW
Job title : Shift Installation & Commissioning Engineer
Job Description :

- Including the Supervision of installation & erection and commissioning of the main turbine and its equipment's such as the main condenser & the main vacuum pumps & the main condensate pumps & the lube oil system & the seal oil system and the gland steam system and so on.
- Shift Operation Engineer for first ignition for boilers no. 1 & 2 in Ayoun Moussa Power Station.
- Shift Operation Engineer for the steam Blow for the Coils of the Boiler & lines to the turbine & Lines to the Boiler feed pumps and different lines which must be blowing before putting it in service.
- Boiler made by Babcock & Wilcox 1023 ton steam / hour & Turbine made by Siemens 350MW.
- Shift Operator Engineer for desalination water plant type of multi stage flash (MSF) - capacity of 5000 m³/day manufactured by Hitachi – Babcock K.K. Company.
- Supervisor for operation for hydrogen production station which including two electrolytic cells made by the ELECTROLIZER CORPORATION & two hydrogen compressors (two stage diaphragm compressor) and one

oxygen compressor its maximum discharge pressure 175 bar made by FLUITRON CORPORATION.

- Promotion to Senior Operation Engineer for Ayoun Moussa Thermal Power Station 2x320MW at Jan. 2002.

Dates : From Feb. 1996 till Nov. 1999
Project : Abu Sultan Thermal Steam Power Station 4x150MW
(Turbine made by General Electric & Boiler made by Foster Wheeler)
Job title : Operation Engineer

Dates : From Apr. 1995 till Feb. 1996
Job Description : Operation Engineer for Gas turbine type of:

- General Motors gas turbine 5.5MW.
- General Electric gas turbine 20MW.

Dates : From May 1990 till Apr. 1995
Job Description : Operation & Maintenance Engineer for diesel Generator Capacity from 1.0-2.5-4.0MW as below:

- Caterpillar diesel generator (American) Capacity of 1.0MW.
- Wartsilla diesel generator (Finland) Capacity of 3.5MW and 1MW.
- Man B&W diesel generator (Germany) Capacity of 2.5MW.
- General Motors Gas turbine (American) Capacity of 5.5MW.