

102817-ELE-1MOS-E-2006

Operation & Maintenance Engineer

Holds a B. Sc. in Electronics & Electrical Communication Engineering and has about 10 years hands-on experience working in operation field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/09/1982
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electronics & Electrical Communication Engineering, Menoufia University, 2006

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: On-shore training of Siemens gas turbine.
: On-shore training of HRSG ALSTOM.
: On-shore training Mitsubishi steam turbine.
: On-shore training of gas turbine by GE Company.
: On-shore training of high and medium voltage (500KV / 220KV / 6.3KV).
: On-shore training Mitsubishi steam turbine by simulator.
: ICDL course.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2007 till now
Employer : Middle Delta Electricity Production Company

- Project** : Nubaria Combined Cycle Power Station (2250MW):
- Two modules, each module consists of:
 - Four Siemens CTG 250MW type V94.3A.
 - Four horizontal Alstom HRSG.
 - Two Mitsubishi STG 250MW (HP, IP, LP).
 - Third module consist of:
 - Two gas turbines 250MW type GE MS9001FA.
 - Two HRSG (STF Company).
 - One steam turbine Alstom type.
 - 500/220KV switchyard in Nubaria Power Station (2250MW), which consists of :
 - 500KV Bus bar consists of:
 - Double bus bar.
 - 15 Bay (9 power transformers 16.5/500KV, 4 tie Transformers 500/220KV, 2 OHTL).
 - Each bay consists of 2 circuit breaker & 4 disconnected switch.
 - 220KV Bus bar consists of:
 - Double bus bar with bus coupler.
 - 12 bay (4 tie transformers 500/220KV, 8 OHTL).
 - Each bay consists of 1 circuit breaker & 3 disconnected switch.
 - 4 tie transformers 500/220/11KV (500MVA):
 - Type of each transformer (on-load tap changer & auto transformer).
 - 6.3KV / 400V switchgear included:
 - 2 transformers 6.3KV / 400V.
 - Batteries & battery chargers (220V DC & 48V DC).
 - Switchyard included with live washing system.
 - Control operation system (pacis).
- Job title** : Operation & Maintenance Engineer
- Job Description** :
- Start-up and shutdown of the power plant units with SCADA system (DCS).
 - Start-up of gas turbine after overhauling.
 - Start-up of heat recovery steam generator.
 - Start-up of steam and gas turbines.
 - Operation of rotating equipment such as circulating pumps, feed water pumps, closed cooling pumps, fire pumps, all plant pumps.
 - Perform the gas turbine and steam turbine during reliability.
 - Start-up and shutdown the machine during testing and turning gear.
 - Commissioning all auxiliaries of gas turbine (lube oil, hydraulic skid, pneumatic skid Fuel gas skid, fuel oil skid).
 - Commissioning of steam turbine auxiliaries (lube oil skid, hydraulic skid, gland steam skid, seal oil, vacuum skid).
 - Check the values of alarm and trip for power plant.
 - Make steam blow for HRSG component (super heater, economizers and evaporators).
 - Make steam blow for high pressure and medium, low pressure coils.
 - Connect and disconnect of power plant transformers, medium, low voltage switchgears (6.3KV, 220KV, 500KV).
 - Observe the work permits during the shift.
 - Solving the troubleshooting during the shift.
 - Operation of gas turbine during the shift SIEMENS V94.3A & GE frame 9FA.

- Have four gas turbine minor inspections of gas turbine including combustion chamber, burners, fuel pipe lines.
- Chemical cleaning of burners, and inspection after cleaning by periscope, combustion chamber tiles to replace the failure tiles.
- Have four gas turbine minor inspection of gas turbine including combustion chamber, burners, fuel pipe lines.
- Chemical cleaning of burners, and inspection after cleaning by periscope, combustion chamber tiles to replace the failure tiles.
- Have four gas turbine hot gas path inspections including combustion chamber, turbine, to inspect combustion chamber tiles, combustion chamber burners, replacement the turbine blades by new one and make treatment of old one by company.
- Have two gas turbine major inspections including compressor, combustion chamber, turbine (replace compressor blade in case of failure, inspection of combustion chamber tiles, burners, turbine blades, bearing inspection, shaft inspection, pumps, valves).
- Regulate the work between Technicians.
- Manage and regulate the work permits during the shift.
- Start-up and shutdown of power plant.
- Commissioning of gas turbine after overhauling including valves, pumps, gas turbine start-up, increasing the load.
- Check and tighten the connection of fuel lines including leakage test before start.
- Check and observe the protection of auxiliaries such as vibration, temperature, pressures, hot and cold spots of blades.
- Observe the power transformer during the shift.
- Connect and disconnect the power plant transformers switchgears.
- Commissioning of inlet cooling of compressor (wet compression).
- In SIEMENS gas turbine we make the overhauling of the machine due to operating hours:
 - Minor inspection (8000 hrs).
 - Minor inspection (16000 hrs).
 - Hot gas path inspection (25000 hrs).
 - Minor inspection (33000 hrs).
 - Minor inspection (41000 hrs).
 - Major inspection (50000 hrs).

Dates : From Jun. 2015 till Sep. 2015

Project : Assiut El-Hammra Station 100MW

Consists of:

- Four GE gas turbines 25MW TM 2500.
- Four power transformers 11/11.5KV.
- Six tanks for raw and clean liquid fuel, one centrifuge pump and two service fuel pump in each site.
- Each unit consists of "turbine lube oil skid & generator lube oil skid, two air cooler, hydraulic starter skid, Nox & fuel pump skid and Dc pump".

Job title : Operation Engineer