102619-ELE-1COSTyz-E-2001
Senior Shift Charge Engineer

Holds a B. Sc. in Electrical Power Engineering and has over 13 years hands-on experience working in operation, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	09/09/1973
Gender	:	Male
Marital Status	:	Married
Residence	:	Kafr El-Sheikh

EDUCATION

: B. Sc. in Electrical Power Engineering, Menoufia University, 2001

LANGUAGES

Arabic	:	Native Language
English	:	Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Operation on-shore training of Alspa p320 distributed control system by ALSTOM Company, Paris – France.
: Basic Operation Training on Steam Turbine 250MW by Mitsubishi Heavy Industries Company, Nubaria.
: Basic Operation Training on Generator 250MW by Mitsubishi Corporation Energy Systems Company, Nubaria.
: Numerical protection relay course by GE consumer & industrial Multilin Company, Nubaria.
: Operation on-shore training of Alspa p320 distributed control system by ALSTOM Company, Nubaria.
: On-site training for protection relays, control instrument and HV switchgear by ABB Company, Nubaria.
: Basic Operation and maintenance on combined cycle by West Delta Electricity Production Company, Damanhour.
: Basic operation on gas turbine by Siemens Company, Nubaria.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2016 till now

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : NUBARIA POWER STATION I & II & III (3x750MW)

Job title : Senior Shift Charge 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 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 Mar. 2016
Employer : GE - EGYPTROL
Project : Mallawi – GE TM 2500
Job title : Operator Engineer
Job Description :

- Dealing with DCS System – Wood Word / Micronet, Logic / GAP.
- Preparation for operation of the units (check alarms and be sure that there is permissive for both units to start and all condition is achieved to start both units, survey for all auxiliary equipments (pumps, valves, filters, transmitters….etc.) for both units, check the level for (fuel tanks and other auxiliary tanks), check fire fighting system is ready.
- Check the voltage and frequency of the grid and verify that it is suitable and in the safe range to start both units, if it is not in the proper range, I coordinate with transformers station to get right voltage for safe operation.
- Change all types of filters (low and high pressure for fuel, air inlet filters....etc.).
- Take a sample every day from the fuel to insure it is pure as can as possible.
- Operate a unit called centrifugal unit used to purify the fuel.
- Follow the right instruction to start both units to keep safe operation.
- Supervise all values (temperatures, pressures, levels and many other important values) during operation from a HMI screen.
- Follow proper steps for normal shutdown and avoid emergency shutdown.
- Register a data sheet contain all values (MW, MW/H, run time hour, start and end time of operation, fuel consumption…..etc.).
- Verify and execute all safety requirements needed for work precisely.

Dates : From May 2005 till Jun. 2015
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : NUBARIA POWER STATION I & II & III (3x750MW)
Job title : Senior Shift Charge 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.
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- 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 Oct. 2004 till May 2005

Project : Damanhour Combined Cycle (156MW) Power Plant

Job title : Engineer of Combined Cycle Power Plant

Job Description : Responsible for operating:

- 4 Hitachi gas turbines (25MW).
- 4 Vertical HRSGs and 1 GE steam turbine (60MW).

Field of experience :

- Witness for all tests in switchyard 500KV / 220KV Switchgears 16.5/6.3KV (C.B, C.T, P.T…).
- Some tests (Polarity, Mugger, turns ratio, etc.).
- Some tests (D.C resistance, Insulation test, turns ratio, TAN δ, etc.).
- Witness for all tests on Power Transformers (Tie transformers, Main, Aux. transformer).
- Witness for some tests on some Relays in Low Voltage Switchgears (6.3KV, 400V).
- Operation and maintenance for steam turbine.
- Commissioning and start-up for "HRSG".
- Steam blow out of four "HRSG" in NUBARIA POWER STATION and Generator (MITSUBISHI Company).
- Electrical constructions for Switchyard (500 / 220KV - 16.5 / 6.3KV).
- Commissioning and start-up for steam Turbine Generator (Mitsubishi).