100722-MEC-1MY-S-2008
Mechanical Maintenance Technician

Holds an Industrial Diploma and has about 13 years experience working in maintenance at Nubaria Power Station.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	20/03/1978
Gender	:	Male
Marital Status	:	Married
Residence	:	El-Behira

EDUCATION

: Mechanical Industrial (Grinding – Machining) (three years)

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

: Windows, MS Office

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2008 till now

Employer : Middle Delta Electricity Production Company (MDEPC)

Project : Nubaria Combined Cycle (3x750MW) Power Station

Job title : Mechanical Maintenance Technician

Job Description :

- Major inspection of unit 5 & 6 Gas turbine at Nubaria (GE 250MW).
- Replacing of the combustion chamber tiles GT 22 & 11 (ceramic and metallic).
- Work as Mechanical Fitter at New Capital Power Plant in:
  - Disassemble the turbine bearing (to modification) Siemens Modules 8000H in the New Capital Power Plant (from 1 Aug. to 30 Oct. 2017).
  - Assemble the turbine bearing Siemens Modules 8000H in the New Capital. Where I have involved for modification on GT bearing seal at GT 31 & 32.
  - Maintenance cooling tower fans in the New Capital Power Plant.
- For Nubaria Power Station in:

- Follow the operation activity in local for GE gas turbine frame FA9001 (250MW).
- Assist in CI inspection for GE gas turbine frame FA9001 (250MW) I worked with supervisor GE company of that inspection in:
  - ❖ Changing cap assembly, combustion linear, transition piece.
  - ❖ Removing flow sleeve, crossfire tubes, fuel nozzle casing.
  - ❖ Make clearance checkup for VIGV by taking backlash, inner bearing clearance & gap between VIGV and bearing casing (body).
- Participate in warranty inspection for GE gas turbine frame FA9001 (250MW) I worked with GE's technical advisor company of that inspection.
- Participate in Major inspection for GE gas turbine frame FA9001 (250MW) I worked with GE's technical advisor company of that inspection.
- Assist in major inspection (LTE) for 4 units SIEMENS gas turbine.
- Assist in minor inspection for 4 unit Siemens gas turbine V94.3A (250MW) I worked with Siemens group of that inspection in:
  - ❖ Chemical cleaning for burners.
  - ❖ Changing of ceramic tiles of combustion chamber.
  - ❖ Visual inspection of turbine & compressor blades.
- Assist in hot gas path inspection for 4 unit Siemens gas turbine V94.3A (250MW) I worked with Siemens group of that inspection in:
  - ❖ Removing the outer casing in the turbine section.
  - ❖ Lifting off upper sections of the turbine stationary blades carrier.
  - ❖ Rolling out the lower section of the turbine stationary blades carrier.
  - ❖ Removing blades / vans for refurbishment / replacement.
  - ❖ Chemical cleaning for burners.
  - ❖ Changing of ceramic tiles of combustion chamber.
  - ❖ Check clearance for 1^{st} stage compressor & 4^{th} stage turbine blades.
  - ❖ Removing and inspection fuel oil and fuel gas stop and control valves and make passing test for all valves.
- Assist in major inspection for 4 units Siemens gas turbineV94.3A (250MW) I worked with Siemens group of that inspection in:
  - ❖ Chemical cleaning for burners.
  - ❖ Changing of ceramic tiles & damage ceramic heat shield of combustion chamber.
  - ❖ Visual inspection of compressor blades.
  - ❖ Check the axial & radial clearance for blades.
  - ❖ Removing the outer casing in the turbine section (Casing 3).
  - ❖ Removing the casing of combustion chamber (Casing 2).
  - ❖ Removing the compressor casings (casing 1, 2 comp).
  - ❖ Lifting off upper sections of the turbine stationary blades carrier.
  - ❖ Lifting off lower section of the turbine stationary blades carrier.
  - ❖ Removing old blades/vans for refurbishment /replacement for all turbine & compressor.
  - ❖ Lifting the rotor form horizontal position to vertical one.
  - ❖ Des-tacking the rotor.

- ❖ Make NDT for all critical places (as slots of the blades of the compressor & turbine disks).
- ❖ Make alignment between the gas turbine & and generator shaft.
- ❖ Make oil flushing.
- ❖ Removing and inspection fuel oil and fuel gas stop and control valves and make passing test for all valves.
- ❖ Removing fuel oil pumps and makes inspection of internal parts and reassembly again and make alignment for the pump.
- ❖ Removing hydraulic oil pump and make inspection of internal parts and reassembly again.

- Assist in minor inspection for Mitsubishi steam turbine (250MW) I worked with supervisor Mitsubishi Company of that inspection in:
  - ❖ Make oil flushing as:
    - ➢ Cleaning of oil storage tank.
    - ➢ Oil transfer to oil storage tank.
    - ➢ Cleaning of main oil tank.
    - ➢ Oil transfer to main oil tank.
  - ❖ Cleaning and inspection of oil purifier.
  - ❖ Cleaning and inspection of oil cooler.
  - ❖ Inspection and cleaning of water chamber for condenser.
  - ❖ Inspection and cleaning of hot well for condenser alignment check for pumps (vacuum pump, oil pump etc.).
- Assist in Major inspection for Mitsubishi steam turbine (250MW) I worked with supervisor Mitsubishi Company of that inspection in:
  - ❖ Removing upper casing for HP - IP turbines.
  - ❖ Removing upper casing for LP turbine.
  - ❖ Removing the stationary blades diaphragms.
  - ❖ Lifting off the rotor.
  - ❖ Inspection for internal prates.
  - ❖ Check the axial & radial clearance for blades.
  - ❖ Make alignment for HP-IP & LP and generator shaft.
  - ❖ Removing the control valves & stop valves and check for internal parts.
  - ❖ Make oil flushing.
  - ❖ Cleaning of oil storage tank.
  - ❖ Oil transfer to oil storage tank.
  - ❖ Cleaning of main oil tank.
  - ❖ Oil transfer to main oil tank.
  - ❖ Cleaning and inspection of oil purifier.
  - ❖ Cleaning and inspection of oil cooler.
  - ❖ Inspection and cleaning of water chamber for condenser.
- Inspection of Generator for Mitsubishi steam turbine 250MW.

Further experiences :

- Doing the maintenance schedules (daily - weekly - monthly - ...etc.).
- Maintenance of the Atlas Copco compressors of the air intake.
- Also we did together the cold commissioning of the fuel oil for four units of Nubaria Power Station.
- Also we did together the hot commissioning of the fuel oil for four units of Nubaria Power Station.
- Good knowledge about the spare parts of V94.3A (2) gas turbines.
- Good knowledge about the special tools of the V94.3A (2) (SGT-4000F)

gas turbines.