101596-MEC-MO-E-2001
Mechanical Operation & Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 9 years hands-on experience in maintenance and operation of power plants (gas turbines, steam turbines, heat recovery steam generators and compressors) & oil and gas plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	01/04/1977
Marital Status	:	Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2001

LANGUAGES

Arabic	:	Native Language
English	:	Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Basic operation / maintenance training for SIEMENS GTG-V94.3A, by SIEMENS Power Generation Co., at Damanhour, Apr. 2004.
: Basic operation / maintenance training MHI STG 250MW, by MHI Power Generation Co., on-shore training at Nubaria Power Plant, Oct. 2006.
: Basic operation / maintenance / I&C training for SIEMENS GTG V94.3A, at Lübbenau, Erlangen – GERMANY, Jul./Aug. 2004.
: Mechanical maintenance training, GT V94.3A (manufacturing, maintenance, service PLANT OPERATION), Berlin – GERMANY, Dec. 2005.
: "DRY GAS SEAL" on-shore training for John Crane dry gas seals, at ELNG SITE – IDKU, Feb. 2010.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Sep. 2008 till now
Employer	:	Petromaint Co.

Project : Egyptian Liquefied Natural Gas (ELNG) site, Idku – Beheira
(2 trains, each train consists of 6 gas turbines MS 5002 D leads 10 centrifugal compressors "Propane 3MCL1405, Ethylene 2MCL1006, Methane MCL806 & 3BCL608", Turbo-compressor dedicated area)

Job title : Machinery Field Service Engineer

Job Description :

- Carry out the running maintenance as planned preventive maintenance activities.
- Carry out corrective maintenance and outstanding activities for all turbo-compressor units.
- Organize, plan and perform the assets activities, preservation activities for spare parts and special tools – arrange, plan and prepare the material, spare parts and special tools needed for maintenance activities and shutdowns.
- Organize & lead manpower required for maintenance activities.
- Ensure the compliance and the appliance of the HSE rules from maintenance team.
- Ensure the professional performance and the quality of the executed jobs.
- Participated in Nov. 2008 shutdown activities for both trains:
  - Carry out the outstanding activities.
  - Sharing at planned activities for train 2 such as:
    - Participated in "HOT GAS PATH INSPECTION" LTPI including replacement to Extender kit (Turbo. compressor repair & D+ upgrade) for 6 FRAME 5 G.T "MS 5002 D".
    - Replace dry gas seals "John Crane" by new set & replace tertiary seals to modified abraded seals (drive & non drive ends) for 8 centrifugal compressors “propane, ethylene, methane”.
- Participated in 1 major overhaul "corrective" for 1 turbine FRAME 5 G.T "MS 5002 D" (Dec. 2008).
- Participated in Mar. 2009 shutdown including activities of hot gas leakage rectification inside the turbine compartment activities for 4 G.T.
- Participated in Jul. 2009 shutdown including dry gas seals "John Crane" replacement by new set & replace tertiary seals by modified abraded seals (thrust side & non thrust side) for 2 methane centrifugal compressors.
- Participated in H.P. turbine major overhaul "corrective" for 1 turbine FRAME 5 G.T "MS 5002 D" (Jan. 2010).
- Participated in H.P. turbine overhaul "corrective" for 1 turbine FRAME 5 G.T "MS 5002 D" (Mar. 2010).
- Participated in 2 centrifugal compressors "propane and ethylene" dry gas seals replacement" (Apr. 2010).
- Participated in "Modular Replacement" for 3 Gas Turbines FRAME 5 G.T "MS 5002 D" after 48000 E.H. and carry out the 48000 E.H. preventive maintenance for all the auxiliary systems (Jun. 2010).
- Participated in "Modular Replacement" for 3 Gas Turbines FRAME 5 G.T "MS 5002 D" after 48000 E.H. and carry out the 48000 E.H. preventive maintenance for all the auxiliary systems (May 2011).
- Participated in "Modular Replacement" for 3 Gas Turbines FRAME 5 G.T "MS 5002 D" after 48000 E.H. and carry out the 48000 E.H. preventive maintenance for all the auxiliary systems (Jul. 2011).

- Participated in "Modular Replacement" for 3 Gas Turbines FRAME 5 G.T "MS 5002 D" after 48000 E.H. and carry out the 48000 E.H. preventive maintenance for all the auxiliary systems (Sep. 2011).
- Participated in Oct. 2012 shutdown including dry gas seals "John Crane" replacement by new set & replace tertiary seals by modified abraded seals (thrust side & non thrust side) for 1 methane centrifugal compressor.

Dates : From Sep. 2004 till Sep. 2008

Employer : Middle Delta Electricity Production Co.

Project : Nubaria Combined Cycle Power Plant (2250MW):

- 2 modules combined cycle (2x750MW) + 1 module combined cycle (1x750MW) in progress - under construction
- 4 SIEMENS V94.3A GTG, 250MW each
- 4 ALSTOM horizontal HRSG - natural circulation (125 bar, 565^{o}C, 325 t/h each)
- 2 MHI STG MITSUBISHI (HP, IP, LP) steam line (650 t/h), 250MW each)
- 220KV, 500KV switchyard, 4 tie transformers 500/220/11KV, all transformers are ZTR
- Medium & low voltage switchgears, 8 outgoing substations 220KV, 2 outgoing substations 500KV
- All the power plant controlled by DCS.

Job titles :

- Rotary Equipment Maintenance Engineer (Sep. 2006 – Sep. 2008)
- Shift Manager (Sep. 2005 – Sep. 2006)
- Shift Engineer (Sep. 2004 – Sep. 2005)

Job Description :

- Participated in 4 minor (combustion) inspections for the entire SIEMENS V94.3A units.
- Participated in 2 hot gas path inspections for module #1 units (Apr. 2008).
- Participated in 1 major overhaul inspection for MHI steam turbine "end of warrantee inspection after 2 years" (Apr. 2008).
- Participated in installation, commissioning, reliability & starting up of NUBARIA Power Plant:
  - Approving designs & submittals.
  - Participated in erections of under & above ground piping, pumps, valves with INITEC Energia Co.
  - Participated in the steam blow tests for HRSG & all related constructions.
  - Participated in the chemical cleaning processes for the piping of the HRSG.
  - Participated SIEMENS side at "loop checks & function tests" for all signals and components.
  - Participated SIEMENS side at "1st rolling, 1st fire & 1st synchronizing" tests.
  - Participated SIEMENS side at inspection of ceramic heat shields of combustion chamber.
  - Participated SIEMENS side at load rejection tests at 50% - 75% & 100% loads.
  - Participated in minor inspections for GT with SIEMENS staff including inspection of combustion chamber & changing the damaged, un-permissible ceramic heat shields.
  - Participated SIEMENS staff at many optimizations of several GT'S.

Dates	:	From Mar. 2003 till Sep. 2004
Employer	:	West Delta Electricity Production Co.
Project	:	Damanhur Combined Cycle Power Plant (158MW): • 4 GE gas turbine generators, 25MW each, FRAME 5 – MS5001, MARK II • 4 NEM vertical HRSG, 35 bar, 50 t/h • 1 GE steam turbine generator, 60MW, MARK V, 35 bar, 450^{o}C, 200 t/h • 220KV switchyard, 66KV substation • All the power plant controlled by DCS.
Job titles	:	• Rotary Equipment Maintenance Engineer (Mar. 2004 – Sep. 2004) • Shift Engineer (Mar. 2003 – Mar. 2004)
Job Description	:	Attended & participated in MINOR (COMBUSTION) INSPECTION for 2 GTG FRAME 5 – MS5001.