

101494-MEC-14CGMSq-E-2001
Field Technical Advisor Compressors & Turbines

Holds B. Sc. and M. Sc. in Mechanical Power Engineering and has over 21 years' experience working in construction, maintenance and commissioning in Power Plants and Combined Cycle Projects.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Marital Status : Married
Residence : Beni Suef

EDUCATION

- : B. Sc. in Mechanical Power Engineering, Helwan University, 2001
- : Master's Degree in Mechanical Power Engineering, Cairo University, 2014

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : AutoCAD 2D
- : Solid Works
- : Revit MEP
- : Primavera P6
- : EES (Engineering Equation Solver)
- : MS Project

TRAINING COURSES AND CERTIFICATIONS

- : Condenser, water box vacuum pumps, El-Kureimat Training Center, BOC EDWARD COMPANY (one week).
- : Maintenance & operation for steam turbine, HITACHI Co. – El-Kureimat Training Center (Aug. 2009).
- : Water and waste water treatment systems maintenance, El-Kureimat Training Center, Metito Water Treatment LTD (Mar. 2009).
- : Maintenance for sludge screw pumps, NETZCH – H PUMPS – Germany (Nov. 2007).
- : Dosing pumps, mixers and drivers, solid pumps, chemical resistance pumps, OBL, ANTICO, VARISCO, SAVINO – Italy (Nov. 2007).

: English: TOEFL (ITP 500).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2024 till Apr. 2024
Employer : Baker Hughes / GE Oil & Gas
Project : GASCO – Raven Gas compressor, Egypt / ENNPI customer
Job Description :

- Motor / Compressor 2BCL 504.
- Foundation preparation and verification as per SQCL requirements.
- Anchor bolts positioning / installation as per required DWGS and SQCL.
- Sole plates and shimming of anchors before skid positioning.
- Motor / CECO skid positioning and orientation.
- Leveling /soft foot checking.
- Pre-alignment performing CECO/GBOX/Motor as per design specs.
- Final inspection with customer – signed off all reports.
- Support customer for installation activities and piping system.
- Support construction activities through supplying documents and drawings to support the work flow.
- Material handling of the project, 300 supplied boxes inspected and organized.

Dates : From Nov. 2023 till Dec. 2023
Employer : Baker Hughes / GE Oil & Gas
Project : Midor Unit 11 – Alexandria, Egypt
Job Description :

- Motor Compressor CECO 2MCL 507.
- Seal gas system start-up & commissioning.
- Start-up /adjustment Lube oil system.
- Start-up of motor compressor.
- Verification of operational parameters.
- 72 hrs reliability run test.

Dates : From Oct. 2023 till Nov. 2023
Employer : Baker Hughes / GE Oil & Gas
Project : Train D WGC – GASCO / ENNPI / Egypt
Job Description :

- HDGT MS5002 C+ CECO 2BCL506/C CE/Co.
- Gas turbine / CECO skids positioning and assembly leveling /shimming activities.
- Pre-alignment between couplings.
- Assembly of Filter house /exhaust/ventilation systems.
- Fuel gas skid / Accessory module installation.
- Inter-connecting piping assembly.

Employer : Baker Hughes / GE Oil & Gas
Project : Huwayia – LNG GAS PLANT / Saudi Arabia
Job Description :

- Steam turbine ST SAC 1-10.
- Turbine alignment checking verifying.
- Axial thrust adjusting verifying.
- Installing Bearing covers.

- Turning gear installation and checking.
- Gen/Coupling installing checking.

Commissioning phase:

- Execute commissioning activities for oil systems, control oil skid, jacking oil.
- Execute commissioning check list for trip valves, steam governors/ extraction valves.
- Prepare the ST for starting up.

Dates : From Apr. 2023 till May 2023
Employer : Baker Hughes / GE Oil & Gas
Project : Master Gas Boost Station I phase II – BGSP – Saudi Arabia / Client Aramco
Job Description :

- PCL 603 Centrifugal COMPRESSOR.
- Supporting compressor running during cleaning up run testing.
- Performing mechanical commissioning during ADGT Mapping, tuning activities.
- Support work execution of compressor PCL 603 during reliability, 72 hrs. running test.
- Compressor performance activity checking.
- Gathering and monitor all performance parameters from field and DCS, and reporting to engineering team for highly performance achievement.
- Support compressor anti surge tuning activities.

Dates : From Dec. 2022 till Feb. 2023
Employer : Baker Hughes / GE Oil & Gas
Project : Master Gas Boost Station I phase II – BGSP – Saudi Arabia / Client Aramco
Job Description :

- ADGT PGT25/LM2500.
- Performing Start-up / commissioning activities for ADGT.
- Execute Fuel gas commissioning activities.
- Supporting First fire scope with control / EI teams.
- Reporting the startup parameters, starting up recording data.
- Finalize all startup check list as per procedure.
- Keeping smooth and safely work flow during starting up.
- Supporting compressor running during cleaning up run testing.
- Performing mechanical commissioning during ADGT Mapping, tuning activities.
- Support work execution of compressor PCL 603 during reliability, 72 hrs. running test.

Dates : Nov. 2022
Employer : Baker Hughes / GE Oil & Gas
Project : Master Gas Boost Station I phase II – BGSP – Saudi Arabia / Client Aramco
Job Description :

- PCL 603 Centrifugal COMPRESSOR.
- Dry gas seal borescope inspection.
- Replacement of dry gas seal of the compressor.
- Seal gas skid commissioning / starting up.
- Compressor pressurizing / depressurizing checking and leak test.
- Compressor start-up, and running test.
- Performing all site quality check list as per BH design / requirement.

Dates	:	Aug. 2022
Employer	:	Baker Hughes / GE Oil & Gas
Project	:	Nasr phase I SAP 2 – Egypt – NCIC
Job Description	:	<ul style="list-style-type: none"> • Steam Turbine Thermodin. • Turbine shutdown inspection. • Bearing inspection. • Turbine governor. • Gear box, oil leakage. • Turbine glands inspection and fixing oil leakage.
Dates	:	From May 2022 till Jun. 2022
Employer	:	Baker Hughes / GE Oil & Gas
Project	:	Nasr Fertilization Complex – Egypt – NCIC
Job Description	:	<ul style="list-style-type: none"> • Steam Turbines SAC10/SAC14/SAC16 – Compressors 3MCL455/2MCL506 + 2BCL258/A/ 2BCL409/A + 2BCL359/A. • Performing pre-commissioning activities for Nuvopignion equipment. • Oil flushing for turbines and compressors. • Control oil pre-commissioning and start-up for the compressor trains. • Piping alignment checking of inlet outlet steam lines to the machines.
Dates	:	Mar. 2022
Employer	:	Baker Hughes / GE Oil & Gas / Client KIMA Aswan – Egypt
Project	:	KIMA for Chemical Industries – Aswan, Egypt
Job Description	:	<ul style="list-style-type: none"> • Steam turbine SC 1-3/SC 1-6. • Steam Turbine / Compressor shutdown. • Bearing inspection and replacement. • Thrust bearing replacement. • Barring gear inspection and repairing. • Buffering system to oil seal installation. • Bearing seals inspection and installation. • Extraction valve dismantling and Major services. • NRV check valve major.
Dates	:	Feb. 2022
Employer	:	Baker Hughes / GE Oil & Gas / Client ENOC Dubai
Project	:	ENOC – Emirate National Oil Co. Dubai Steam turbine / Centrifugal compressor shutdown
Job Description	:	<ul style="list-style-type: none"> • Steam Turbine SC 1-8. • Bearing inspection. • MI for turbine. • Extraction valve major services. • Alignment checking and verification.
Dates	:	From Nov. 2021 till Dec. 2021
Employer	:	Baker Hughes / GE Oil & Gas
Project	:	IBN Zahr, Petrochemical MTBE 1 / Saudi Arabia

Job Description	:	<ul style="list-style-type: none"> Compressor MCL 601 / Gas Turbine F5002C/ST Barring gear DA21. Compressor major overhaul, Nuvopignion MCL601. CI for gas turbine unit frame F5002C. Borecope inspection, Turbine /compressor stages. Overhaul, Barring gear STG, type DA21.
Dates	:	Oct. 2021
Employer	:	Pangea
Project	:	South Cairo Power Plant
Job Description	:	<ul style="list-style-type: none"> Gas Turbine 9E GE / Generator. Major Inspection of Generator / Gas Turbine / compressor sections. Generator rotor extraction, bearings removal, inspection of all components.
Dates	:	From Jul. 2021 till Oct. 2021
Employer	:	Baker Hughes / GE Oil & Gas
Project	:	Nasr Fertilization Complex – Egypt – NCIC
Job Description	:	<ul style="list-style-type: none"> Steam Turbines SAC10/SAC14/SAC16 – Compressors 3MCL455/2MCL506 + 2BCL258/A/ 2BCL409/A + 2BCL359/A. Steam Turbine / Compressors positioning, alignment, installation. Rotor centering, field measurements, reports. Site check lists SQCL performing, as per protocol. Material managements, checking, handling. Providing supports to construction team of customers, to achieving activities safely and in high quality. Performing turbine / compressor trains alignment using Lazer tool and dial gauges. Issuing field services reports to engineering.
Dates	:	From Jan. 2021 till Apr. 2021
Employer	:	Baker Hughes / GE Oil & Gas
Project	:	Master Gas Plant / Saudi Arabia – Aramco (client)
Job title	:	PG25 Technical Field Advisor
Job Description	:	<ul style="list-style-type: none"> Installation of Reciprocating Compressor units and gas turbine LM2500. Bearing disassembly / assembly. Gas generator and inlet gear box disassembly and inspection. Leading maintenance team to achieve the required target in short time. Preparing and submitting maintenance reports as per GE standards.
Dates	:	Oct. 2020
Employer	:	Baker Hughes / KIMA / Texel
Project	:	Petrochemical Project / NH3 / PAC / STG Project, Aswan – Egypt
Job title	:	TFA Steam Turbine / Generator
Job Description	:	<ul style="list-style-type: none"> Dismantling and inspection of turbine seals / Labyrinth. Packing clearance checking. Oil deflector inspection. Assembly / disassembly of bearing covers, internals rings.

- Bearing Babbitt inspection.
- Checking seal strips and replacement if required.
- Preparing field reports for approval by client / vendors.
- HP/LP steam control valves disassembly, inspection, refurbishments, re-assembly.
- Gas Compressor outage, maintenance, rotor removal for inspection, blades replacement

Dates : From Jul. 2018 till Jul. 2019

Employer : Shanahan Engineering, KSA

Project : PP14 Combined Cycle Power Project, GE 7FA Gas Turbines (6), KSA

Job title : Lead Field Mechanical Maintenance Engineer

Job Description :

- Equipment and rotating machines overhaul maintenance.
- Preparing the services reports of the plant.
- Performing pumps alignment.
- Assembly / disassembly of turbine casing /rotor/bearing.
- Boroscopic inspection of turbines internal parts.
- Performing the periodic maintenance activities as per manuals.
- Perform a Testing and Commissioning Plan, Method Statements, Testing and Commissioning Procedures, Testing and Commissioning Reports.
- Leading initial commissioning walk down as per approved design drawing for the plant systems and issuing punch lists and categorizing.
- Checking systems actual performance during first actual running as per design and system demands.
- Preparing PTW/LOTO documents for the systems prior start-up.
- Reviewing the test packages and Mechanical Completion Certificates before handing over to the commissioning phase.
- Complete commissioning activities of RO filtration system, Multimedia filtration system, and chemical dosing / Metering pumps.
- Testing of the RO process in the water treatment plant.

Dates : From Dec. 2012 till Apr. 2018

Employer : Arabian BEMCO Contracting Co.

Projects : PP10 / QASSIM / Qurayyah CCGT, KSA

Job title : Outage Shift Engineer

Job Description :

- Leading maintenance team to perform the outage activities of Gas turbine in one shift.
- Performing maintenance activities of Gas turbines frame GE7FA.
- Steam Turbines internal parts Disassembly / assembly.
- Stop and control valves maintenance.
- Centrifugal /multistage pumps overall maintenance.
- Alignment of the rotating equipment.
- Issuing technical and field reports.
- Coordination with vendor TA's.
- Bearing clearances checking and field measurements.
- Refurbishments of the internal parts.
- Air compressor blades maintenance.

Dates : From May 2010 till Sep. 2012
Employer : Kharafi National Company – KUWAIT
Project : 2000MW SABBYIA Combined Cycle PP (6 units - GE 9FA), Kuwait
Job title : Lead Field Mechanical Maintenance Engineer
Job Description :

- Supervision for gas turbine construction with Auxiliaries.
- GT Alignment & Leveling activities.
- Issuance the construction, manpower, equipment, erection certificates, and punch lists' reports.
- Provided assistance and support to the operating units of the organization.
- Gas turbine start-up tests including over speed protection tests, units tuning, performance tests, fuel change over tests, equipment transfer tests, minimum stable load tests, emissions tests, reliability test..
- Perform gas turbine performance tests to check the guarantee points and design conditions.

Dates : From Dec. 2004 till Apr. 2010
Employer : Upper Egypt Electricity Production Company (UEEPC)
Project : El-Kureimat Combined Cycle Power Plant (1500MW) (GE 9FA Gas Turbines)
Job title : Lead Field Mechanical Maintenance Engineer
Job Description :

- Hot gas path inspection for gas turbine unit SIEMENS V 94.3A2
- Shift Engineer for 2x250MW gas turbine combustion inspections (GE9FA).
- Performing preventive maintenance as per schedule.
- 650MW steam turbine overall maintenance in phase I.
- Turbine shell removing.
- Rotor disassembly and sandblasting.
- Bearings internal rings / casings disassembly, re-checking.
- Condensate and feedwater pumps overall maintenance.
- Generator bearing / seals inspection.

Dates : From Mar. 2003 till Dec. 2004
Employer : Ministry of Irrigation – Egypt
Job title : Mechanical Maintenance Engineer (water & pump station)
Job Description :

- Perform periodic and routine maintenance for centrifugal pumps.
- Major and overall maintenance for pumps and auxiliaries.
- Familiar with pumps selection based on the site conditions and design.
- Analysis for pumps system proposal from vendors and companies.

Dates : From Jan. 2002 till Mar. 2003
Employer : Egyptian Army
Project : Military Service

Field of experience :

- Commissioning of Large-scale Power Plants, of capacities more than 1000MW.
- Gas turbine construction of different capacities and models, GE9FA, GE7FA, SIEMENS V94.3A2.

- Enthusiastic and experienced in overseas travel and Gulf area, Kuwait, Saudi Arabia.
- Maintenance of gas & steam turbine machines during periodic or overall maintenance, CI, HGPI, and O&M.
- HRSG's construction and design drawing reviewing, pre-commissioning.
- Construction of water treatments plants including Demin, waste, and potable water plants.
- Managing the construction process including manpower, subcontractors, equipment, and schedule, to achieve the target within time and high safety and quality.