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Mechanical Supervisor -Rotating

OBJECTIVES

To carryout maintenance, Condition Monitoring & inspection of rotating& Static equipment, prepare & perform planned/ unplanned activities, develop technical analysis / repair methods in case of equipment failure. Calibrate & keep record of maintenance, Condition Monitoring & inspection tools, make technical communication with vendors / contractors & develop Condition monitoring procedures.

SUMMARY

12 years experience in Fertilizer, Power ,Oil & Gas sector on wide range aspect of Rotating & Static Equipment including witness testing, inspection, installation, commissioning, start-up, maintenance and troubleshooting.

My core responsibilities are Maintenance, Overhauling, Condition monitoring & inspection Rotating & static equipments. Like PM, CM, PDM, Vibration Analysis, Thermography, Lube oil Analysis Laser alignment, Cathodic Protection of Tanks, Vessels, pipeline & wellheads.

EDUCATION

1 - PRESTON UNIVERSITY - KOHAT 2014

Bachelor of Technology (MechanicalTechnology)

2 - GOVT. INSTITUTE OF TECHNOLOGY RAHIM YAR KHAN 2006

Diploma of Associate Engineer (DAE) Mechanical

EXPERIENCE

1- Sr. Mechanical Technician | MOL PAKISTAN OIL & GAS Co.B.V. JUNE -2012 – PRESENT

- Recently working with MOL PAKISTAN OIL & GAS CO.B.V.At Central Processing Facility (Capacity 300 MMSCFD) as **Sr. Mechanical /Inspection Technician**. My core responsibilities to provide Maintenance , overhauling & supervision of Rotating & Static equipment section.
- Supervise, coordinate and participate in the Predictive, preventive, corrective and troubleshooting maintenance activities of the plant equipment at the assigned location.
- Participate in the planning, scheduling and execution of shutdown and major overhaul maintenance activities.
- Assist the Senior Engineer in establishing priorities, making improvements on work methods and to participate in evaluating modification proposals, failure analysis and unscheduled shutdowns.
- Prepare the list of spares, tools and other material required for the maintenance jobs and issue the Purchase/Material requisitions for the Section Head approval.
- Evaluate equipment performance problems and to suggest modification / available new technology to reduce overall maintenance cost.
- Direct and participate in performing Condition Monitoring & Inspection of Rotating & Static equipment and advice on the maintenance schedule based on the analysis.
- Interface and coordinate with other sections in sorting out equipment problems and maintenance activities.
- Update the equipment Data, History and Maintenance records in 'CMMS' system.
- Prepare the Appraisal Annual Training budget and manage spending for Junior Technicians.
- Train the junior technicians on site demonstration.

2-Technician GTP | GAS TREATMENT PLANT TNB LIBERTY POWER LTD. MAY - 2011 TO JUN - 2012

- My job description was to direct Liaison with O & M contractor at Gas Treatment plant inclusive two brake valve stations & 28 KM gas pipeline /vendors, suppliers & services providers.
- compile & study plant defects
- To monitor & supervise contracts & O & M contractor.
- Cathodic Protection CP survey of gas Pipe line, Fire water & fuel tanks.
- DCVG Surveys of Underground Pipeline for Coating defects on above ground.
- Supervise high quality machinery condition monitoring data collection of the Rotating Equipment Section, for a broad range of complex equipment.
- Carrying out Mechanical maintenance, repair and overhaul of a variety of plant equipment
- Supervision of overhauling of centrifugal pumps like GE, Weir Gabbioneta KSB ,Flowserve, Ingersol
- Dresser Rand, Worthington, Gould's & Ebara at miscellaneous services like Boiler Feed water system,
- Fire water, liquid urea, Ammonia, Condensate etc.

3-Machinery Technician | ENGRO FERTILIZER LTD.FEB- 2007 MAY - 2011

Worked with Engro Fertilizer Ltd. formerly known as Engro Chemical Pakistan Ltd. enVen1.3 Fertilizer Expansion Project–World's Largest Single Train-Ammonia and Urea Project; 2200 MTPD Ammonia Plant/HaldorTopsoe, 3835 MTPD Urea Plant/ Snamprogetti, Daharki-PAKISTAN as at Machinery Technician-II from 2007 to 2011.

Apprentice Ship Training from ENGRO CHEMICAL PAKISTAN LTD Daharki from Feb, 01, 2007 to Jan, 31, 2009

Worked as Compressor House Machinery Technician with GE (General Electric) field service representative. April, 2009 to May, 2010 at ENGRO Fertilizer Ltd,Daharki,Pakistan Working Experience of GE NuovoPignone S.p.A Italy Manufactured Gas Compressors.

NH3 Gas compressor 2MCL 457 (NuovoPignone) SYNTHISIS.Gas.compressor.2BCL.609, 2BCL.459 (Nuovo.Pignone), CO2 Gas compressor 2MCL 606,2BCL 306 (Nuovo.Pignone)

MECHANICAL MAINTENANCE EXPERIENCE

Having Preventive, Predictive / Troubleshooting and Breakdown maintenance handling skills on Following Crude Products processing Systems of oil & gas;

COMPRESSORS:- API-617,618,619

Complete overhauling of single / mulch stages centrifugal and reciprocating compressors (Dresser-Rand ,GE (NuovoPignone), Clark, Cooper Bessemer, Innersole-Rand, and Petter Brother Hood.

Natural Gas Booster Compressor Restaging Crank shaft replacement job of CO2 Compressor.

GENERAL PURPOSE STEAM TURBINE:- API - 611

Complete overhauling of single / multi stages AYR, BYR, CYR, DYR, Steam Turbine (Manufacturer) General Electric, and Elliott Wasting House.

SPECIAL PURPOSE STEAM TURBINE:- API - 612

Complete overhauling of single / multi stages Steam Turbine (Manufacturer) General Electric(37000 HP)

Syn- Compressor Steam Turbine Overhauling

FRAME 5 GAS TERBINE:-(G E) API - 616

Hot gas path inspection of G.E frame-5 model M Gas turbine.

Overall gas turbine inspection of G.E Frame 5 Gas turbine

PUMPS:- API-610,674,675

Complete overhauling of single / multi stages Centrifugal pumps (Ebara, sundyne, Union Gould, Pacific, Worthington, KSB, Bingham)

Complete overhauling of single / multi stages reciprocating pumps (Uracu, Milton Roy ,Aldrich, ingersoll-Rand,

BLOWERS:- API-673

Complete overhauling of all types of blowers (centrifugal, rotary).

GEAR BOX:- API-677

Complete overhauling of following Companies.

Western, Marley, Lufkin, Win Smith, Falk, Dodge Louis Allis.

ALIGNMENT:- I am aware of alignment of different method.

- 1- Rim and face method
- 2- Reverse indicator method
- 3- Laser Alignment method (Rot align-pro) Pruftechni& ALIGNO (Germany)

SHAFT SEAL:- API-682

Maintenance disassembling & assembling repair of all types of Shaft seals.

CONDITION MONITORING EXPERIENCE

- Having hands on experience on condition monitoring like, Mechanical Test run of Steam Turbine driven compressors, over speed testing of Steam Turbines, Motor driven Reciprocating/Centrifugal /screw Compressors, Blowers and Pumps and Record all the various parameters such as Vibration, Temperature, Noise, Flow and Pressure etc..
- Steam Turbine ,Gas Turbine and Motor solo run and recording all parameters.
- Prepare Daily / weekly / Fortnightly / Monthly /Bimonthly Schedule for Condition Monitoring
- Pre Mechanical Commissioning and Commissioning of Rotating equipments Auxiliary systems such as Lube oil system commissioning, All Functional Tests etc.
- Software Installation , Registration, Database Creation, Editing ,Rout Configuration & Editing
- Data collection , Data Loading & Dumping,
- Diagnostic plotting, Spectrum & waveform analysis, Cross phase analysis
- Document & reporting Handling of CSi 2130 Hardware & Software
- Perform Infrared Thermal imaging at various Plant equipments.
- Sample collection of lube oils to send it to Third Party laboratory for oil analysis .
- Rim & Face, Reverse indicator method & Laser alignment Using (Pruftechnic ALIGNO, Easy laser,)
- Abnormal sound Analysis Using (Stethoscope)
- Carry out daily inspection and predictive maintenance checks on rotating machinery such as compressors, pumps, gas turbines, and blowers, motor as defined by computer maintenance management systems. (Maximo & MP-2), attending other abnormalities being raised by Operations.
- Perform condition monitoring by checking by vibration, temperature, pressure. Checking oil

levels & flow and reporting to condition monitoring Engineer when readings are out side tolerable limits.

- Daily review and check the online vibration monitoring systems (Bently Nevada system-3300,3500) for critical machinery for abnormalities and reporting exception to condition monitoring Engineer. Maintaining /updating of rotating equipments.

COMMISSIONING AND STARTUP EXPERIENCE

- Review the pre-commissioning and commissioning procedures for all rotary and reciprocating equipment, Develop new or review the existing inspection forms for the pre-commissioning and commissioning activities pertaining to Machinery activities.
- Monitor and ensure the activities are carried out as per schedule and in accordance with the procedures and requirements;
- Mobilization of Vendors specialists. Supervise the works of vendors' specialists and ensure their efficient utilization.
- Manage the manpower made available from the Sub Contractors; Ensure availability of commissioning spares and consumables for the execution of activities Witnessed inspection on Final shaft coupling alignment.
- Surveillance inspection on Lube oil flushing activities and final inspection API Standard
- Witnessed inspection on Orientation, centering & leveling of Pump, Compressor, and Lube Oil Skid as per specification & Standard API.
- Installation of Rotating Equipments Like Pumps, Centrifugal Compressor , Reciprocating Compressor , Gas Turbine, Steam Turbine as per Project specification and API 686 standard .
- Co-ordination with vendors for testing inspection witnessed

PROJECT

- Successful installation, commissioning& startup of 05 wellheads CP systems for wellhead casing. 2- Successful installation, commissioning & startup of 158 MMSCFD Gas Processing Facility GPF (LPG, Condensate Oil & Gas) a Project of MOL Pakistan Oil & Gas Co. B .V.In February 2014 without any major Machinery (180 Machines) Issues.
- Successful Installation, Commissioning & Startup of even 1.3 Fertilizer Expansion (Project of engro fertilizer Ltd.) in December 2010 without any machinery (250Machines) Issues.
- Thickness Monitoring Survey 2012, Manzalai Central Processing Facility (Thickness reading was recorded at 2666 locations on pipelines and 857 locations on pressure vessels at Manzalai CPF. Using these readings corrosion rate and MAWP was determined in accordance with ASME31.3, API-570 & API 510.)

CERTIFICATION / TRAINING & PROCEDURES

- **Vibration Analysis Level-2 ISO 18436-2 ASNT ISO Cat-III from Mobius institute.**
- ASNT Ultrasonic Testing (UT) Level-2
- Basic of Vibration & CSI- 2130 System User Training from Emerson
- Basics of Oil Analysis Course
- Familiar CMMS Maximo & MP-2
- Theoretical and skill development trainings on API series, centrifugal & PD pumps, Valves, Heat Exchangers, Steam turbines, Gas turbine, Process control Instrumentation, centrifugal compressor, P&ID and PFD, etc.
- Qualified JQP (job qualifying program).
- Fluent in written & spoken English. (English Language Course From Engro Chemical Pakistan)
- Effective Communication & Presentations Skills Training.
- Operation, Maintenance & Troubleshooting of Valves, PSVs, Pumps & Compressors training from FFC

HSE

- Attend tool box safety meetings, H2S Management
- Process safety & risk management (PSRM), Personnel safety management (PSM)
- Safety Excellence Management System (SEMS), Pre Startup Safety Review (PSSR)
- Process hazards analysis (PHA), Job Safety Analysis (JSA)
- First Aid Training , Life Saving Rules (LSR)
- 5S safety Program, locked out and tag out (LOTO) , Permit to Work (PTW)
- Confined Space Entry Protocols, Firefighting, prevention & control

PERSONAL DETAILS

Passport # XT1156062	D.O.B: March 05th , 1988 Age: 30 Years Marital Status: Married	References: will be Provide upon request.
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