

Melanie Gropp

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Objective

Project Quality Assurance Inspection assignments that utilize my skills in Mechanical, Structural and Electrically engineered equipment including gas turbine generators and compressors, large packaged gear, Solar Facilities, cryogenic & centrifugal pumps, vessels, exchangers, a full range of valves, skid packages, ammonia and hydrolyser equipment.

Work Experience

Quality Assurance Inspector

12/2007 – Present: [Oceanfront Engineering Inc.-Oceanside, California](#)

- Primary functions as a Quality Assurance Inspector are to perform highly detailed and thorough inspections for major equipment operations and interface with Oceanfront Engineering, Quality Assurance Engineers and Client personnel as well as vendor manufacturing companies. Clients include: US Army, Oceanfront Engineering, US Navy, Shell, NOV Varco, Samsung, BP, Chevron, Tecnimont, Exxon Mobile, Aramco and several other fortune 500 companies. Vendor companies include: LA Turbines, Solar Turbines including: Saturn, Centaur, Mercury & Taurus Single Shaft Turbine Packages. Also Titan & Mars two Shaft Turbine Packages. TMT Laboratories including: Reeling test, Flex Fatigue testing, Tensile test as well as thorough Umbilical Dissection Analysis. Flowserve Pumps, Vantage Vehicle International Military Vehicles, Gould Pumps, Capstone Turbines, Cryoquip, Control Components Velocity Control Valves (CCI) including: Performance testing, Hydrostatic testing, Seat testing as well as dimensional check. Creative Tents, Stang Instruments, General Monitors, Rohrback Cosasco Systems: Corrosion Monitoring Systems. Avenal Solar Facility: Detailed Solar Panel Inspections. Chicks Packaging, Fluid Components, Southgate Engineering, Kobelco Compressors (KEC), Carter Cryogenics in depth Cryogenic Pump inspections, Bardex Offshore Hydraulic Load Handling Systems, Barbee Test Equipment, MAG International Military Vehicles, McCrometer Liquid and Gas Flowmeters, Mycom, Survival Systems, Wahlco Combined Cycle Gas Turbines, Atlas Copco/Mafi-Trench Corp. Turbo Expander Packages. Special projects at Ebara Pumps on Cryogenic pumps, Liquefied Natural gas pumps, Propylene & Methanol pumps. Testing and inspection on these major Ebara projects include: Radiographic and NDT testing, Polarization testing, Rotor bar continuity check, Shaft Stabilization check, Impeller/Inducer Balance, Helium Leak testing, Insulation Resistance testing, Tensile testing, Welding Inspections, Witness & Review of PMI, Shaft/Rotor Assembly balance, Disassembly Visual/Dimensional check, thorough fabrication verifications, Impact testing of base materials, Mag Particle testing, Ultrasonic testing of forgings and thorough electrical/mechanical testing. Also specializing in valve projects with vendors including: CLA-Val, Southern California Valve, SVF Valve, Western Valve, DHV Valve, Crane Pacific Valves. Some valve testing includes: Hydrostatic testing, Seal Leak test upstream and downstream, performance testing & dimensional check.

SPECIAL AREAS INVOLVED

- Witness Factory Acceptance testing, troubleshooting as well as third party surveillance activities for assorted oil and gas equipment including Gas Turbines (Titan, Mars, Taurus), Kobelco & Rohrbach Cosasco Systems, Ebara Pump Cryogenic Pumps, Atlas Copco (Mafi-Trench Corp.), LA Turbines, Avenal Solar Facility, Various Valve Manufactures, Mycom Compressors and various API-610, 10th edition centrifugal pumps from numerous vendors including Gould Pumps & Flowserve Pumps.
- Types of Testing Experienced: Turbine Engine Performance, Functional & Over-speed tests, Closed Loop, String testing, Compressor Performance, Gas Detection testing, Unit enclosure testing, Corrosion Monitoring System testing, Aerodynamic tests, Vibration Spectrum analysis Hydrostatic and Operations/Maintenance for Turbines & Compressors, Shaft Balancing & Rotor Run-out, Electrical Loop testing as well as NDE & Liquid Penetrant tests.

Marketing Engineer and Administrative Manager

2/2004 – 11/2007: [Don Prudhomme Racing Team-Vista, California](#)

- Perform expediting functions to enhance delivery of engines, transmissions, car bodies, blowers, gear works, tires, wheels, bearings, racing fuel, intake and exhaust manifolds and other components to ensure timely racing engagements. Contact numerous prime and sub-vendors of major components and special materials required for highly technical racing operations. Expedited machine shops, supply houses and direct and indirect racing team organizations.
- Developed new strategies and operational enhancement for all aspects of the Drag racing team. Worked on business development, merchandizing and inventory control of major parts and equipment utilized in the racing market.
- Performed numerous managerial and office functions including data entry, fan mail and marketing promotions, shipping and receiving and follow-up on critical path orders and racing team operations.

Customer Service and Marketing Manager

9/2000 – 2/2004: [X-Cel Contacts-Vista, California](#)

- Responsible for sales and promotional aspects of the contact lens design market and assisting doctors in development of designs as required.
- Data and document entry, order processing, procurement, shipping and receiving and training of new personnel were key operations engaged in.
- Assisted doctors in expediting of orders and follow-up with manufacturer's to ensure timely delivery of materials.

Education

1997-2000: White Pines High School-Ely, Nevada

- College Coursework Completed toward AS Degree Engineering
- Advanced Math and Science
- Certificate in Customer Service and Management Course

Skills

QA inspections and testing for high profile manufacturer's , Military and vendors to ensure the highest quality materials with a speedy turn-around on heavy duty equipment. Expediting "Critical Path" projects to maintain schedule performance and to ensure coordination between the client, engineering and the manufacturer's representatives is paramount. Knowledge of BioMechanics, Accident Re-construction formulas as well as failure analysis for Forensic/Expert Witness needs while working closely with Forensic Analyst and Attorneys.