

**EXPERIENCE****BRG MACHINERY CONSULTING, LLC**, Charlottesville, VA*Machinery Specialist, 2003 - Present*

Work with a group of highly qualified machinery specialists in providing a full range of rotating machinery management services. Actively involved in providing machinery expertise in the following areas:

- Mechanical integrity and process safety management assessments
- Failure analysis and redesign
- Inspection of major rotating equipment rebuilds
- Monitoring and inspecting the manufacture of new major rotating equipment
- Shop and field testing
- Technical support to field maintenance personnel
- Training of operations and maintenance personnel

**MOBIL TECHNOLOGY COMPANY**, Princeton and Paulsboro, NJ*Turbo Machinery Specialist, 1994-2000*

Provided machinery expertise to Mobil affiliates worldwide. Assisted operating plants in all facets of machinery management, including performance and reliability improvements, as well as troubleshooting and failure analysis. For new plants and facilities, responsible for all machinery from design and specification to installation and commissioning. Representative roles included:

- Assignment to the Qatargas LNG Plant project, a joint venture project between Mobil and the Qatar government, as the inspector of all mechanical, electrical, and instrumentation systems for five complete industrial Frame 6 gas turbine generator sets. Monitored the machining, assembly and testing of all gas turbines at Thomassen International BV facilities in Velp, Holland. Followed the testing of all the project's major rotating equipment throughout Europe and the United States, with particular attention to the manufacture and assembly of the gas turbine rotors at General Electric's Greenville facility.
- Assistance at several facilities with planning and executing major turnaround outages and new unit start-ups.
- Leading the development of a corporate-wide rotating equipment health monitoring system. State-of-the-art technology was incorporated to provide operators with real time process and vibration data simultaneously. In conjunction, guided the development and implementation of an expert system computer program to diagnosis a machine's condition using this blend of vibration and process information. This expert system provided operations and maintenance personnel with possible corrective scenarios to improve health and avoid failure.

**MOBIL OIL CORPORATION**, Paulsboro Refinery, Paulsboro, NJ*Reliability Supervisor, 1988-1994*

Led group of engineers and equipment specialists responsible for the reliability improvement of a 150,000 barrel-per-day refinery's rotating and electrical equipment. Group functioned as refinery's primary expertise in capital project, process enhancement, root cause failure analysis, and troubleshooting efforts. Responsible for the installation, startup and training for all the rotating equipment associated with a grass roots 60 MW COGEN unit, which included the budget & schedule.

**PEMREF Refinery**, Yanbu, Saudi Arabia*Reliability Supervisor, 1982-1988*

Assigned to a joint venture between the Saudi Arabian government and Mobil to construct and operate a 250,000 barrel-per-day grass roots refinery. Responsible for all installation inspection and acceptance of the equipment during the construction phase of this facility. Responsible for all rotating equipment reliability, problem analysis, and operator training during the commissioning and first four years of operation.

**MOBIL OIL CORPORATION**, Joliet Refinery, Joliet, IL  
*Reliability Supervisor, 1974-1982*

Responsible for machinery condition monitoring, analysis, and all machinery overhauls and procedures. Developed, implemented, and managed all machinery preventive and predictive maintenance programs. Assessed failure trends and indices to determine and implement equipment design, procedural, and craft or operational training improvements.

**MOBIL OIL CORPORATION**, Joliet Refinery, Joliet, IL  
*Shop and Field Machinist, 1972-1974*

Assisted with the commissioning and maintenance of all rotating equipment for this new grass roots (165,000 barrel-per-day) facility. Provided training to new machinists during the first skill level requirements.

**PROFESSIONAL ACTIVITIES**

Member, Vibration Institute