



MICHoud

ASSEMBLY FACILITY

Laboratories

The laboratories at MAF are uniquely equipped with the latest advanced equipment and skills for testing large structures, components, and full-scale hardware. These key technology laboratories offer a variety of support services from analytical chemistry, materials and process testing, metallurgy, metrology and research and development.



Full Service Materials and Process Laboratory

- AS9100 C Quality System
- ISO 17025 Compliant

Analytical Chemistry

- Material fingerprinting
- Failure analysis
- Material identification
- Receiving Acceptance testing

Materials and Process Testing

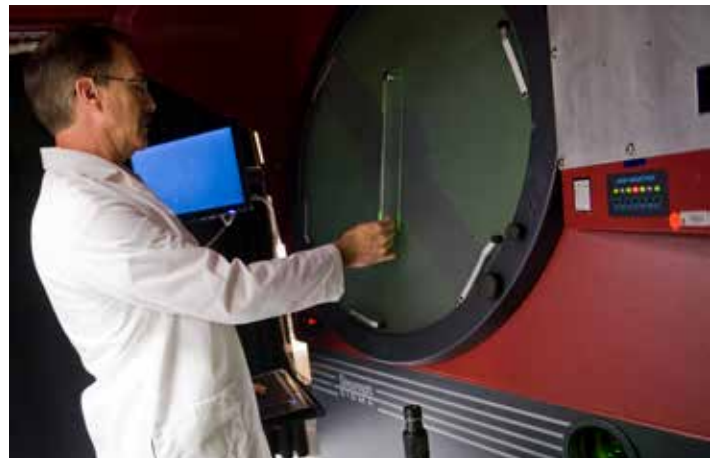
- Receiving Acceptance testing
- Physical testing
- Wet Chemistry
- Organic/inorganic process analysis
- Contamination identification
- Non-destructive evaluation

Metallurgy

- Failure analysis
- Microstructure evaluation
- Plating type and thickness
- Full Service Metrology Laboratory
- AS9100 C Quality System
- Compliant to ANSI Z540.1

Calibration Capabilities:

- Alternating and Direct Current
 - Low frequency to 1000v
 - Resistance from 0.001 ohm to 1 Tohm
- Dimensional
 - Angular, Basic hands tools
 - ID and OD length to 10 millionths up to 80 in.
 - Steel Tapes (unlimited circumference and linear) with laser measurement accuracy
- Mass, Force, Torque
 - Mass: micrograms up to 2000 lbs.
 - Force: up to 300,000 lbs. (load cells, dynamometers)
 - Torque: 2 in. lbs. up to 1000 ft. lbs.
- Pressure
 - Absolute through 20k PSI
- Thermodynamic
- Optical Tooling
 - Transits, levels, theodolites
- Gas Flow
 - Automated calibrations from 2 sccm to 80 cfm



National Aeronautics and Space Administration

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