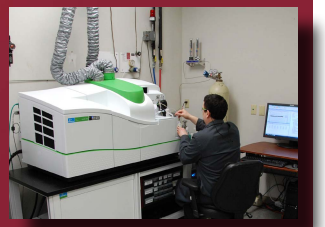
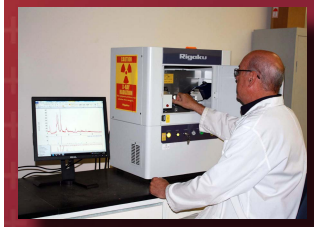
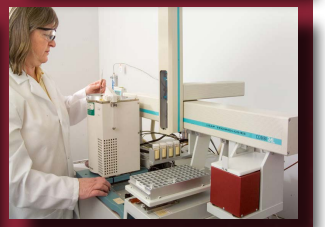
Chemical Analysis

- Alloy Chemistry
- Trace Element Analysis
- Cleanliness Testing (Internal, External)
- Positive Material Identification (PMI)
- Nonmetallic Material Confirmation
- Contaminant Analysis
- Plating Analysis
- OES
- ICP-AES
- ICP-MS Trace Element Analysis
- XRD
- XRF







Corrosion Testing

We can identify corrodents and other environmental variables that are directly responsible for corrosion attack. We have a history of addressing complicated corrosion issues including stress corrosion cracking, environmental stress cracking, and many other mechanisms.

- Corrosion Failure Analysis
- Electrochemical Corrosion Simulation
- Slow Strain Rate
- Corrodent Identification

Not just data, *knowledge*

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IMR Test Labs

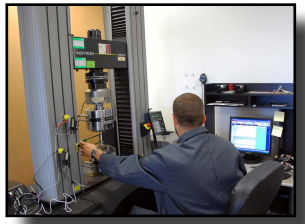
A Curtiss-Wright Business

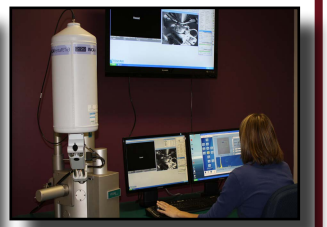
Analytical Services for the Nuclear Power Industry

Not just data, *knowledge*

Mechanical Testing

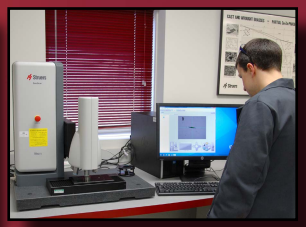
Fracture Mechanics Testing
Tensile/High Temperature Tensile
Hardness (Brinell, Rockwell)
Fatigue (LCF, HCF, RBF)
Creep and Stress Rupture
Impact Testing
Torsion
Bend Testing (including wraparound)
Resistance Weld Peel Testing
Full In-House Machining Capabilities





Metallurgical & Failure Analysis

AWS Certified Weld Inspection
Macroetch
Microhardness (Weld, HAZ, Base Metal)
Failure Analysis
Defect Detection
Cross Sectional Analysis
Braze Procedure/Process Analysis



Why IMR?

We can assist you in qualifying your commercial parts and materials to meet the critical characteristics for the nuclear power industry.

At IMR Test Labs, we have the equipment, certifications, analytical techniques and a knowledgeable staff to help you.

This also includes a quality assurance program in compliance with 10CFR50 Appendix B, 10CFR Part 21, ASME III Subsection NCA 3800, ASME NQA-1 and ISO 17025. Our facilities have also been audited by NIAC member companies.

We regularly serve dozens of NQA-1 customers and have performed commercial grade dedication work on many materials including polymers, metallic materials, composites and specialty alloys.

At IMR Test Labs we are accessible and responsive. We understand that you need the right answer, on time.

We are technical professionals, with all of the requisite qualifications and accreditations. Our analytical reports are comprehensive and written in understandable terms.

We strive to create long term working relationships and would like to earn your business.

Accreditations

We are compliant with the relevant sections of the following:

ISO 17025
ASME NQA-1
10CFR50 Appendix B
ASME III Subsection NCA 3800
10CFR Part 21
NIAC Approved