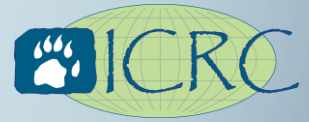


MATERIALS TESTING FOR AEROSPACE ENVIRONMENTS

Customer: National Aeronautics and Space Administration (NASA),
Marshall Space Flight Center (MSFC)



- Research & Development
- Advanced Materials Testing
- Propulsion Systems Work
- Test Database Management
- Commercial Customer Development
- Zero Lost Time Injury Record for over 500,000 Labor Hours

Project Definition and Objective

Under the Materials Testing for Aerospace Environments (MTAE) contract, ICRC directly supports materials and components testing for the International Space Station, the Space Shuttle, and other NASA space environments and propulsion requirements. We have supported a wide range of advanced materials testing, space environmental effects testing, test database management, science programs,

technical librarian, design drafting, special tools support, and propulsion systems work. The ICRC team unveiled a one of a kind heated promoted-combustion testing system for use in experiments on the flammability of metals in pure oxygen. The capability was developed to support the advancement of new spacecraft propulsion systems and the test chamber is the only one of its type in the world.

Our contributions at MSFC have been recognized by the customer through presentation of numerous group and individual achievement awards. Two of ICRC's employees have been awarded the prestigious NASA Public Service Medal for their outstanding technical contributions, we received two Director's Awards, earned a Level I Safety Performance Evaluation, and maintained a zero Lost Time Injury Record for the entire term of the contract, achieving 500,000 labor hours of safe operations. In addition, ICRC received excellent ratings and 100 percent of technical performance fee on interim evaluations for all five years of the MTAE contract. As a partner with NASA, ICRC brought significant commercial work to the MSFC. We completed over 90 different testing scenarios for more than 30 commercial customers resulting in over \$1,500,000 in labor offset costs to the MSFC MTAE contract.

Tasks

At the MSFC, ICRC is involved in supporting many aspects of research and testing of several space shuttle components. Tasks include:

- Supporting a wide range of MSFC operations, specifically:
 - Advanced materials testing
 - Space environmental effects testing
 - Test database management
 - Science programs
 - Technical library
 - Design drafting
 - Special tools support
 - Propulsion systems work
- Developing new oxygen testing components and procedures that allow expanded test capability and improved test confidence.
- Unveiling a promoted-combustion testing system for use in experiments on the flammability of metals in pure oxygen. This system was developed to support spacecraft propulsion advancements.
- Offering MSFC testing facilities to commercial customers, thereby enabling the Center to maintain and enhance its capabilities, sustain its workforce, and control costs.

ICRC Services

Construction & Construction Management Services

- Project Management
- Project Design, Procurement, Construction and Commissioning Phase Services
- Construction and Value Engineering

Professional Technical Services

- Program and Project Management
- Engineering and Design Management
- Health, Safety and Environmental Management
- Quality Assurance / Quality Control
- Construction Support, On-Site Services

Aerospace Engineering Services

- Design Services
- Materials Research and Testing
- Research and Development
- Compatibility Testing

Contact Us

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Materials Testing

MATERIALS TESTING FOR AEROSPACE ENVIRONMENTS

Customer: National Aeronautics and Space Administration (NASA),
Marshall Space Flight Center (MSFC)

Results

Through offering MSFC facilities to commercial customers, we perfected a system of planning and scheduling that maintained technicians' skills, kept MSFC facilities exercised, lowered operational costs and provided world-class testing facilities and services otherwise not available to commercial companies. In addition, ICRC:

- Successfully prevented significant layoffs through innovative scheduling, budget adjustments and limited labor adjustments.
 - Provided a seamless phase-in: re-badging, company processing, and briefings were accomplished over a two-day period with minimal impact to the overall workday.
 - Accurately priced several modifications to the MTAE contract.
 - Under ran target costs by a significant margin for every year of the contract.
 - Received a Level I Safety Performance Evaluation.
 - Maintained a zero Lost Time Injury Record for the entire term of the contract, achieving 500,000 labor hours of safe operations.
 - Received several group and individual achievement awards, two Director's Awards and the prestigious NASA Public Service Medal for outstanding technical contributions.
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