

RETURN TO FLIGHT TESTING FOR AEROSPACE ENVIRONMENTS AT NASA'S MARSHALL SPACE FLIGHT CENTER (MSFC)

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

- Research & Development
- Production of Specialized Test Equipment & Fixtures
- Flammability & Toxicity Testing
- Data Management

Project Definition and Objective

As part of our materials and testing contract at the Marshall Space Flight Center (MSFC), ICRC successfully completed flight operations testing for the Space Shuttle Discovery's return to flight

in July 2005. Our engineers and technicians conducted tests involving tank foam, reinforced carbon-carbon (RCC) repair and flowliner crack investigation and repair.

Tasks

ICRC staff at the MSFC logged hundreds of hours conducting detailed tests for the Space Shuttle Discovery including:

- Producing top-quality special test equipment and test fixtures instrumental in successfully completing return to flight testing.
- Conducting detailed testing involving external tank foam rework and on-orbit wing leading edge reinforced carbon-carbon (RCC) and thermal protection system (TPS) repairs.
- Performing tests on external tank insulating foam at the Structural and Environmental Test Facilities, and toxicity and flammability testing of RCC and TPS repair kits.

Results

ICRC was recognized by the customer through the receipt of NASA's highly coveted Silver Snoopy award, which symbolizes the intent and spirit of Space Flight Awareness, and through receipt of several MSFC group achievement awards. In addition to award winning service, ICRC also:

- Played an integral role in ensuring the safe launch of the Space Shuttle Discovery.
- Helped to advance testing operations for NASA's Space Shuttle program through the development of innovative test equipment and test fixtures.



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

For more information or to discuss potential contracting opportunities, contact:

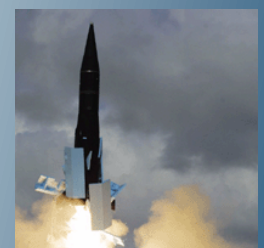
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Space Shuttle Discovery Launch