



AVIATION TESTING SOLUTIONS

150,000 LBF CERTIFICATION TEST FACILITY

**MDS**AERO.COM

906

### CUSTOMER

Rolls-Royce Mississippi, USA



# FACILITY TYPE

150,000 lbf Turbofan Outdoor Gas Turbine Engine Certification Test Facility

## ENGINE TYPES

Trent Series (1700, 1000, 900, 800, etc.) Rolls-Royce Deutschland BR 700 Series



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#### DESCRIPTION

MDS was responsible for all aspects of this turnkey project, including supply of test systems, project management, architectural design, facility construction, dismantling and refurbishment of existing Rolls-Royce equipment.

Located in the NASA complex, the Rolls-Royce Outdoor Jet Engine Test Facility is recognized as a globally-unique selfcontained facility. As Rolls-Royce's Gold Standard engine test certification site, the facility is capable of a wide range of tests, and provides for the outdoor location of the development testing of Rolls-Royce's latest family of high thrust jet engines.

### SCOPE OF WORK

- 150,000 lbf Test Stand
- **Thrust Measurement System**
- Ground Plane Simulation
- Acoustic Certification: Noise Arena, Turbulence Control Structure, and Noise Measurement System
- Performance Testing: Cross-wind Certification, Ground Plane Simulation, Reverse Thrust and Anti-Reingestion
- Static and Dynamic Data Acquisition System (above 5000 channels)
- Engine Handling
- Engine Adapters and Transportation Carts
- Mechanical Support Systems (Fuel, Air Start)
- **Cross Wind Blower**
- Modular Ground Plane & Re-Ingestion Screens



## GAS TURBINE ENGINE SOLUTIONS

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