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AVIATION  
TESTING SOLUTIONS

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150,000 LBF

GAS TURBINE ENGINE  
ICING TEST FACILITY

## *CUSTOMER*

Glacier Inc.  
(Pratt & Whitney and Rolls-Royce)

## *FACILITY TYPE*

150,000 lbf Turbofan Research & Development  
Gas Turbine Engine Icing Test Facility

## *ENGINE TYPES*

RR Trent 900, RR XWB, P&W 1500G & 1200G  
Future development engines up to 150K lb thrust



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## DESCRIPTION

The facility, known as the Global Aerospace Centre for Icing and Environmental Research (GLACIER), provides icing certification tests for large aviation gas turbine engines, as well as performance, endurance, and other gas turbine engine qualification testing.

The GLACIER facility is a joint venture between Rolls-Royce and Pratt & Whitney, in partnership with EnviroTREC, the National Research Council of Canada (NRC), and MDS Aero Support, which provides the aviation industry with the required environmental conditions and capability to meet the growing demands for icing certification.

This was a turnkey project for MDS Aero Support and the centre is currently operated and maintained by its subsidiary, MDS Aero Test.

## SCOPE OF WORK

- ▶ 150,000 lbf Test Stand
- ▶ Thrust Measurement System
- ▶ Data Acquisition System
- ▶ Direct Connect Icing Tunnel Design and Supply
- ▶ Mechanical Support Systems
- ▶ Engine Adapters
- ▶ Engine Transportation Cart
- ▶ Project Management
- ▶ Construction





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