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COMPONENT/SPECIAL TEST

TESTING SOLUTIONS

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MULTI-AXIS THRUST
MEASUREMENT
(ROLLS-ROYCE)

CUSTOMER

Rolls-Royce
Indianapolis, USA

FACILITY TYPE

Multi-Axis Thrust Measurement

ENGINE TYPES

Short take-off and Vertical landing (STOVL)
variants of the JSF Engine (PW F135 &
Rolls-Royce Lift System).



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DESCRIPTION

Design and supply of a JSF LiftFan electrical prime mover and multi-axis Thrust Measurement System for use in testing LiftFan component of the Short Take-Off and Vertical Landing (STOVL) version of the JSF Aircraft. This facility has been recognized as the first functional JSF LiftFan test facility.



SCOPE OF WORK

- ▶ Project Management;
- ▶ Electrical Substation;
- ▶ Speed Increasing Gearbox;
- ▶ Coupling Shaft;
- ▶ Driveline analysis;
- ▶ 6-axis Thrust Frame and Control System;
- ▶ Motor, Gearbox, and Torquemeter Lubrication System;
- ▶ JSF LiftFan test equipment;
- ▶ 30 MW Electrical Drive System; and
- ▶ 6-axis Thrust Measurement System rated at 25,000 lbs thrust, Thrust Frame and Control System.



MDS

GAS TURBINE ENGINE SOLUTIONS



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