



Rolls-Royce

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November 7, 2012

Mr. Jay Neylon
National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

Subject: Inv ERA13LA021 Rolls-Royce M250-C20C / T63-A-720 Engine Test Run

Rolls-Royce conducted an engine functionality test of M250 engine AE 406166 at the Rolls-Royce Indianapolis Plant 5 production test stand on 7 November 2012 under the supervision of the Indianapolis FAA FSDO Office. The engine shipping container was sealed prior to departing the operator's facility and the seals were intact prior to engine removal at Rolls-Royce. The engine was removed from the container and installed in a Rolls-Royce certified production test stand.

The engine started and functioned per specification during the test run with the following exceptions:

- The predicted power at the Normal Cruise (370hp, 1360°F MGT) setting was 364hp, which was 1.6% below specified power.

No flame outs were noted during the engine acceleration and deceleration test points and the power turbine governor functioned per specification. The predicted power at the Maximum-Take Off (420hp, 1490°F MGT) setting was 443hp, which was 5.5% above specification.

Please contact the undersigned if you have any questions regarding this examination.

Best regards,

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Jon Michael
Air Safety Investigator
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