

ADVISORY WIRE

AW700-24-0305

DATE: July 11, 2010

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FROM: BOMBARDIER CUSTOMER SERVICES BUSINESS AIRCRAFT

ADVISORY WIRE

REFERENCE NO: AW700-24-0305

SUBJECT: Variable Frequency Generator (VFG) –Failures

EFFECTIVITY: BD700-1A10 (9001 to 9999)
BD700-1A11 (9127 to 9999)

This Advisory Wire contains Operational and Maintenance Information

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1.0 REFERENCE:

N/A

2.0 INTRODUCTION:

This Advisory Wire is to inform operators of a recent Variable Frequency Generator (VFG) failure incident on a Global Express.

3.0 INFORMATION:

Bombardier was informed of a VFG failure incident on June 28, 2010 where, during the flight, the crew heard a thump and was alerted to a GEN 1 Fail message. After landing it was discovered that the VFG housing which forms the oil sump had separated and passed through the lower cowl door as it departed the aircraft.

This has been the second VFG failure of this type on the Global Express that resulted in the oil sump being ruptured and separated from the VFG. In the first event, which occurred in 2006, the condition of the unit concluded that the main rotor contacted the stator at the drive end. This led to a rise in generator oil temperature and pressure within the VFG sufficient to cause the oil sump to separate from the VFG. The fractured sump was contained within the engine cowl. Excessive heat in this event caused secondary damage (charring) to the generator harness and lower cowl door. In both events the crew heard a thump and the failures were indicated by a GEN FAIL message. There was no damage to the engine, accessory gearbox or airframe. Both aircraft continued in safe flight and had uneventful landings. Bombardier is working together with the supplier to determine the root cause. As the second failure has just recently occurred, a tear-down investigation has not yet been performed, and therefore it is not known if these events share a common root cause.

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4.0 ACTION:

There is no action required at this time. Bombardier will inform operators if any remedial fleet action is required as determined by the failure investigation. We also suggest that flight crews review the appropriate non-normal Airplane Flight Manual (AFM) procedures associated with a generator failure. Should you have any technical queries pertaining to this Advisory Wire please contact your local Field Service Representative.