

Advisory Wire

REFERENCE NO: AW700-24-0598, Rev 14

ATA: 24-21

EFFECTIVITY: Global Express
Global 5000
Global Express XRS
Global 5000 feat. Vision Flight Deck
Global 6000
Global 5500
Global 6500

SUBJECT: Variable Frequency Generator (VFG) GL511-1103-9 – Failure

1. REFERENCES:

- 1.1. Bombardier Service Bulletins (SB) [700-24-087](#) / [700-1A11-24-026](#) / [700-24-5012](#) / [700-24-6012](#), Special Check/Modification - Inspection of the Variable Frequency Generator (VFG) Housing Wall Thickness

2. INTRODUCTION:

The purpose of this Advisory Wire (AW) revision is to inform Operators about the upcoming introduction of a Pressure Relief Mechanism (PRM) to the Variable Frequency Generator (VFG).

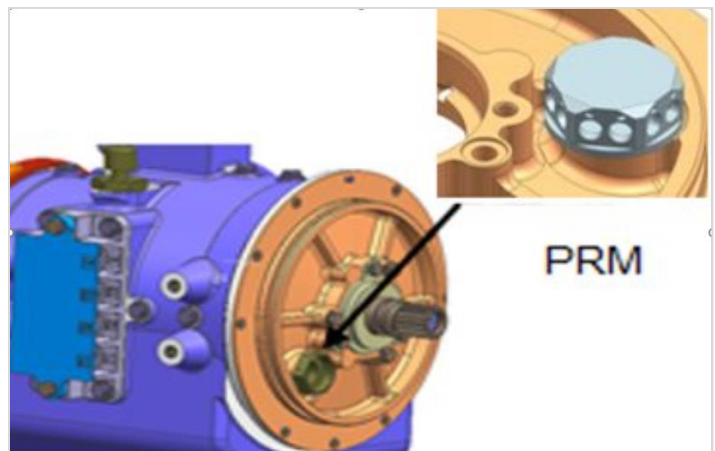
3. DESCRIPTION:

In previous revisions of this AW, Bombardier informed Operators of the VFG ruptures events on the -9 configuration. In all reported events, the flight continued with one generator inoperative, with normal operation during all phases of flight (descent, approach, landing, and taxiing).

The teardown of the failed VFG PN GL511-1103-9 units revealed that rotor / stator contact had occurred resulting in an increase in temperature and finally an over pressure of the VFG housing. There was also evidence in the first two (2) ruptures that the resulting sump rupture was linked with the wall thickness of the sump, which was below the current drawing specification. This quality escape occurred during the VFG housing casting manufacturing process and has been addressed by Service Bulletin (Ref 1.1).

As a mitigation against VFG housing rupture, a PRM will be introduced to the VFG.

The PRM consists of a burst disc set to activate at a predetermined pressure. The PRM will vent the internal pressure of the VFG overboard via the dry drain mast using the existing drain system.



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4. ACTION:

Bombardier is planning to release Service Bulletins (SB) that will provide instruction to remove the existing Thermal Dump Valve (TDV) of the VFG -9 and replace it with the PRM. The SB will also include instruction to re-identify the part number of the VFG to GL511-1103-11.

The expected release date for the SBs is Q4 2024.

Operators are encouraged to implement the PRM Service Bulletin when it is available.

Should you have any queries pertaining to this AW, please contact your Bombardier Field Service Representative (FSR) or the Customer Response Center (CRC).