

Advisory Wire

REFERENCE NO: AW700-24-0832

INFORMATION
TYPE:

Maintenance
Operational

ATA: 24-26

EFFECTIVITY:

Global 7500

**SUBJECT: Dual Frequency Converter Unit
(DFCU) Load Type Limitations**

1. REFERENCES:

1.1. Service Information Letter (SIL) - [SIL0050](#) 1429-1-004 DFCU Load Type Limitations

2. INTRODUCTION:

This Advisory Wire (AW) is to inform operators of recent premature Dual Frequency Converter Unit (DFCU) failures on production and in-service aircraft. It also provides operation recommendations to minimize the risk of DFCU failures during the supplier's completion of the Root Cause Analysis and Corrective Action (RCCA) activity.

3. DESCRIPTION:

Recently, Bombardier noted increased DFCU's failure events. Under this condition aircrew and passengers will notice no electrical power at each universal Portable Equipment Device (PED) and utility cabin outlet.

The preliminary investigation revealed a common fault code posted, at the time of the failure, on the Galley Control Panel: 242FCU0013 "*DFCU 1 Fuse Failed/Loss of Input Phase*".

Further investigation and verification have confirmed that the aircraft electrical interface was not the root cause.

Based on the preliminary findings in production and field returned units, the supplier has identified that the failure may be related to high-power (> 6 amp) inductive loads from equipment such as vacuums, hair dryers, blenders and microwaves (Ref 1.1).

4. ACTION:

Advisory Wire

Pending the supplier's completion of the RCCA and a technical solution is released, it is recommended to avoid connecting high-power inductive loads (motors) equipment or appliances exceeding six (6) ampere current draw.

It is to be noted that this system load limitation does not apply for conditions where several Portable Equipment Device (PED) such as tablets, smartphones or laptop are connected to the cabin outlets. It only applies to single high-power inductive loads.

Operators will be kept updated of any solution availability via revision of this Advisory Wire.

Should you have any queries pertaining to this AW or require additional information, please contact your Bombardier Field Service Representative (FSR) or the Customer Response Center (CRC) team 24/7.