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ADVISORY WIRE

AW700-34-0145

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ADDRESS TO:	A/C:
FAX NUMBER: NUMÉRO DE FAX:	
FROM/DE: Bombardier Aerospace, Business Aircraft	
ADVISORY WIRE	
REFERENCE NO: AW700-34-0145	
SUBJECT: FMS - FULL PERF Drop	
EFFECTIVITY: BD700-1A10 (9002 & Subs)	
ATA: 34-61	
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1.0 REFERENCE:

- 1.1 Honeywell FMS Pilot's Operating Manual (A28-1146-155)
- 1.2 Honeywell SB7017300-22-0094 released October 2003

2.0 INTRODUCTION:

This Advisory Wire is to inform Operators about a condition where the Flight Management System (FMS) SmartPerf Full Performance mode (FULL PERF) automatically reverts to Ground Speed/Fuel Flow (GS/FF).

3.0 DESCRIPTION:

Some Operators have reported repeated cases where the FMS FULL PERF mode defaults to GS/FF mode intermittently. This condition occurs during the FULL PERF computations. When this happens, the FMS continues operating, rather than performing a warm-start or cold-start.

Honeywell recommends the following work-around to avoid repeated FMS FULL PERF drops:

1. Under the PERF INDEX page on the FMS CDU, when selecting the Performance Initialization (PERF INIT) page, use POUNDS of Fuel Reserve instead of NBAA or Minutes.
2. If the FMS System continuously drops from FULL PERF to GS/FF, we suggest reloading the Aircraft Database GEX005V2 per AMM Task 34-62-01-970-803. Ensure that the Smart Learning (ref. 1.1, page 6-137) is set to ON until fairly accurate (+/- 3%) fuel/time predictions are obtained from the FMS, and then turn the Smart Learning OFF.

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In addition, Honeywell has identified single event latch-up susceptibility problems with some static random access memory (SRAM) devices installed in the IAC. These latch-up failures are intermittent and cause a variety of symptoms.

Bombardier, in conjunction with Honeywell, is developing SmartPerf improvements as part of the Integrated Avionics Computer (IAC) Batch 2 software upgrade program. This IAC software upgrade and associated Aircraft Database revision will reduce the nuisance FULL PERF drop occurrences and offer better performance predictions.

4.0 ACTION:

It is recommended that Operators familiarize themselves with this FMS performance issue and associated work around procedures. We suggest that Operators experiencing FULL PERF drops comply with the ref 1.2 Service Bulletin.