

No. 2839

FMS Nuisance Database Fail Message

Application

This Service Letter applies to Universal Avionics Systems Corporation Flight Management Systems (FMS) with SCN 80X.X/90X.X and SCN 1000.X/1100.X.

Description

A latent software anomaly exists in current FMSs which can, following a navigation database load, cause the overall database load status to be indicated as FAIL. Also, if the loaded database automatically becomes the active database, a VHF NAVAID DATABASE FAIL CDU message will be displayed. This problem occurs most frequently when loading a navigation database and any of the following ARINC output buses are configured "IMS-01", "IC615-01" or "HS429 MOD 3".

The VHF NAVAID DATABASE FAIL CDU message may also appear following performance and company database loads. These failure messages are due to an erroneous setting of an internal flag and are not indicative of corruption of the data. A database for which individual entries show PASS is acceptable for use even though there is a FAIL message following a database load.

This problem may result in an annunciated malfunction following a navigation, performance or company database load. The annunciation is false since the navigation database actually passes all necessary integrity checks. This can be confirmed by checking the load status page for each database type following the "Database Load Verification with FAIL Message Procedures" below. There is no effect on the continued use of the FMS in this state. This problem does not impact the use of the FMS.

Actions

This issue will be corrected in a future FMS software release.

Database Load Verification with FAIL Message Procedures

<p>To verify that the navigation database is valid and OK for use, press the DATA key for page 1.</p> <p>Press the NAV DATA line select key. DATA/NAV page 1 of 2 is displayed.</p> <p>Press NEXT to display page 2.</p> <p>The inactive database should reflect the expiration date of the newly loaded NAV database if it is to be activated at a future date. If the newly installed NAV database is to take effect immediately, it will be presented as the active database.</p>	
<p>Press DB STATUS line select key [5L] to display DB STATUS page.</p> <p>Review the NAV Database integrity to assure that PASS is indicated for all entries.</p>	