FAA
Aviation Safety

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

SAIB: SW-13-08
SUBJ: Navigation – Avionics and Multifunction Displays **Date:** December 13, 2012
This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin advises you, owners and operators of Aspen Avionics EFD1000 and EFD500 Multifunction Displays (MFD), of an unintentional reset occurring in certain display modes when there are a large number of Temporary Flight Restrictions (TFRs).

At this time, this airworthiness concern has not been determined to be an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

Background

In certain situations the MFDs may unintentionally reset. The reset occurs when the avionics software receives a high number of TFRs and the MFDs are set to display information about the TFRs, such as when displaying moving maps. The primary flight displays (PFD) are not affected.

More specifically the following conditions must be met:

- An EFD1000 and/or EFD500 must be installed as a multifunction display.
- The MFDs must be connected to a source to receive TFRs, such XM Satellite receivers.
- There must be more than 100 TFRs received by the system.
- The MFDs must have either the moving map or the TFR page selected.

Depending on the particular hardware installed, the following may occur when the software reset occurs:

- One or more of the MFDs will reset and temporarily go blank.
- The autopilot may disconnect.
- There may be a warning indicator stating "A/P AHRS Fail." NOTE: The primary display AHRS is unaffected.
- Certain optional indicators on the PFD might be lost due to loss of autopilot.

During the reset, all required information displayed on the PFD and needed to safely fly the aircraft is available and unaffected. The MFD reset takes 20 to 30 seconds to complete. During this time the MFD may go blank. After reset is initiated it typically takes 15 to 20 minutes to restore XM satellite information. Subsequent resets will only occur if the above listed criteria are met, and only after the TFR list has been updated in the software.

Recommendations

The FAA recommends that all owners and operators update the avionics software of the EFD1000 and EFD500 to version 2.6 or later FAA approved version. The software update can be obtained from Aspen Avionics and installed per Aspen Service Bulletin SB2012-05.

The FAA also recommends that all owners and operators ensure they are using revision N, or later FAA approved version, of the approved flight manual supplement (AFMS), and are familiar with operating requirements. Section 3.15 of the AFMS contains troubleshooting procedures applicable to this situation. The latest AFMS can be obtained from Aspen Avionics' website, www.aspenavionics.com.

For Further Information Contact

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For Related Service Information Contact

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