NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division Washington, D.C. 20594

November 14, 2017

Cockpit Display

Specialist's Factual Report By Bill Tuccio, Ph.D.

1. EVENT SUMMARY

Location:Methuen, MassachusettsDate:February 28, 2017Aircraft:SonexRegistration:N315ALOperator:PrivateNTSB Number:ERA17FA117

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received an instrument panel contained the following electronic device:

Device Manufacturer/Model: Infiniteq Xtreme-EFIS¹ Serial Number: Unknown

3.1. Device Description

The Xtreme-EFIS is capable of displaying primary flight display information, navigation information, and, optionally, engine information. If enabled, the device is capable of recording 5 to 20 hours of data, depending on parameters selected for recording. All data is recorded 1 time per second to a removable, front-loaded SD card. The recorded data file, called "enigma.rec," is a fixed size of 10,000 bytes. When the allocated file space is filled, the oldest data is overwritten by the newest data.

¹ Other versions of this product were also made by MGL Avionics. EFIS is an acronym for Electronic Flight Instrument System.

3.2. Device Condition

The instrument panel was damaged by impact and heat damage. The Xtreme-EFIS was removed from the instrument panel, as shown in figure 1. The front-loaded SD card was not accessible due to heat damage, so the unit was disassembled, as shown in figure 2. The SD card was recovered, though the non-terminal side was fused to part of the Xtreme-EFIS assembly, as shown in figure 3.







Figure 2. Disassembly to remove SD card.

Figure 3. SD Card removed from unit.



3.3. Data Description

The SD card was successfully read and the enigma.rec file was converted using the manufacturer's software. Only one file from February 5, 2016, was recovered and this file was consistent with a ground-only operation. No data pertinent to the investigation was recovered.