

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division
Washington, D.C. 20594

April 4, 2017

Cockpit Display– Recorded Flight Data

Specialist's Factual Report By James Cash

1. EVENT SUMMARY

Location: Alpine, Wyoming
Date: January 04, 2016
Aircraft: Yakovlev Yak-52
Registration: N912EB
Operator: Wyoming Wings LLC
NTSB Number: WPR16FA046

On January 4, 2016, about 1615 Mountain Standard Time, an experimental Aerostar S A YAK 52, N912EB, collided with terrain while maneuvering near Alpine, Wyoming. Wyoming Wings LLC was operating the airplane under the provisions of Title 14 Code of Federal Regulations (CFR) Part 91. The private pilot and a private pilot-rated passenger sustained fatal injuries. The airplane was destroyed during the accident sequence. The local personal flight departed Alpine about 1530. Visual meteorological conditions (VMC) prevailed, and no flight plan had been filed.

2. RECORDED FLIGHT DATA GROUP

A recorded flight data group was not convened

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following electronic display capable of recording information to non-volatile memory¹ (NVM):

Recorder Manufacturer/Model: **Dynon EFIS-D10A**
Recorder Serial Number: **7160**

3.1. Dynon EMS-D10A Description

The Dynon Engine Monitoring System (EMS) D10A is a 7" wide screen display mounted in the cockpit of non-type certificated aircraft. The instrument integrates up to 16 engine related instruments including manifold pressure, temperatures, RPM and fuel system

¹ Solid-state memory that retains the stored data when electrical power is removed from the device.

information. Depending on the type of engine installed in the aircraft and pilot preferences, not all display options are available.

Depending on the firmware version on the unit, the ability to log data to internal memory exists. According to the manufacturer, firmware versions 3.0 and later contain the ability to log certain engine parameters. The data logging must be configured by the operator to enable logging and set the data log interval. The unit can also be configured to start logging data automatically at boot-up. The data logging interval can be set to store at 1, 3, 5, 10, 30 and 60 second intervals. The internal memory can store at least 30 minutes of cumulative data at a 1 second recording interval or at least 30 hours at a 60 second data recording interval. When the recording limit in the internal memory is reached, the oldest record is dropped and a new record is added.

3.1.1. Dynon EMS-D120 Data Recovery

The recorder was in good condition. Based on information from the manufacturer, the software installed in the unit does not have the capability to store data. No information was recovered that pertained to the incident flight.