

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division
Washington, D.C. 20594

May 1, 2020

Personal Electronic Device Factual Report

Specialist's Factual Report
By Nick Swann

1. EVENT SUMMARY

Location: Detroit, Michigan
Date: June 24, 2018
Aircraft: Cessna P210N
Registration: N3896P
Operator : Private
NTSB Number: CEN18FA236

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

The National Transportation Safety Board (NTSB) Vehicle Recorder Division received the following devices:

Device Manufacturer/Model:	Apple iPhone 6S
IMEI Number:	355684071836599

Device Manufacturer/Model:	Apple iPad Pro
Serial Number:	DMPVK4AFH160

3.1. Personal Electronic Device (PED) Description

PEDs are a category of devices comprised primarily of portable computing devices and mobile phones. Portable computing devices are typically capable of internet access, email, messaging services, and can run user-installed applications to perform specific tasks. Depending on the model, mobile phones can perform many of the same tasks as portable computing devices, plus have voice call and text messaging capabilities. PED user and system data is typically stored on non-volatile memory¹ and can be accessed through manufacturer-provided interfaces.

¹ Non-volatile memory is semiconductor memory that does not require external power for data retention.

3.2. Device Conditions

3.2.1. Apple iPhone 6S Device Condition

Upon arrival at the Vehicle Recorder Laboratory, an examination revealed the unit had sustained minor impact damage. The extent of the damage is shown in figure 1.



Figure 1. Photo of damaged iPhone 6S

The device was powered on normally, however, the display was malfunctioning. It was determined that the device would require substantial work to return functionality to the screen and in agreement with the Investigator-in-Charge, a full recovery of the device was not continued.

3.2.2. Apple iPad Pro Device Condition

Upon arrival at the Vehicle Recorder Laboratory, an examination revealed the unit had sustained significant impact damage. Due to the damage noted and the substantial work required to recover the device, in agreement with the Investigator-in-Charge, a full recovery of the device was not continued.



Figure 2. Photo of damaged Apple iPad Pro

3.3. Data Descriptions

These devices are capable of storing data in the NVM. The extent of the damage to each device precluded normal recovery procedures. Therefore, no data pertinent to the event were recovered.