

National Transportation Safety Board

Office of Research and Engineering

Washington, DC 20594



ERA24FA001

PERSONAL ELECTRONIC DEVICE DATA

Specialist's Factual Report

March 22, 2024

A. ACCIDENT SUMMARY

Location: Lake Placid, New York
Date: October 01, 2023
Time: 1608 eastern daylight time (EDT)
Airplane: Cessna 177RG, N545PZ

B. PERSONAL ELECTRONIC DEVICE DATA SPECIALIST

Specialist: W. Deven Chen
Electrical Engineer – Recorder Specialist
National Transportation Safety Board (NTSB)

C. DETAILS OF THE INVESTIGATION

A recorder group was not convened. The NTSB Vehicle Recorder Division received the following personal electronic device (PED) data on a hard drive from the New York State Police:

Owner: Pilot-Rated Passenger
Data: Phone Cellebrite¹ Full File System Extraction²

No PED data of the pilot was received by the Vehicle Recorder Division.

1.0 Device 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 memory (NVM) and can be accessed through manufacturer-provided interfaces.³

1.1 Data Examination

The data were examined at the Vehicle Recorder Division. In a consultant with the investigator-in-charge (IIC), no pertinent data to this investigation was found.

¹ Cellebrite produces digital forensic tool set for collection, analysis, and management of digital data from predominantly personal electronic devices.

² Full File System Extraction (FFS) is a digital forensic technique used to obtain a complete copy of the file system from a digital device, which ensures the integrity and admissibility of the extracted data.

³ Non-volatile memory is semiconductor memory that does not require external power for data retention.