

**NATIONAL TRANSPORTATION SAFETY BOARD
Office of Research and Engineering
Vehicle Recorder Division
Washington, D.C. 20594**



SPECIALIST'S FACTUAL REPORT OF INVESTIGATION

CEN19FA032

**By
Gerald Kawamoto**

WARNING

The summary of content should be viewed as an accident investigation tool to be used in conjunction with other evidence gathered during the investigation. Conclusions or interpretations should not be made using the summary of content as the sole source of information.

NATIONAL TRANSPORTATION SAFETY BOARD
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January 8, 2020

Personal Electronic Device

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1. EVENT SUMMARY

Location: Santa Fe, New Mexico
Date: November 26, 2018
Aircraft: Mooney M20C, Registration N113TA
Operator: Private
NTSB Number: CEN19FA032

On November 26, 2018, about 1950 mountain standard time (MST), a Mooney M20C airplane, N113TA, impacted terrain about 1/3-mile south of the Santa Fe Municipal Airport (SAF), Santa Fe, New Mexico. The pilot was fatally injured. The airplane was destroyed by impact forces and a post-impact fire. The airplane was registered to Nelson Flying Service and operated by the pilot as a Title 14 *Code of Federal Regulations* Part 91 positioning flight. Night visual meteorological conditions prevailed. The flight was not operated on flight plan. The flight originated from the Phoenix Goodyear Airport (GYR), Goodyear, Arizona about 1500 and was destined for the Colorado Plains Airport (AKO), Akron, Colorado.

2. GROUP

A group was not convened.

3. DETAILS OF INVESTIGATION

The NTSB Vehicle Recorder Division received the following personal electronic device (PED):

Recorder Manufacturer/Model:	Motorola E5 Supra
Recorder Serial Number:	351893090518401

3.1 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. 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 Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed the device had sustained impact damage resulting in cracks to the screen, as shown in Figure 1. The device powered on normally and was unlocked using the passcode provided by the Investigator-In-Charge (IIC). A forensic image of the device's contents was created for examination using laboratory tools.

Figure 1. Motorola E5 Supra as received.



3.3 Data Description

Upon powering on, three applications were in the recently used dock: Google Maps, Phone, and Messages, with the latter being the most recently opened. The content was reviewed, and content determined to be pertinent to the investigation is included in this report.

3.4 Summary of Content

All text messages and calls included in this report were to and from the same recipient. Time stamps on the mobile device were provided by the network the device was connected to and were downloaded as Coordinated Universal Time (UTC). The difference between UTC and MST is 7 hours and that offset has been applied to the times in this report.

- The last outgoing text message was at 19:14:56 MST on November 26, 2018.
- The last outgoing call was at 19:25:23 MST on November 26, 2018. The duration was 0 seconds.
- The last incoming text message marked as read was at 19:42:41 MST on November 26, 2018.

Transcript of Moto E5 Supra text messages, serial number 351893090518401, recovered from Mooney M20C (N113TA), near Santa Fe Municipal Airport (SAF), Santa Fe, New Mexico.

Note 1: Times are expressed in Mountain Standard Time (MST).

Date & Time		Direction	Status	Message Content
11/14/2018	14:59:37	Outgoing	Sent	Think you can find the Akron airport? That would be great! I will provide updates enroute.
11/14/2018	15:24:20	Incoming	Read	Yes just tell me the address & I will find you baby
11/25/2018	20:10:54	Outgoing	Sent	Found 113TA. Clear across the field and gathering dust. I did attract the attention of security! He noticed my hat, and we were instant buddys! He had 20 yrs in the air Force. He drove me around to where the aircraft was parked. There are several hundred parked here small to very large.
11/25/2018	20:14:07	Incoming	Read	Sounds great , so the plane passed the trial test?
11/25/2018	20:23:29	Outgoing	Sent	More tests tomorrow. I plan on being in the air by 10:30, in Acron by 2.
11/25/2018	20:25:00	Incoming	Read	Be safe & keep me updated. Can't wait to see you. [four unrecognized emoji²]
11/25/2018	20:27:34	Outgoing	Sent	I am encouraged by the condition of the aircraft. Well cared for.
11/25/2018	20:28:16	Incoming	Read	That's good
11/26/2018	18:36:59	Outgoing	Sent	Over Colo springs.
11/26/2018	18:54:03	Incoming	Read	What is your eta?
11/26/2018	18:54:05	Incoming	Read	[@pilot] ?
11/26/2018	19:06:28	Outgoing	Unsent	Put the lights up to max
11/26/2018	19:14:56	Outgoing	Sent	What is. Your vor freq?
11/26/2018	19:21:23	Incoming	Read	Ok
11/26/2018	19:21:42	Incoming	Read	? Don't know what thAt is
11/26/2018	19:37:00	Incoming	Read	114.4 (AKO)
11/26/2018	19:42:41	Incoming	Read	Did you get that?
11/26/2018	20:16:20	Incoming	Unread	Is everything ok?
11/26/2018	20:37:08	Incoming	Unread	[@pilot] please let me know you r ok , if you r getting this text
11/26/2018	22:11:54	Incoming	Unread	With the help of [@other individual] we have called the FAA. You are long overdue.
11/27/2018	7:44:06	Incoming	Unread	[@pilot] , r you ok ? Love ya

² Emoji are ideograms that can be used in electronic messages. Emoji exist in various forms, including facial expressions, common objects, places and types of weather, and animals.