NATIONAL TRANSPORTATION SAFETY BOARD
Vehicle Recorder Division
Washington, D.C. 20594

January 8, 2014

Electronic Devices Factual Report

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

1. EVENT

Location:	Clayton, Oklahoma
Date:	October 18, 2013
Aircraft:	Cessna 177
Registration:	N30495
Operator:	Private
NTSB Number:	CEN14FA010

On October 18, 2013, approximately 0030, a Cessna 177A, N30495, was substantially damaged when it collided with terrain west of Clayton, Oklahoma. A post impact fire ensued. The commercial pilot was fatally injured. The airplane was registered to Eagle Sky Patrol, Inc., and operated by a private individual under the provisions of 14 *Code of Federal Regulations* Part 91 as a personal flight. Instrument meteorological conditions prevailed for the flight, which operated without a flight plan. The flight originated from Tahlequah Municipal Airport (KTQH), Tahlequah, Oklahoma, approximately 0000 and was en route to Terrell, Texas.

2. DETAILS OF DEVICE INVESTIGATION

The Safety Board's Vehicle Recorder Division received the following devices:

Device 1:	Sony Ericsson Cell Phone (Model W518a)
Device 1 Serial Number:	BX9017610N
Device 2:	Apple iPad
Device 2 Serial Number:	V5042MWJETV

2.1. Sony Ericsson Cell Phone Device Description

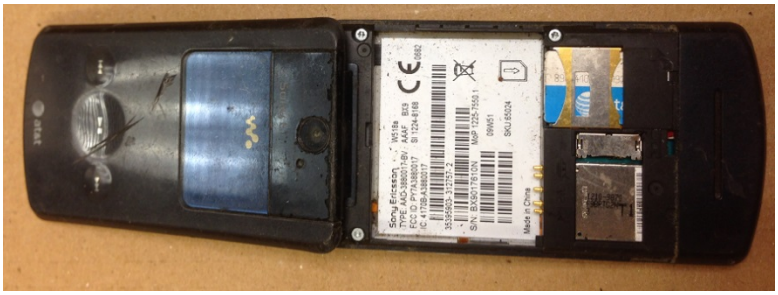
The Sony Ericsson is a compact, flip-phone design. The phone is capable of voice calling, text messaging, and photo transmission via multimedia text messaging.

2.1.1. Sony Ericsson Cell Phone Data Recovery

Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed the unit had sustained minor damage. The battery was missing and there was no SD card,

as shown in figure 1. A replacement battery was obtained and the phone started normally.

Figure 1. Sony Ericsson cell phone.



2.1.2. Sony Ericsson Cell Phone Data Description

The phone contained no information pertinent to the accident investigation.

2.2. Apple iPad Device Description and Recovery

The Apple iPad is touchscreen capable tablet device. Upon arrival at the Vehicle Recorder Laboratory, an exterior examination revealed the unit had sustained significant structural damage, as shown in figure 2. An internal inspection revealed some of the connectors had been damaged and had evidence of short-circuiting, as shown in figure 2. Due to the damage, no data was recovered from the device.

Figure 2. Apple iPad.

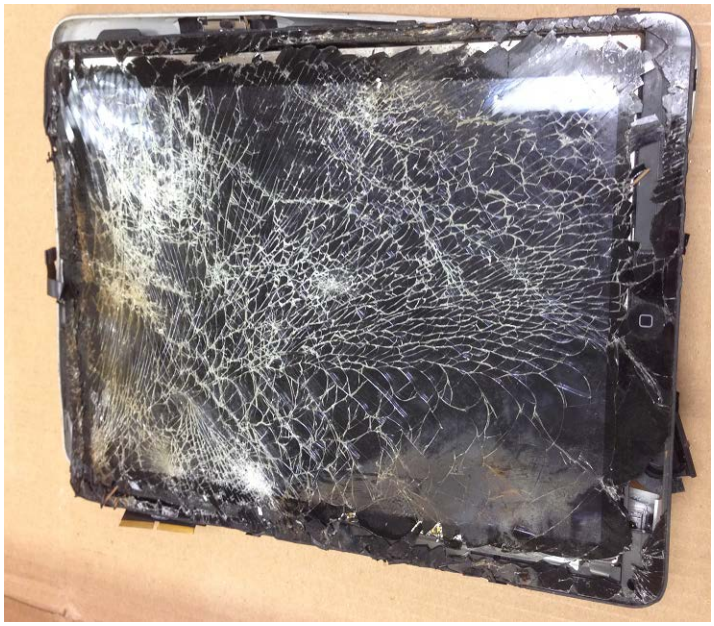


Figure 3. Apple iPad internal components.