

NATIONAL TRANSPORTATION SAFETY BOARD

Vehicle Recorder Division
Washington, D.C. 20594

July 1, 2016

SATLOC Onboard CPU

Specialist's Factual Report
By George Haralampopoulos

1. EVENT SUMMARY

Location: Hancock, Wisconsin
Date: August 26, 2016
Aircraft: Weatherly 620B
Registration: N2005C
Operator: Agricaire Flying Service
NTSB Number: CEN15LA399

On August 26, 2015, at 1130 central daylight time, a Weatherly Aircraft Company 620B, N2005C, impacted terrain during an aerial application of a field near Hancock, Wisconsin, after the left wing experienced an in-flight separation. The airplane was destroyed. The pilot was fatally injured. The airplane was registered to Agricaire Leasing LLC and operated by Agricaire Flying Service, Inc, under 14 *Code of Federal Regulations* Part 137 as an aerial application flight that was not operating on a flight plan. The flight originated from Bancroft, Wisconsin, at 1115 central daylight time.

2. DETAILS OF INVESTIGATION

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

Device Manufacturer/Model:	SATLOC CPU
Part Number:	806-1003-01A
Serial Number:	6612-01

2.1. Device Description

The SATLOC CPU is part of an on-board aerial applicators control system designed to programmatically control spray rates.

The SATLOC CPU is capable of recording GPS position data at one sample per second, and flow rate data to an internal PCMCIA card.

2.2. 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. An internal inspection revealed the unit's PCMCIA cards.

The logs containing the GPS and flow rate information were successfully read out using the manufacturer's software; however, the threshold for triggering a recorded was set at 150 miles per hour. The date of the last log recorded was 6 months prior to the accident event. It was determined that no pertinent information to the investigation could be extracted.



Figure 1. Photo of SATLOC CPU as received.