

Aviation Investigation Final Report

Location: Middletown, Ohio Accident Number: CEN13CA190

Date & Time: March 11, 2013, 22:00 Local Registration: N199Q

Aircraft: Mooney M20E Aircraft Damage: Substantial

Defining Event: Fuel exhaustion **Injuries:** 1 Serious, 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

According to the pilot, during an approach to land, he attempted to activate the runway lights via the push-to-talk radio switch in the cockpit; however, the lights would not activate. While continuing to fly for about 2 hours attempting to locate another airport, the airplane ran out of fuel, and the pilot executed a forced landing. During the forced landing, the airplane impacted power lines and brush-covered terrain. The airplane sustained substantial damage to the fuselage and both wings. Examination of the airplane did not reveal any preaccident mechanical malfunctions or failures that would have precluded normal operation. During the flight, the pilot entered class C and class D airspace and instrument meteorological conditions without clearance. The pilot did not hold a current medical certificate or flight review, and the airplane's annual inspection was not current. The pilot admitted to emergency first responders that he had been consuming alcohol before the flight.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The total loss of engine power due to fuel exhaustion, which resulted from the noncurrent pilot's improper in-flight fuel management and decision-making and his decision to conduct the flight after consuming alcohol.

Findings

Aircraft Fuel - Fluid level

Personnel issues Qualification/certification - Pilot

Aircraft Scheduled maint checks - Not serviced/maintained

Personnel issues Decision making/judgment - Pilot

Personnel issues Alcohol - Pilot

Page 2 of 5 CEN13CA190

Factual Information

History of Flight

Maneuvering	Fuel exhaustion (Defining event)
Emergency descent	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial	Age:	50,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	3500 hours (Total, all aircraft), 40 ho all aircraft)	ours (Total, this make and model), 12 h	hours (Last 90 days,

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N199Q
Model/Series:	M20E	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1179
Landing Gear Type:	Retractable - Tricycle	Seats:	
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-360-B1B
Registered Owner:	ON FILE	Rated Power:	180 Horsepower
Operator:	ON FILE	Operating Certificate(s) Held:	None

Page 3 of 5 CEN13CA190

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:		Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Middletown, OH	Type of Flight Plan Filed:	None
Destination:	Middletown, OH	Type of Clearance:	None
Departure Time:	20:00 Local	Type of Airspace:	

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 1 Minor	Latitude, Longitude:	39.531665,-84.396385(est)

Page 4 of 5 CEN13CA190

Administrative Information

Investigator In Charge (IIC):	Sauer, Aaron
Additional Participating Persons:	Gary L Middleton; Federal Aviation Administration; Cincinnati, OH
Original Publish Date:	June 24, 2013
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=86398

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available here.

Page 5 of 5 CEN13CA190