



National Transportation Safety Board Aviation Accident Final Report

Location:	Somerville, TN	Accident Number:	ATL07LA001
Date & Time:	10/04/2006, 1815 CDT	Registration:	N493Y
Aircraft:	Grumman G-164	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 137: Agricultural		

Analysis

The pilot reported that he was conducting an aerial application flight. He stated that about half way through the third turn-around maneuver a gradual loss of power occurred. He added full throttle but did not notice the difference in the engine sound or the power output. He made a forced landing into a small field of trees and the airplane collided with the ground. The pilot exited the airplane, and an immediate post-crash fire consumed the airplane. Examination of the airplane by an FAA inspector revealed that all components for flight were located at the crash site. An examination of the engine revealed that all of its components were heavily fire damaged, and an engine examination could not be facilitated due to the fire damage. Due to the engine fire damage the cause of the loss of power could not be determined.

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 for undetermined reasons.

Findings

Occurrence #1: LOSS OF ENGINE POWER

Phase of Operation: MANEUVERING - AERIAL APPLICATION

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY DESCENT/LANDING

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

2. OBJECT - TREE(S)

Factual Information

On October 4, 2006, at 1815 central daylight time, a Grumman G-164, N493Y, registered to and operated by Fayette Flying Service LLC, as a 14 Code of Federal Regulation Part 137 aerial application flight, loss full engine power while maneuvering in the vicinity of Somerville, Tennessee. The airplane collided with a tree while making a force landing, and was substantially damaged by post-crash fire. Visual meteorological conditions prevailed and no flight plan was filed. The private pilot received minor injuries. The flight originated from the Fayette County Airport, Somerville, Tennessee, at 1750.

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Examination of the airplane by an FAA inspector revealed that all components for flight were located at the crash site. An examination of the engine revealed that all of its components were heavily fire damaged, and an engine examination could not be facilitated due to the fire damage. A review of the engine logbook pages revealed that the engine was overhauled on July 27, 2006 at an engine total time of 524.7 hours. After the engine was reinstalled it was run for 1-hour. The owner of the airplane did not submit the airplane logbooks or records for review to the NTSB.

Pilot Information

Certificate:	Private	Age:	43, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With Waivers/Limitations	Last Medical Exam:	08/01/2006
Occupational Pilot:		Last Flight Review or Equivalent:	08/01/2006
Flight Time:	1000 hours (Total, all aircraft), 92 hours (Total, this make and model), 970 hours (Pilot In Command, all aircraft), 95 hours (Last 90 days, all aircraft), 50 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Grumman	Registration:	N493Y
Model/Series:	G-164	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	137
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	02/01/2006, Annual	Certified Max Gross Wt.:	5095 lbs
Time Since Last Inspection:	75 Hours	Engines:	1 Reciprocating
Airframe Total Time:	10081 Hours	Engine Manufacturer:	Pratt & Whitney
ELT:	Not installed	Engine Model/Series:	R-985-14B
Registered Owner:	Fayette Flying Service LLC	Rated Power:	450 hp
Operator:	Fayette Flying Service LLC	Air Carrier Operating Certificate:	
Operator Does Business As:		Operator Designator Code:	F7FG

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KMEM, 341 ft msl	Observation Time:	1753 CDT
Distance from Accident Site:	30 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	270°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Few / 9500 ft agl	Temperature/Dew Point:	31°C / 16°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	6 knots	Visibility (RVR):	
Altimeter Setting:	30.09 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	SOMERVILLE, TN (FYE)	Type of Flight Plan Filed:	None
Destination:	Somerville, TN	Type of Clearance:	None
Departure Time:	1750 CDT	Type of Airspace:	

Airport Information

Airport:	FAYETTE COUNTY (FYE)	Runway Surface Type:	
Airport Elevation:	436 ft	Runway Surface Condition:	
Runway Used:	NA	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced Landing

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor		

Administrative Information

Investigator In Charge (IIC):	Eric H Alleyne	Adopted Date:	03/31/2008
Additional Participating Persons:	Troy L Hart; Memphis FSDO-25; Memphis, TN		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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