



# Aviation Investigation Final Report

<b>Location:</b>	URBANA, Ohio	<b>Accident Number:</b>	NYC91LA224
<b>Date &amp; Time:</b>	August 27, 1991, 14:10 Local	<b>Registration:</b>	N6304F
<b>Aircraft:</b>	CESSNA 337	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

THE PILOT'S PREFLIGHT CONSISTED OF CHECKING THE FUEL TANKS WITH A STICK, AND FINDING ABOUT 2 INCHES OF FUEL IN THE RIGHT MAIN FUEL TANK. THE AIRPLANE HAD JUST COME OUT OF MAINTENANCE BECAUSE OF INOPERATIVE FUEL GAUGES. THE PILOT WAS RETURNING TO HIS HOME AIRPORT, LANDED AND INTENDED TO TAKEOFF AGAIN. BECAUSE OF WINDS HE HAD TO TAXI TO A DIFFERENT RUNWAY. JUST AFTER TAKEOFF AND AT A LOW ALTITUDE THE PILOT REALIZED THE REAR ENGINE HAD FAILED. THE AIRPLANE STARTED TO STALL, HOWEVER THE PILOT SAID THERE WAS NOT ENOUGH RUNWAY REMAINING TO ABORT THE TAKE OFF. HE ELECTED TO MAKE A FORCED LANDING AND CAME TO REST IN A POND. THE FUEL SELECTOR FOR THE REAR ENGINE WAS FOUND ON THE RIGHT MAIN TANK. A CESSNA SERVICE LETTER AND AD HAD BEEN ISSUED FOR THIS TYPE AIRPLANE CALLING FOR AN OPERATIONAL PROCEDURE; TO LEAD WITH THE REAR ENGINE WHILE TAXIING, AND DURING TAKE OFF, IN ORDER TO MORE CLEARLY RECOGNIZE A REAR ENGINE FAILURE. THE PILOT'S STATEMENT DID NOT INDICATE THAT HE HAD COMPLIED WITH EITHER THE SERVICE LETTER OR THE AD.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO FOLLOW PROCEDURES AND DIRECTIVES WHICH RESULTED IN THE FAILURE OF THE PILOT TO RECOGNIZE THE STOPPAGE OF THE REAR ENGINE PRIOR TO TAKE OFF. ADDITIONALLY THE LACK OF TOTAL ENGINE POWER RESULTED IN THE INABILITY OF THE PILOT TO MAINTAIN THE PROPER CLIMB SPEED, AND RESULTED IN A SUBSEQUENT FORCED LANDING IN WATER. FACTORS RELATED TO THE ACCIDENT WERE THE PILOT'S FAILURE TO COMPLY WITH THE MANUFACTURER'S SERVICE LETTER PERTAINING TO THE OPERATIONAL PROCEDURES TO PREVENT A REAR ENGINE POWER

LOSS, AND THE PILOT'S TOTAL LACK OF FLYING EXPERIENCE IN THIS TYPE OF AIRPLANE.

## Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL

Phase of Operation: TAKEOFF - INITIAL CLIMB

### Findings

1. (C) POWERPLANT - FAILURE, TOTAL
  2. (C) PROCEDURES/DIRECTIVES - NOT FOLLOWED - PILOT IN COMMAND
  3. (C) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND
  4. (C) STALL/MUSH - ENCOUNTERED - PILOT IN COMMAND
  5. PROCEDURE INADEQUATE - PILOT IN COMMAND
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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

### Findings

6. (C) TERRAIN CONDITION - WATER

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	74, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Valid Medical--w/ waivers/lim	<b>Last FAA Medical Exam:</b>	June 13, 1990
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	4000 hours (Total, all aircraft), 4000 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N6304F
<b>Model/Series:</b>	337 337	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	0304
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	January 2, 2000 Unknown	<b>Certified Max Gross Wt.:</b>	4200 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-360-C
<b>Registered Owner:</b>	MARTIN J. COOK	<b>Rated Power:</b>	210 Horsepower
<b>Operator:</b>	MARTIN J. COOK	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Unknown	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Unknown	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	0°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	27°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	LONDON , OH (VFY)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	00:00 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	GRIMES FIELD I74	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	1000 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	23	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3500 ft / 75 ft	<b>VFR Approach/Landing:</b>	Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Yurman, Alan
<b>Additional Participating Persons:</b>	LEE THIEL; COLUMBUS , OH
<b>Original Publish Date:</b>	April 23, 1993
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=37001">https://data.nts.gov/Docket?ProjectID=37001</a>

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