



National Transportation Safety Board Aviation Accident Final Report

Location:	SELLERSBURG, IN	Accident Number:	CHI89DEX04
Date & Time:	06/02/1989, 1051 EDT	Registration:	N3665F
Aircraft:	NORTH AMERICAN SNJ-5	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Serious, 1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

A TOTAL LOSS OF ENGINE POWER WAS EXPERIENCED ON A CROSSWIND LEG SHORTLY AFTER TAKEOFF. THE AIRPLANE CONTACTED A TELEPHONE WIRE AND 4 TO 5 FOOT HIGH MOUNDS OF DIRT DURING THE FORCED LANDING PRIOR TO COMING TO REST INVERTED. INSPECTION OF THE ENGINE REVEALED A CATASTROPHIC FAILURE OF THE SUPERCHARGER IMPELLER WHICH RESULTED IN THE INGESTION OF METAL INTO THE ENGINE AND SUBSEQUENT PISTON SEIZURE. EVIDENCE OF FOREIGN OBJECT DAMAGE WAS VISIBLE ON THE IMPELLER.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE INGESTION OF A FOREIGN OBJECT AND SUBSEQUENT SUPERCHARGER IMPELLER FAILURE.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) ENG ASSEMBLY,BLOWER/IMPELLER/INTEGRAL SUPERCHARGER - FOREIGN OBJECT DAMAGE
2. ENG ASSEMBLY,BLOWER/IMPELLER/INTEGRAL SUPERCHARGER - FAILURE,TOTAL
3. ENGINE ASSEMBLY,PISTON - SEIZED

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Findings

4. (F) TERRAIN CONDITION - NONE SUITABLE
5. OBJECT - WIRE,STATIC

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

6. TERRAIN CONDITION - ROUGH/UNEVEN

Occurrence #4: NOSE OVER
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	41, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Front
Other Aircraft Rating(s):		Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	01/17/1989
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	4841 hours (Total, all aircraft), 15 hours (Total, this make and model), 4600 hours (Pilot In Command, all aircraft), 43 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	NORTH AMERICAN	Registration:	N3665F
Model/Series:	SNJ-5 SNJ-5	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	84930
Landing Gear Type:	Retractable - Tailwheel	Seats:	2
Date/Type of Last Inspection:	04/21/1989, Annual	Certified Max Gross Wt.:	5300 lbs
Time Since Last Inspection:	8 Hours	Engines:	1 Reciprocating
Airframe Total Time:	4323 Hours	Engine Manufacturer:	P&W
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	R-1340-AN1
Registered Owner:	BLUE SKY AVIATION	Rated Power:	600 hp
Operator:	BLUE SKY AVIATION	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	LOU, 496 ft msl	Distance from Accident Site:	11 Nautical Miles
Observation Time:	1000 EDT	Direction from Accident Site:	180°
Lowest Cloud Condition:	Unknown / 6000 ft agl	Visibility	6 Miles
Lowest Ceiling:	Broken / 6000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	23° C / 17° C
Precipitation and Obscuration:			
Departure Point:	SELLERSBURG, IN (JVY)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1040 EDT	Type of Airspace:	Class G

Airport Information

Airport:	CLARK COUNTY (JVY)	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced Landing; Traffic Pattern

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:	

Administrative Information

Investigator In Charge (IIC):	ALBERT C MICHAELS	Report Date:	06/30/1992
Additional Participating Persons:	MICHAEL R CLARK; INDIANAPOLIS, IN		
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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