



Aviation Investigation Final Report

Location:	LACON, Illinois	Accident Number:	CHI92LA259
Date & Time:	August 29, 1992, 10:00 Local	Registration:	N3486N
Aircraft:	MOONEY 20F	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

AS THE PILOT NEARED THE AIRPORT FOR LANDING, HE MANEUVERED ABRUPTLY TO AVOID COLLIDING WITH A DEPARTING AIRPLANE. HE THEN EXECUTED AN APPROACH TO THAT RUNWAY BENEATH HIS WING. ON FINAL, HE OBSERVED THE RUNWAY TO BE BLACKTOP WITH NO MARKINGS. IN THE FLARE, HE OBSERVED THE RUNWAY DID NOT APPEAR TO BE FINISHED. THE AIRPLANE TOUCHED DOWN SHORT OF THE RUNWAY UNDER CONSTRUCTION IN A SOIL AREA RIPPING OFF THE GEAR. THE PILOT STATED HE HAD CHECKED THE NOTAMS AND WAS AWARE THAT THE N-S RUNWAY WAS CLOSED FOR CONSTRUCTION. HE INDICATED THAT THE EARLIER NEAR-COLLISION HAD STARTLED HIM AND HE LANDED ON THE FIRST RUNWAY HE HAD IN SIGHT. IN ADDITION, THE CLOSED RUNWAY WAS MARKED BY A CROSS ON THE SOIL 50 FT BEYOND EACH END USING PERFORATED ORANGE PLASTIC COMMONLY USED FOR CONSTRUCTION BARRIERS. THE PILOT HAD A MEDICAL WAIVER FOR PARTIAL COLOR-BLINDNESS TO RED AND GREEN.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO RECOGNIZE THAT THE RUNWAY HE SELECTED FOR LANDING WAS CLOSED. FACTORS WHICH CONTRIBUTED TO THE ACCIDENT WERE: THE PILOT'S ANXIETY FOLLOWING THE NEAR-COLLISION, AND HIS LIMITED ABILITY TO DETECT THE ORANGE-COLORED MARKING.

Findings

Occurrence #1: NEAR COLLISION BETWEEN AIRCRAFT

Phase of Operation: APPROACH

Occurrence #2: UNDERSHOOT

Phase of Operation: APPROACH - VFR PATTERN - FINAL APPROACH

Findings

1. (C) WRONG RUNWAY - SELECTED - PILOT IN COMMAND
 2. (F) ANXIETY/APPREHENSION - PILOT IN COMMAND
 3. (F) VISUAL/AURAL DETECTION - PILOT IN COMMAND
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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

4. (F) TERRAIN CONDITION - SOFT
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Occurrence #4: COMPLETE GEAR COLLAPSED

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Factual Information

Pilot Information

Certificate:	Commercial	Age:	37, 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:	Class 1 Valid Medical-w/ waivers/lim	Last FAA Medical Exam:	October 16, 1991
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	432 hours (Total, all aircraft), 155 hours (Total, this make and model), 365 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MOONEY	Registration:	N3486N
Model/Series:	20F 20F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	680068
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	August 25, 1992 Annual	Certified Max Gross Wt.:	2740 lbs
Time Since Last Inspection:	4 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3400 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	IO-360-A1A
Registered Owner:	CHIEN, BRUCE B.	Rated Power:	200 Horsepower
Operator:	CHIEN, BRUCE B.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	SPI ,597 ft msl	Distance from Accident Site:	70 Nautical Miles
Observation Time:	09:50 Local	Direction from Accident Site:	5°
Lowest Cloud Condition:	Clear	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	220°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	23°C / 15°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	PEORIA , IL (PIA)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	09:45 Local	Type of Airspace:	Class G

Airport Information

Airport:	MARSHALL COUNTY C75	Runway Surface Type:	Asphalt
Airport Elevation:	569 ft msl	Runway Surface Condition:	Dry;Rough
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	2200 ft / 50 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	41.019142,-89.400001(est)

Administrative Information

Investigator In Charge (IIC):	Vallaster, J
Additional Participating Persons:	ROBERT D CONNAWAY; SPRINGFIELD , IL JOHN W RHODES; SPRINGFIELD , IL
Original Publish Date:	August 25, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=15533

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