



National Transportation Safety Board Aviation Accident Final Report

Location:	ATLANTIC CITY, NJ	Accident Number:	NYC86FA131
Date & Time:	05/17/1986, 2330 EDT	Registration:	N414NY
Aircraft:	CESSNA 414A	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	2 Fatal, 1 Serious, 2 Minor

Flight Conducted Under: Part 135: Air Taxi & Commuter - Non-scheduled

Analysis

DURING TKF GND RUN, AT A SPEED OF 95 KTS, THE PLT PULLED THE CONTROL WHEEL BACK TO LIFT OFF. THE CONTROL WHEEL, ACCORDING TO THE PLT, WOULD NOT GO BACK MORE THAN ABOUT 2 INCHES; WHICH IS LESS THAN HALF THE NORMAL FULL AFT TRAVEL. THE ACFT REACHED A SPEED OF ABOUT 105 KTS AND HAD TRAVELED MORE THAN HALF OF THE RWY LENGTH WHEN THE PLT ABORTED THE TKF. THE PLT WAS UNABLE TO STOP THE ACFT ON THE RWY. THE ACFT WENT OFF THE RUNWAY AND SUBSEQUENTLY COLLIDED WITH AN OCCUPIED CAR THAT WAS ON A NEARBY STREET. THE INVESTIGATION REVEALED THE LEFTSIDE VOR IND HAD LOOSENED FROM ITS MOUNTING CLAMP ON THE INSTRUMENT PANEL AND IT WAS LAYING AGAINST THE CONTROL WHEEL TUBE, BEHIND THE INSTRUMENT PANEL, LIMITING THE CONTROL WHEEL TO 2.5 INCHES OF REARWARD TRAVEL. THE PLT STATED THAT HE REMOVED THE CONTROL LOCK BEFORE ENGINE START AND PERFORMED A FLIGHT CONTROL CHECK BEFORE TKF.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: ON GROUND/WATER COLLISION WITH OBJECT
Phase of Operation: TAKEOFF - ROLL/RUN

Findings

1. (F) FLIGHT/NAV INSTRUMENTS,COURSE INDICATOR - DISCONNECTED
2. (F) FLT CONTROL SYST,ELEVATOR CONTROL - MOVEMENT RESTRICTED
3. (C) AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

Occurrence #2: OVERRUN
Phase of Operation: TAKEOFF

Findings

4. (C) ABORTED TAKEOFF - DELAYED - PILOT IN COMMAND
5. TERRAIN CONDITION - RUNWAY
6. (C) DISTANCE - INADEQUATE - PILOT IN COMMAND
7. AIRCRAFT PERFORMANCE - EXCEEDED
8. (C) ALL AVAILABLE RUNWAY - EXCEEDED - PILOT IN COMMAND
9. (C) JUDGMENT - INACCURATE - PILOT IN COMMAND

Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT
Phase of Operation: TAKEOFF

Findings

10. OBJECT - VEHICLE

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	35, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine	Toxicology Performed:	Yes
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	04/01/1986
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	4010 hours (Total, all aircraft), 76 hours (Total, this make and model), 3757 hours (Pilot In Command, all aircraft), 64 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N414NY
Model/Series:	414A 414A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	414A0242
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	04/21/1986, 100 Hour	Certified Max Gross Wt.:	6750 lbs
Time Since Last Inspection:	16 Hours	Engines:	2 Reciprocating
Airframe Total Time:	2054 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	TSIO-520-NB
Registered Owner:	ISLIP AIRCO INC.	Rated Power:	325 hp
Operator:	EAST COAST AIRWAYS,LTD	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Bright
Observation Facility, Elevation:	ACY, 76 ft msl	Distance from Accident Site:	8 Nautical Miles
Observation Time:	2250 EDT	Direction from Accident Site:	330°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	8 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Calm /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	20° C / 16° C
Precipitation and Obscuration:			
Departure Point:	ATLANTIC CITY, NJ (A1Y)	Type of Flight Plan Filed:	None
Destination:	ATLANTIC CITY, NJ (A1Y)	Type of Clearance:	None
Departure Time:	0000	Type of Airspace:	

Airport Information

Airport:	BADER FIELD (A1Y)	Runway Surface Type:	Asphalt
Airport Elevation:	9 ft	Runway Surface Condition:	Dry
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	2594 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 Minor	Aircraft Damage:	Destroyed
Passenger Injuries:	1 Fatal, 1 Serious	Aircraft Fire:	On-Ground
Ground Injuries:	1 Fatal	Aircraft Explosion:	On-Ground
Total Injuries:	2 Fatal, 1 Serious, 2 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	DENNIS L JONES	Report Date:	
Additional Participating Persons:	EDWIN E CHRISTIANSEN; PHILADELPHIA, PA MEL BRIDGEWATER; MOBILE, AL TERRY SPATH; WITCHITA, KS WILLIAM O'KEEFE; TRENTON, NJ		
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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