



Aviation Investigation Final Report

Location: BUFFALO, New York **Incident Number:** NYC84IA271

Date & Time: July 26, 1984, 16:58 Local Registration: N518PE

Aircraft: BOEING 727-232 Aircraft Damage: Minor

Defining Event: Injuries: 105 None

Flight Conducted Under: Part 121: Air carrier - Scheduled

Analysis

DURING THE DEPARTURE FROM NEWARK, NJ, THE AIRCREW NOTED A VIBRATION WHICH CEASED AFTER THE GEAR WAS RETRACTED. THE CREW SUSPECTED THAT A TIRE WAS OUT-OF-ROUND OR A GEAR DOOR WAS VIBRATING & CONTINUED THE FLT. DURING THE APCH TO BUFFALO, NY, THE VIBRATION OCCURRED AGAIN WHEN THE LANDING GEAR WAS EXTENDED, BUT CEASED ON FINAL APCH. THE APCH & LANDING WERE CONTINUED WITHOUT FURTHER INCIDENT. AFTER LANDING, AN EXAM OF THE ACFT, GEAR & GEAR DOORS REVEALED NO REASON FOR THE VIBRATION. HOWEVER, DURING THE FLT, A PIECE OF THE LEFT TRAILING EDGE FLAP HAD SEPARATED. IT HAD SEPARATED ON FINAL APCH & HAD HIT A PARKED CAR CAUSING MINOR DAMAGE. THERE WAS EVIDENCE OF IMPROPER SURFACE PREPARATION & BONDING DURING A PREVIOUS REPAIR OF THE FLAP.

Probable Cause and Findings

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

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: APPROACH - VFR PATTERN - FINAL APPROACH

Findings

1. (C) FLIGHT CONTROL, FLAP - FAILURE, PARTIAL

- 2. (C) MAINTENANCE IMPROPER OTHER MAINTENANCE PERSONNEL
- 3. FLÍGHT CONTROL, FLAP VIBRATION
- 4. (C) FLIGHT CONTROL, FLAP FAILURE, TOTAL
- 5. FLÍGHT CONTROL, FLÁP SEPARATION

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Factual Information

Pilot Information

Certificate:	Airline transport	Age:	33,Male
Airplane Rating(s):	Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	May 1, 1984
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	4500 hours (Total, all aircraft), 100 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	BOEING	Registration:	N518PE
Model/Series:	727-232 727-232	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Transport	Serial Number:	20641
Landing Gear Type:	Retractable - Tricycle	Seats:	154
Date/Type of Last Inspection:	April 25, 1984 Continuous airworthiness	Certified Max Gross Wt.:	210000 lbs
Time Since Last Inspection:		Engines:	3 Turbo fan
Airframe Total Time:	30025 Hrs	Engine Manufacturer:	P&W
ELT:	Installed	Engine Model/Series:	JT8D-15
Registered Owner:	PEOPLE EXPRESS AIRLINES	Rated Power:	13750 Lbs thrust
Operator:		Operating Certificate(s) Held:	Flag carrier (121)
Operator Does Business As:		Operator Designator Code:	PEXA

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	BUF		Distance from Accident Site:	
Observation Time:			Direction from Accident Site:	
Lowest Cloud Condition:	Clear		Visibility	
Lowest Ceiling:	Broken / 500	00 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	/		Turbulence Type Forecast/Actual:	/
Wind Direction:	340°		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:			Temperature/Dew Point:	24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation			
Departure Point:	NEWARK	(EWR)	Type of Flight Plan Filed:	IFR
Destination:	BUFFALO	(BUF)	Type of Clearance:	IFR
Departure Time:	16:07 Local		Type of Airspace:	Class E

Airport Information

Airport:		Runway Surface Type:
Airport Elevation:	0 ft msl	Runway Surface Condition:
Runway Used:	0	IFR Approach:
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:

Wreckage and Impact Information

Crew Injuries:	7 None	Aircraft Damage:	Minor
Passenger Injuries:	98 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	105 None	Latitude, Longitude:	42.930019,-78.750518(est)

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Administrative Information

Investigator In Charge (IIC): Taylor, Vernon

Additional Participating Persons: GILBERT J RUGULO; TETERBORO , NJ LAWRENCE LEE; TETERBORO , NJ THOMAS A WELMAN; TETERBORO , NJ

Original Publish Date:

Last Revision Date: Investigation Class: Class

Note: Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=35446

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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