



National Transportation Safety Board Aviation Incident Final Report

Location:	ATLANTA, GA	Incident Number:	ATL87IA034
Date & Time:	12/02/1986, 2305 EST	Registration:	N802MX
Aircraft:	de Havilland DHC-8-101	Aircraft Damage:	Minor
Defining Event:		Injuries:	7 None

Flight Conducted Under: Part 121: Air Carrier - Scheduled

Analysis

AT ABOUT 4,000 FT MSL, CPT ON SCH DOM FLT REPORTED LOUD POP AND SUB SHUTDOWN OF RT ENG. SMELL OF SMOKE AND VISUAL CONFIRMATION OF FIRE IN RT NACELLE. SHIPS FIRE EXT ACTIVATED DURING RETURN TO DEPT. ARPT. LANDED WITHOUT FURTHER INCIDENT. INVESTIGATION REVL'D FAILURE OF TURBINE STATOR RETAINING RING P&W PART NO 3034363. P&W HAD OUTSTANDING S.B. ISSUED AT THE TIME. THIS WAS ONLY ENG IN OPER FLT THAT S.B. HAD NOT BEEN COMP ON. THIS ENG WAS ALSO LEAD ENG FOR OPER FLT.

Probable Cause and Findings

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

Findings

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

Findings

1. (C) TURBINE ASSEMBLY,RING - FAILURE,TOTAL
2. (C) MAINTENANCE,SERVICE BULLETIN/LETTER - NOT FOLLOWED - COMPANY MAINTENANCE PERSONNEL

Occurrence #2: FIRE

Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

3. FIRE EXTINGUISHING EQUIPMENT - INITIATED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	30, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Unknown Unknown	Last FAA Medical Exam:	
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	7450 hours (Total, all aircraft), 1000 hours (Total, this make and model), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	de Havilland	Registration:	N802MX
Model/Series:	DHC-8-101 DHC-8-101	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Transport	Serial Number:	013
Landing Gear Type:	Retractable - Tricycle	Seats:	39
Date/Type of Last Inspection:	AAIP	Certified Max Gross Wt.:	33000 lbs
Time Since Last Inspection:	80 Hours	Engines:	2 Turbo Prop
Airframe Total Time:	3352 Hours	Engine Manufacturer:	P&W
ELT:	Not installed	Engine Model/Series:	PW120ABS-632
Registered Owner:	WESTINGHOUSE CREDIT CORP.	Rated Power:	2000 hp
Operator:	METRO EXPRESS, INC.	Operating Certificate(s) Held:	Commuter Air Carrier (135)
Operator Does Business As:	EASTERN METRO EXPRESS, INC.	Operator Designator Code:	EMXA

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	ATL, 1026 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	2254 EST	Direction from Accident Site:	0°
Lowest Cloud Condition:	Scattered / 500 ft agl	Visibility	8 Miles
Lowest Ceiling:	Overcast / 2800 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	270°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	8° C / 5° C
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	IFR
Destination:	HUNTSVILLE, AL (HSV)	Type of Clearance:	IFR
Departure Time:	0000	Type of Airspace:	Class E

Airport Information

Airport:	ATLANTA HARTSFIELD (ATL)	Runway Surface Type:	
Airport Elevation:	1026 ft	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	ILS
Runway Length/Width:		VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

Crew Injuries:	3 None	Aircraft Damage:	Minor
Passenger Injuries:	4 None	Aircraft Fire:	In-Flight
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	7 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	WALTER G STINER	Report Date:	
Additional Participating Persons:	GUY W BONEY ANSON LANG JOE WALL; ATLANTA, GA		
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/ .		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).