

National Transportation Safety Board
Washington, DC 20594

Printed on : 11/11/2015 11:29:45 PM

Brief of Incident

Adopted 07/10/1989

SEA87IA119					
File No. 5025	06/19/1987	SEATTLE ,WA	Aircraft Reg No. N813PH	Time (Local): 14:15 PDT	
Make/Model:	De Havilland/DHC-8-101		Fatal	Serious	Minor/None
Engine Make/Model:	P&W / PW-120		Crew 0	0	4
Aircraft Damage:	Minor		Pass 0	0	37
Number of Engines:	2				
Operating Certificate(s):	Flag Carrier/Domestic				
Name of Carrier:	HORIZON AIR INDUSTRIES, INC.				
Type of Flight Operation:	Scheduled; Domestic; Passenger Only				
Reg. Flight Conducted Under:	Part 121: Air Carrier				
Last Depart. Point:	SEATTLE, WA		Condition of Light:	Day	
Destination:	PORTLAND, OR		Weather Info Src:	Weather Observation Facility	
Airport Proximity:	On Airport/Airstrip		Basic Weather:	Visual Conditions	
Airport Name:	BOEING FIELD		Lowest Ceiling:	None	
Runway Identification:	13R		Visibility:	25.00 SM	
Runway Length/Width (Ft):	10000 / 200		Wind Dir/Speed:	290 / 006 kts	
Runway Surface:	Asphalt; Concrete		Temperature (°C):	23	
Runway Surface Condition:	Dry		Precip/Obscuration:		
Pilot-in-Command	Age: 31		Flight Time (Hours)		
Certificate(s)/Rating(s)			Total All Aircraft:	7000	
Airline Transport; Multi-engine Land; Single-engine Land			Last 90 Days:	Unk/Nr	
			Total Make/Model:	500	
Instrument Ratings			Total Instrument Time:	UnK/Nr	
Airplane					

*** Note: NTSB investigators used data provided by various sources and may not have traveled in support of this investigation to prepare this aircraft incident report. ***

THE CREW OF THE SCHEDULED AIRLINE PASSENGER FLIGHT EXPERIENCED AN EXPLOSION AND FIRE IN THE RIGHT ENGINE AT APPROX 800 FT AGL DURING INITIAL CLIMB AFTER TAKEOFF. THE PILOT SHUT THE ENGINE DOWN, ACTIVATED TWO FIRE BOTTLES, WHICH EXTINGUISHED THE FIRE AND LANDED WITHOUT FURTHER INCIDENT. A HIGH PRESSURE FUEL CONTROL UNIT FUEL RETURN LINE, INSTALLED NEAR THE STARTER GENERATOR, WAS FOUND TO BE LEAKING. A LABORATORY EXAMINATION REVEALED PREVIOUS EXTERNAL DAMAGE TO THE LINE.

Brief of Incident (Continued)

SEA87IA119				
File No. 5025	06/19/1987	SEATTLE ,WA	Aircraft Reg No. N813PH	Time (Local): 14:15 PDT

Occurrence #1: FIRE/EXPLOSION
Phase of Operation: CLIMB - TO CRUISE

Findings

1. (C) FUEL SYSTEM,LINE - PREVIOUS DAMAGE
2. (C) MAINTENANCE - IMPROPER - OTHER MAINTENANCE PERSONNEL
3. (C) FUEL SYSTEM,LINE - LEAK

Findings Legend: (C) = Cause, (F) = Factor