
Gear fire, McDonnell Douglas MD-83, April 17, 1994

Micro-summary: This McDonnell Douglas MD-83 experienced a gear fire after landing.


Event Date: 1994-04-17 at 1855 PDT


Investigative Body: National Transportation Safety Board (NTSB), USA


Investigative Body's Web Site: <http://www.nts.gov/>

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		NTSB ID: SEA94IA103		Aircraft Registration Number: N931AS	
		Occurrence Date: 04/17/1994		Most Critical Injury: None	
		Occurrence Type: Incident		Investigated By: NTSB	
Location/Time					
Nearest City/Place SEATTLE		State WA	Zip Code 98188	Local Time 1855	Time Zone PDT
Airport Proximity: On Airport		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer MCDONNELL DOUGLAS		Model/Series MD-83		Type of Aircraft Airplane	
Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On April 17, 1994, approximately 1855 Pacific daylight time (PDT), an Alaska Airlines McDonnell Douglas MD-83, N931AS, experienced a fire in the area of the left main gear while taxiing to the passenger loading gate at Seattle-Tacoma International Airport, Seattle, Washington. After stopping at the gate and requesting fire equipment, the captain ordered an emergency evacuation of the aircraft. There were no reported injuries to the 132 passengers, six crew members, or the single jump seat occupant. The aircraft, which departed San Francisco International Airport on an IFR flight plan at 1655 PDT, was operating in visual meteorological conditions at the time of the incident. This mishap did not involve the activation of an ELT.</p> <p>According to tower personnel, smoke was seen coming from the area of the left main gear as the aircraft taxied to the gate. The tower notified the aircrew of the situation and, as the aircraft stopped at the gate, flames began coming from the same area, prompting the captain to initiate an emergency evacuation. Approximately half of the occupants evacuated through the normal jetway exit, while the other half exited using the tail cone slide.</p> <p>The investigation has revealed that the left main gear wheel hub experienced a fatigue fracture which originated in the hub grease dam groove. Subsequent to the hub failure, hydraulic fluid, which was leaking from a damaged brake component, was ignited by a hot brake pad.</p>					
FACTUAL REPORT - AVIATION					
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 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: SEA94IA103				
		Occurrence Date: 04/17/1994				
		Occurrence Type: Incident				
Landing Facility/Approach Information						
Airport Name SEATTLE-TACOMA INT.		Airport ID: SEA	Airport Elevation 430 Ft. MSL	Runway Used 34R	Runway Length 11900	Runway Width 150
Runway Surface Type: Asphalt						
Runway Surface Condition: Dry						
Type Instrument Approach:						
VFR Approach/Landing: Full Stop						
Aircraft Information						
Aircraft Manufacturer MCDONNELL DOUGLAS		Model/Series MD-83		Serial Number 49232		
Airworthiness Certificate(s): Transport						
Landing Gear Type: Retractable - Tricycle						
Homebuilt Aircraft? No		Number of Seats: 147	Certified Max Gross Wt. 149500 LBS		Number of Engines: 2	
Engine Type: Turbo Fan		Engine Manufacturer: P&W		Model/Series: JT8D-217A	Rated Power: 20850 LBS	
- Aircraft Inspection Information						
Type of Last Inspection Continuous Airworthiness		Date of Last Inspection 04/1994	Time Since Last Inspection 41 Hours		Airframe Total Time 25773 Hours	
- Emergency Locator Transmitter (ELT) Information						
ELT Installed?		ELT Operated?		ELT Aided in Locating Accident Site?		
Owner/Operator Information						
Registered Aircraft Owner ALASKA AIRLINES		Street Address P.O. BOX 68900				
		City SEATTLE		State WA	Zip Code 98168	
Operator of Aircraft Same as Reg'd Aircraft Owner		Street Address Same as Reg'd Aircraft Owner				
		City		State	Zip Code	
Operator Does Business As:				Operator Designator Code: ASAA		
- Type of U.S. Certificate(s) Held:						
Air Carrier Operating Certificate(s): Flag Carrier/Domestic						
Operating Certificate:			Operator Certificate:			
Regulation Flight Conducted Under: Part 121: Air Carrier						
Type of Flight Operation Conducted: Scheduled; Domestic; Passenger Only						
FACTUAL REPORT - AVIATION						

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: SEA94IA103
	Occurrence Date: 04/17/1994
	Occurrence Type: Incident

First Pilot Information				
Name On File	City On File	State On File	Date of Birth On File	Age 34

Sex: M	Seat Occupied: Left	Principal Profession: Civilian Pilot	Certificate Number: On File
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Certificate(s): Airline Transport; Commercial

Airplane Rating(s): Multi-engine Land; Single-engine Land

Rotorcraft/Glider/LTA: None

Instrument Rating(s): Airplane

Instructor Rating(s): Airplane Single-engine; Instrument Airplane

Type Rating/Endorsement for Accident/Incident Aircraft? Yes	Current Biennial Flight Review?
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Medical Cert.: Class 1	Medical Cert. Status: Valid Medical--no waivers/lim.	Date of Last Medical Exam: 02/1994
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- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	8899	3764								
Pilot In Command(PIC)	3692	379								
Instructor										
Last 90 Days	141	141								
Last 30 Days	52	52								
Last 24 Hours	6	6								

Seatbelt Used? Yes	Shoulder Harness Used? Yes	Toxicology Performed? No	Second Pilot? Yes
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Flight Plan/Itinerary

Type of Flight Plan Filed: IFR	
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Departure Point SAN FRANCISCO	State CA	Airport Identifier SFO	Departure Time 1655	Time Zone PDT
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Destination Same as Accident/Incident Location	State	Airport Identifier	
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Type of Clearance:

Type of Airspace: Class D

Weather Information

Source of Briefing:

Method of Briefing:

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	Occurrence Type: Incident

Weather Information					
WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
	0000		0 Ft. MSL	0 NM	0 Deg. Mag.
Sky/Lowest Cloud Condition: Scattered			17000 Ft. AGL		Condition of Light: Dusk
Lowest Ceiling: None			0 Ft. AGL	Visibility: 20 SM	Altimeter: 30.00 "Hg
Temperature: 17 °C	Dew Point: 10 °C	Wind Direction: 340			Density Altitude: Ft.
Wind Speed: 3	Gusts:	Weather Conditions at Accident Site: Visual Conditions			
Visibility (RVR): 0 Ft.	Visibility (RVV) 0 SM	Intensity of Precipitation: Unknown			
Restrictions to Visibility: None					
Type of Precipitation: None					

Accident Information		
Aircraft Damage: Minor	Aircraft Fire: Ground	Aircraft Explosion: None

Classification: U.S. Registered/U.S. Soil					
- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot				1	1
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants				4	4
Other Crew					
Passengers				133	133
- TOTAL ABOARD -				139	139
Other Ground	0	0	0		0
- GRAND TOTAL -	0	0	0	139	139

National Transportation Safety Board

FACTUAL REPORT

AVIATION



NTSB ID: SEA94IA103

Occurrence Date: 04/17/1994

Occurrence Type: Incident

Administrative Information

Investigator-In-Charge (IIC)

ORRIN K. ANDERSON,

Additional Persons Participating in This Accident/Incident Investigation:

JOHN HUBBARD
SEATTLE FAA FSDO
RENTON, WA,