Tail pipe fire and evacuation, Douglas DC-9-41, January 24, 2002

Micro-summary: This Douglas DC-9-41 experienced a tail pipe fire, resulting in an emergency evacaution.

Event Date: 2002-01-24 at 1400 EST

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

Investigative Body's Web Site: http://www.ntsb.gov/

Cautions:

1. Accident reports can be and sometimes are revised. Be sure to consult the investigative agency for the latest version before basing anything significant on content (e.g., thesis, research, etc).

2. Readers are advised that each report is a glimpse of events at specific points in time. While broad themes permeate the causal events leading up to crashes, and we can learn from those, the specific regulatory and technological environments can and do change. Your company's flight operations manual is the final authority as to the safe operation of your aircraft!

3. Reports may or may not represent reality. Many many non-scientific factors go into an investigation, including the magnitude of the event, the experience of the investigator, the political climate, relationship with the regulatory authority, technological and recovery capabilities, etc. It is recommended that the reader review all reports analytically. Even a "bad" report can be a very useful launching point for learning.

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National Transportation Safety Board	NTSB ID: CHI02LA069	
FACTUAL REPORT	Occurrence Date: 01/24/2002	
AVIATION ETYBON	Occurrence Type: Accident	
Narrative (Continued)		

One passenger, who exited the 1R door, received a broken wrist during the evacuation. This passenger reported, "A flight attendant motioned to me to leave by the galley door by pointing with his finger. I crouched down as best I could and sat on the slide. The next memory I had was laying face down on the tarmac, in pain, wondering how I got there. My first instinct was to stand up and walk to the other passengers. A firefighter stopped me and said that I fell from a further distance than I thought I did and that I shouldn't move until I got checked out." At witness reported that the passenger stepped out onto the slide during the evacuation. The passenger bounced down the slide and fell over the side when approximatley four to five feet off the ground.

The investigation revealed the engine start fuel scheduling for the Fuel Control Unit was high. In addition, the ignition exciter box and igniter plugs were tested. The ignition exciter box was found to operate intermittently on the D.C. circuit which would be used for engine start.

National Transportation Safety Board	NTS	NTSB ID: CHI02LA069									
FACTUAL REPORT		Occurrence Date: 01/24/2002									
AVIATION	Occ	Occurrence Type: Accident									
Landing Facility/Approach Informa											
Airport Name	Airp	rport ID: Airport Elevation Runway Used Runway L					ay Length	n Ru	nway Width		
Indianapolis International		ND 797 Ft. MSL									
Runway Surface Type: Unknown											
Runway Surface Condition: Unknown											
Type Instrument Approach: Unknown											
VFR Approach/Landing: Unknown											
Aircraft Information											
Aircraft Manufacturer McDonnell Douglas		Model/ DC-9						Serial N 47178	Number 8-323		
Airworthiness Certificate(s): Transport											
Landing Gear Type: Retractable - Tricy	/cle										
Homebuilt Aircraft? No Numb			d Max Gross V		115000	LBS	r of Engines: 2				
Engine Type: Turbo Jet		Engine Manufacturer:Model/Series:Pratt & WhitneyJT8D-11						Rated Power: 15000 LBS			
- Aircraft Inspection Information											
Type of Last Inspection							nce Last Inspe			Fotal Time	
AAIP		09	09/2001					Ho	ours		76188 Hours
- Emergency Locator Transmitter (ELT)	nformation				1						
ELT Installed? No	ELT Operated? N	0			ELT A	Aided i	n Locating Ac	cident S	Site? No		
Owner/Operator Information											
Registered Aircraft Owner			Street A	ddress 5101 No	orthwes	t Drive	e				
Northwest Airlines, Inc.		City Saint Paul								State MN	Zip Code 55111
			Street A		ui					IVIIN	
Operator of Aircraft			Same as Reg'd Aircraft Owner								
Same as Reg'd Aircraft Owner	City							State	Zip Code		
Operator Does Business As: Northwest	Airlines					0	perator Desig	nator Co	ode: NW	AA	
- Type of U.S. Certificate(s) Held:											
Air Carrier Operating Certificate(s): Flag	CamenDomestic										
Operating Certificate:				Operator (Certifica	ite:					
Regulation Flight Conducted Under: Par	t 121: Air Carrier										
Type of Flight Operation Conducted: Scheduled; Domestic; Passenger Only											
FACTUAL REPORT - AVIATION Page 2											

Nation	TRANS	P. Safety Boord	1	NTSB ID:	CHI02LA	069									
F	ACTUAL RI	PART	1	Occurren	Occurrence Date: 01/24/2002										
Г Г	Z	S 2		Occurrence Type: Accident					-						
	AVIATI			Occurren	ce Type: A	ccident									
First Pilo	ot Information													Age	
Name City															
On File		On File									On File	Or	n File	44	
Sex: M	Sex: M Seat Occupied: Left Principal Profession: Civilian Pilot Certificate Number: On File										-				
Certificate(s): Airline Transport; Flight Engineer															
Airplane Rating(s): Multi-engine Land															
Rotorcraft/	Glider/LTA: None	-													
Instrument Rating(s): Airplane Instructor Rating(s): None															
Type Ratin	ng/Endorsement fo	or Accident/Ir	ncident Aircra	^{aft?} Yes			C	Current B	iennial Fl	ight R	eview?				
Medical Ce	ert.: Class 1	Medica	al Cert. Statu	is: Valid Me	dicalno w	/aivers/	lim.		Date	of La	st Medical	Exam	n: 08/2001		
		1													
- Flight Tir	me Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	Ni	ght	Actual	Instrument Sin	nulated	Rotorcraft		Glider	Lighter Than Air	
Total Time	9	12204	2417												
Pilot In Co	ommand(PIC)	3417				_									
Instructor						_									
Last 90 Da						_									
Last 30 Da		52 3									_				
Seatbelt U		· · · · · · · · · · · · · · · · · · ·	ldor Hornoo	s Used? No			Tovic		rformed?	No	<u> </u>	Socor	nd Pilot? Ye		
Sealbeil U		51100		S USEU? INU			TOXICO	ology i e	nonneu:	INU		0000		5	
Elight Dk	on/Itinorom														
	an/Itinerary ight Plan Filed: IF														
Departure		ĸ					Ctoto		Airport Ide	ntifia		orture	Time	Time Zone	
		<i></i>							irport Identifier		Departure Time		e nime		
	Same as Accident/Incident Location IND EST									ESI					
Destination										irport Identifier					
Detroit MI DTW															
Type of Clearance: None															
Type of Ai	rspace: Class	В													
Weather	Information														
Source of Briefing:															
Company															
Mathadaf	Driefingu														
Method of	Dileiling.														
				FACTUAI	REPORT	- AVL	ATIO	Ν						Page 3	

Nationa	TRANSP al Transportation Safet	y Board	N	NTSB ID: CHI02LA069										
	ACTUAL REPO		0	Occurrence Date: 01/24/2002					1					
	Z AVIATION ETYBOR			Occurrence Type: Accident										
Weather	Information								1					
WOF ID	Observation Time	Time Zone	WO	Elevat	ion	WOF D	stance From	n Acci	dent Site	lent Site Direction From Accident S				
IND	1355	EST		797 Ft	MSL				NM	NM Deg. M				
Sky/Lowes	Sky/Lowest Cloud Condition: Ft. AGL Condition of Light: Day													
Lowest Ce	illing: Overcast		1	900 Ft.	AGL	Visib	ility:	10	SM	Alti	meter:	30.00	"Hg	
Temperatu	ure: 3 °C	Dew Point:		-1 °C	Wind	Direction:	210			De	nsity Altitude:		Ft.	
Wind Spee	ed: 15	Gusts:			Weath	ner Condt	ions at Accid	dent S	ite: Visual (Cond	itions			
Visibility (F	RVR): F	t. Visibility	(RVV)		SM	Intensit	y of Precipita	ation:						
	s to Visibility: None		. ,			· · ·	<u> </u>							
Type of Pro	ecipitation: None													
Type of Th														
Accident	Information													
Accident Information Aircraft Damage: None Aircraft Fire: Ground Aircraft Explosion None														
				Grant i ii						510310	in None			
	ion: U.S. Registered/						70741							
	mmary Matrix	Fatal	Serious	Mino	or	None	TOTAL							
First Pi Second						1	1							
Studen						1	1							
	nstructor													
Check														
						2								
	Attendants	+				3	3							
Other C				4										
Passer	-			1		69	70							
- TOTAL A				1	_	74	75							
Other C	D TOTAL -			1	-	74	75							
			FA	CTUAL	REPO	RT - AV	IATION						Page 4	

National Transportation Safety Board	NTSB ID: CHI02LA069	
FACTŲAL REPORT	Occurrence Date: 01/24/2002	
AVIATION	Occurrence Type: Accident	
Administrative Information		
Investigator-In-Charge (IIC) Pamela S. Sullivan		
Additional Persons Participating in This Accident/I Jimmie D Stanley FAA Inspector FAA 8303 W. Southern Ave. Indianapolis, IN 46241	ncident Investigation:	