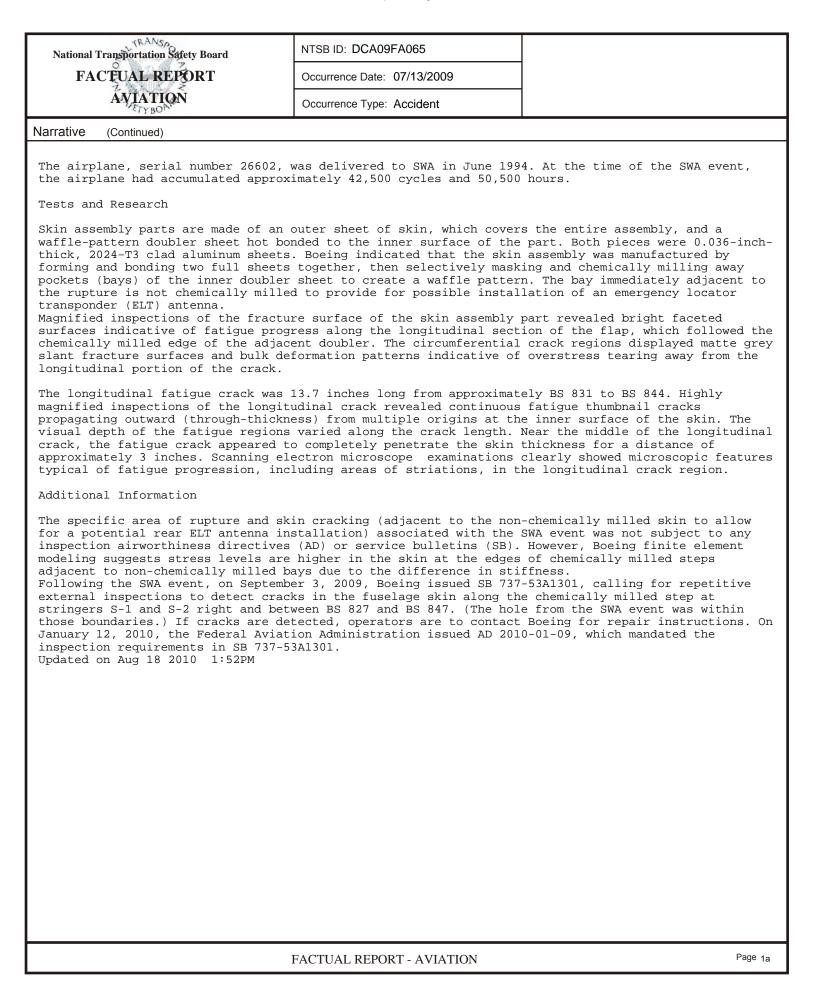
National Transportation Safety Board	NTSB	ID: DCA09FA0	65	Aircraft Regist	Aircraft Registration Number: N387SW				
FACTUAL REPORT		ence Date: 07/1	3/2009	Most Critical Ir	Most Critical Injury: None				
AVIATION	Occurr	ence Type: Acci	dent	Investigated B	Investigated By: NTSB				
Location/Time	I								
Nearest City/Place	State	Zip Code	Local Time	Time Zone					
Charleston	wv	25311	1745	EDT					
Airport Proximity: Off Airport/Airstrip	Distance Fron	n Landing Facility							
Aircraft Information Summary									
Aircraft Manufacturer		Model/Serie	es		Type of Aircraft				
BOEING		737/3H4				Airplane			
Revenue Sightseeing Flight: No		Air	Medical Transpo	ort Flight: No					
Narrative									
Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident: *** Note: NTSB investigators either traveled in support of this investigation or conducted a significant amount of investigative work without any travel, and used data obtained from various sources to prepare this aircraft accident report. ***									
History of Flight									
On July 13, 2009, about 1745 eastern daylight time, Southwest Airlines (SWA) flight 2294, a Boeing 737-3H4 (737), N387SW, experienced rapid decompression while in cruise flight at approximately 35,000 feet when the fuselage crown skin ruptured just forward of the vertical stabilizer. Passenger oxygen masks deployed automatically. The flight crew declared an emergency, and the flight landed uneventfully at Yeager Airport (CRW), Charleston, West Virginia. The flight, which was on an instrument flight rules flight plan, had departed Nashville International Airport, Nashville, Tennessee, and was scheduled to fly to Baltimore-Washington International Airport, Baltimore, Maryland. Flight data revealed that the airplane took off and climbed for about 25 minutes to an altitude of approximately 35,000 feet. At that point, the cabin altitude warning activated, and the captain disengaged the autopilot and began a descent. The altitude warning ceased as the airplane descended through approximately 9,000 feet. Cockpit voice recorder data and postincident interviews revealed that the flight and cabin crewmembers followed appropriate cockpit procedures following the rapid decompression and during the emergency descent and landing at CRW.									
Injuries to Persons									
No injuries occurred during the event.									
Damage to Aircraft A three-sided hole (flap) was located in skin assembly part number 65C35792-3 in the fuselage crown skin near the leading edge of the vertical stabilizer and measured about 17.4 inches longitudinally and between 11.5 and 8.6 inches circumferentially.									
Personnel Information									
The captain had accumulated 22,500 total flight hours, 19,300 hours of which were in the 737. He held an airline transport pilot (ATP) certificate and a class one medical certificate with a limitation/waiver for corrective lenses.									
The first officer had accumulated 10,100 total flight hours, 2,240 hours of which were in the 737. He held an ATP certificate and a class two medical certificate with no limitations/waivers.									
Aircraft Information									



National Transportation Safety Board	NTS	NTSB ID: DCA09FA065									
FACTUAL REPORT	Оссі	urrence l	Date: (07/13/2009							
AVIATION	Оссі	urrence -	Type: /	Accident							
Landing Facility/Approach Information											
Airport Name	Airport	Airport ID: Airport Elevation Runway Use					y Length	Rur	way Width		
Yeager Airport, Charleston, WV	CRW	CRW Ft. MSL N/A			Ą						
Runway Surface Type:											
Runway Surface Condition:											
Approach/Arrival Flown: NONE											
VFR Approach/Landing:											
Aircraft Information											
Aircraft Manufacturer BOEING			/lodel/S 737/3⊢					Serial N 26602	umber		
Airworthiness Certificate(s): Transport											
Landing Gear Type: Retractable - Tricycle											
Amateur Built Acft? No Number of	Ce	ertified	Max Gross Wt.	LBS Numbe			er of Engines: 2				
Engine Type:	Engin	ne Mani	ufacturer:	Model/Sei	Model/Series:			ed Power:			
- Aircraft Inspection Information	- Aircraft Inspection Information										
Type of Last Inspection		Date of	Date of Last Inspection Time Sir			nce Last Inspe	ection	A	Airframe T		
Continuous Airworthiness		06/20	06/2009				Ho	ours	5	0888 Hours	
- Emergency Locator Transmitter (ELT) Inform	ation										
ELT Installed?/Type No	ELT O	ELT Operated? No ELT Aid			ded in Locating	g Accide	ent Site?	No			
Owner/Operator Information			_								
Registered Aircraft Owner		Str	Street Address One Federal Street								
US Bank NA Trustee	City							State	Zip Code		
		Str	reet Ad	Boston					MA	02110	
Operator of Aircraft				2702 Love Fie	eld Drive	e					
SOUTHWEST AIRLINES CO			City Dallas						State TX	Zip Code 75235	
Operator Does Business As: Operator Designator Code: SWAA											
- 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 Page 2											

National Transportation	So n Safety Board	1	NTSB ID: DCA09FA065									
FACTUAL R	7		Occurrence Date: 07/13/2009					1				
Z Z	S 2							-				
ETYBO	AVIATION Occurrence Type: Accident											
First Pilot Information												
Name City									Stat	e	Date of Birth	Age
On File	On File									File	On File	53
Sex: M Seat Occupied: Left Occupational Pilot? Yes Certificate Number: On File										•		
Certificate(s): Airline Transport; Commercial; Private												
Airplane Rating(s): Multi-engine Land; Single-engine Land												
Rotorcraft/Glider/LTA: Nor	e											
Instrument Rating(s): Airp	lane											
Instructor Rating(s): Nor	le											
Current Biennial Flight Revi	ew? 06/2009	9										
Medical Cert.: Class 1	Medica	al Cert. Statu	s: With Wa	ivers/Limit	ations			Date o	f Last Me	edical E	Exam: 02/2009	
	I											
- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Mult-Engine	Night	Night Ins Actual		Instrument I Simulated		Rotorcraft	Glider	Lighter Than Air
Total Time	22500	19300			20	00	3	00				
Pilot In Command(PIC)	17500	15200										
Instructor												
Instruction Received												
Last 90 Days	225	225										
Last 30 Days	75	75										
Last 24 Hours												
Seatbelt Used? Yes Shoulder Harness Used? Yes					То	Toxicology Performed? No Second Pilot? Yes						es
Flight Plan/Itinerary												
Type of Flight Plan Filed: U	Inknown											
Departure Point					S	State	A	irport Iden	tifier	Depa	arture Time	Time Zone
Nashville								BNA				CDT
Destination	Destination							Airport Identifier				1
Baltimore						MD BV		BWI				
Type of Clearance: IFR												
Type of Airspace:												
Weather Information												
Úąų œ∕aSource of Wx Information:												
FACTUAL REPORT - AVIATION Page 3								Page 3				

Nationa	al Transportation Safety	NTSB ID: DCA09FA065										
F	ACTUAL REPOR	RT	Occurrent	Occurrence Date: 07/13/2009				1				
	AVIATION FTYBON			Occurrence Type: Accident				1				
Weather.			Occurrence Type. Accident									
WOF ID	Weather Information WOF ID Observation Time Time Zone WOF Elevation WOF Distance From Acci							dont Sito		Direction From Accident Site		
WOPID	Observation nine	Time Zone				Statice FIUI	I ACCIO	Jeni Sile		Direction From Accident Site		
			Ft	. MSL				NM		Deg. Mag.		
Sky/Lowes	st Cloud Condition:			Ft. AG					of Ligl	nt:		
Lowest Ce	iling:		Ft.	Ft. AGL Visibili				SM	Alti	imeter: "Hg		
Temperatu	ure: °C	Dew Point:	°C	Weat	her Condit	er Conditions at Accident Site:						
Wind Dired	ction:	Wind Spee	d:		Wind	Gusts:						
Visibility (F	RVR): Ft	. Visibility (R	.VV)	SM								
	d/or Obscuration:											
	Information											
Aircraft Da	mage: Substantial		Aircraft Fir	e: None)			Aircraft Exp	olosio	n None		
- Injury Su	mmary Matrix	Fatal Se	erious Mino	or	None	TOTAL						
First Pi	ilot				1	1						
Secon	d Pilot				1	1						
Studer	nt Pilot											
Flight I	nstructor											
Check	Pilot											
Flight E	Engineer											
Cabin /	Attendants				3	3						
Other (Crew											
Passer	ngers				126	126						
- TOTAL /	ABOARD -				131	131						
Other 0	Ground											
- GRANI	D TOTAL -				131	131						
	FACTUAL REPORT - AVIATION Page 4											

National Transportation Safety Board	NTSB ID: DCA09FA065	
FACTUAL REPORT	Occurrence Date: 07/13/2009	
AVIATION	Occurrence Type: Accident	
Administrative Information		
Investigator-In-Charge (IIC)		
Robert P. Benzon		
Additional Persons Participating in This Accident/Incid	lent Investigation:	
David Keenan FAA AAI-100 Washington, DC		