NATIONAL TRANSPORTATION SAFETY BOARD NTSB Form 6120.1 PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

Pilot/operator accident/incident report may be filed by mailing in this form or by entering information in the online reporting system on the NTSB Web site at http://www.ntsb.gov. Paper copies of this form may be obtained from the Web site, the National Transportation Safety Board Regional Offices, and the Federal Aviation Administration Flight Standards District Offices.

Rules pertaining to aircraft accidents/incidents, overdue aircraft, and safety issues are contained in Part 830 of the National Transportation Safety Board's Regulations, 49CFR. These rules state the authority of the Board, define accidents, incidents, injuries, and other terms, and provide procedures for initial and immediate notification by aircraft pilots/operators.

A APPLICABILITY

The pilot/operator of an aircraft shall file a report with the Regional Office of the National Transportation Safety Board nearest the accident or incident for which immediate notification is required by section 830.5(a) The report shall be filed within ten (10) days after an accident for which notification is required by Section 830.5 or when, after seven (7) days, an overdue aircraft is still missing. An aircraft accident, as defined in 49CFR 830.2, is determined as an occurrence that involves a fatality, serious injury, or substantial damage. For occurrences that do not involve a fatality, the determination that the occurrence is an accident can be appealed by writing to the Director, Office of Aviation Safety, National Transportation Safety Board, 490 L'Enfant Plaza, S.W., Washington, D.C. 20594.

The Pilot/Operator Aircraft Accident/Incident Report Form is used in determining the facts, conditions, and circumstances for aircraft accident prevention activities and for statistical purposes. It is necessary that **ALL** questions be answered completely and accurately to serve the above purposes.

B. DEFINITIONS

- 1. "Aircraft Accident" means an occurrence associated with the operation of an aircraft that takes place between the time any person boards the aircraft with the intention of flight and all such persons have disembarked, and in which any person suffers death, or serious injury, or in which the aircraft receives substantial damage.
- 2. "Substantial Damage" means damage or failure which adversely affects the structural strength, performance or flight characteristics of the aircraft, and which would normally require major repair or replacement of the affected component. NOTE: Engine failure or damage limited to an engine if only one engine fails or is damaged, bent fairing or cowling, dented skin, small puncture holes in the skin or fabric, ground damage to rotor or propeller blades, and damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wing tips are not considered "substantial damage" for purposes of this report.
- 3. "Operator" means any person who causes or authorizes the operation of an aircraft, such as the owner, lessee, or bailee of an aircraft.
- 4. "Fatal Injury" means any injury that results in death within thirty (30) days of the accident.
- 5. "Serious Injury" means any injury that (1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; (2) results in a fracture of any bone (except simple fracture of fingers, toes, or nose); (3) causes severe hemorrhages, nerve, muscle, or tendon damage; (4) involves injury to any internal organ; or (5) involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

INSTRUCTIONS TO PILOTS/OPERATORS FOR COMPLETING THIS FORM It is necessary that ALL questions on this report be answered completely and accurately. If more space is needed, continue on a blank sheet.

Nearest City/Place: Use the name of the nearest community that has a Post Office in the state where the accident occurred.

Date & Time: Indicate the date and local time of the event. Be sure to indicate the time zone.

Phase of Operation: Indicate the phase of operation during which the accident/incident occurred.

Weather Information at the Accident/Incident Site: Indicate the weather conditions reported at the accident/incident site at the time of occurrence. If no weather reporting was available for the accident site, indicate the reported conditions at the nearest reporting site. Specify the weather reporting site identifier, the observation time, and distance from the accident site.

Sky/Lowest Cloud Condition: Indicate the height above ground level of the lowest cloud condition present at the time of the accident and whether coverage was reported as few, scattered, broken or overcast. Also indicate the height above ground level and coverage of the lowest cloud ceiling present at the time of the accident (reported as broken or overcast).

NOTAMs ((D), (L) and FDC), AIRMETs, SIGMETs, PIREPs: Describe all NOTAMs, AIRMETs, SIGMETs, PIREPs in effect near the

accident/incident. For NOTAMs, state if they were distant (D), local (L), or Flight Data Center (FDC), if known.

Aircraft Information: Enter aircraft make and model information as indicated on the aircraft registration certificate, including series. If the involved aircraft is certified as "amateur-built," include the name of manufacturer of the kit or plans when appropriate. Enter engine make and model information as indicated on the engine data plate.

Max Gross Weight: Enter the certificated max gross weight for the aircraft involved in the occurrence. This should be the same as the maximum gross weight indicated on the aircraft weight and balance documents.

Type of Fire Extinguishing System: If a fire extinguishing system was used to fight an aircraft fire, specify the type(s) of extinguishing system(s) used. Examples include handheld extinguisher, engine fire bottle, cargo/baggage compartment fire suppression system, or airport emergency ground equipment.

Owner/Operator Information: Enter the owner information as shown on the registration certificate. Commercial operators, enter the operator information, including "Doing Business as" when applicable, as shown on the operator certificate.

Public Use Flight: Federal, state or local government flight operations such as official travel, law-enforcement, low-level observation, aerial application, firefighting, search and rescue, biological or geological resource management, or aeronautical research. Military operations should not be included under public use. If public use, also indicate whether the flight was conducted by Federal, State, or Local government.

Revenue Sightseeing Flight: Indicate whether the accident aircraft was conducting revenue sightseeing operations under FAR Part 91 at the time of the accident

Air Medical Flight: Indicate whether the accident flight was being conducted for the purpose of carrying medical personnel, patient(s), or organs.

Purpose of Flight (FAR 91, 103, 133, 137): Indicate the type of operation that was being conducted at the time of the occurrence using the following definitions:

PERSONAL—Flying for personal reasons (excludes business transportation) including pleasure or personal transportation. This also includes practice or proficiency flights performed under flight instructor supervision and not part of an approved flight training program.

BUSINESS—Includes all personal flying without a paid, professional crew for reasons associated with furthering a business, including transportation to and from business meetings or work. This does not include corporate/executive operations, air taxi, or commuter operations.

EXECUTIVE/CORPORATE—Company flying with a paid, professional crew

OTHER WORK USE—Miscellaneous flight operations conducted for compensation or hire such as construction work (not FAR Part 135 operation), parachuting, aerial advertising, towing gliders, etc.

INSTRUCTIONAL—Flying while under the supervision of a flight instructor or receiving air carrier training. Personal proficiency flight operations and personal flight reviews, as required by federal air regulations, are excluded.

FERRY—Non-revenue flight under a special flight or "ferry" permit. Refer to 14 CFR 21.197 for details of special flight permit issuance.

POSITIONING—Non-revenue flight conducted for the primary purpose of moving the aircraft to a maintenance facility or to load passengers or cargo, etc.

AERIAL APPLICATION—Operations using an aircraft to perform aerial application or dispersion of any substance. Examples include agricultural, health, forestry, cloud seeding, firefighting, insect control, etc.

AERIAL OBSERVATION—Aerial mapping/photography, patrol, search and rescue, hunting, highway traffic advisory, ranching, surveillance, oil and mineral exploration, criminal pursuit, fish spotting, etc.

AIR DROP—Aerial operations, other than aerial application, that are intended to release items in flight.

AIR RACE/SHOW—Includes any flight operations conducted as part of an organized air race or public demonstration.

FLIGHT TEST—Flight for the purpose of investigating the flight characteristics of an aircraft/aircraft component, or evaluating an applicant for a pilot certificate or rating.

UNKNOWN—Use only if the primary purpose of flight is not known.

Collision Accident: For all accidents involving a collision with another aircraft, including parked aircraft, check "Collision with other aircraft" under Basic Information and complete this section indicating details about the OTHER aircraft involved in the collision

Airport Information: Complete this section if the accident/incident occurred on approach, takeoff, or within 3 miles of an airport. Please refer to the FAA Airport/Facility Directory or other official source for airport information

Airport Identification: Provide the official 3 or 4 character airport identifier.

Runway: Indicate the number of the runway used, including L, R, or C if applicable.

Runway/Landing Surface: Indicate the type of intended runway/landing surface (do not indicate surface conditions). If the surface type was mixed, check all that apply.

Condition of Runway/Landing Surface: Indicate the condition of the intended runway/landing surface. If multiple conditions existed at the time of the accident, check all that apply.

Pilot Information: Indicate the category that best describes the capacity served by this flight crew member at the time of the accident. The designators "Pilot A" and "Pilot B" do not refer to a specific pilot position or responsibility. If more than one pilot is aboard, they may be entered in any order and their capacity entered as appropriate.

Degree of Injury: See Definitions on the top half of Page 1 of the Instructions. Minor injury is not defined. If an injury does not meet the criteria for another injury category, select Minor.

Date of Last Flight Review or Equivalent: Enter the date of the most recent flight review, or equivalent, completed by this pilot. Refer to 14 CFR 61.56 for accepted equivalents.

Type Ratings: List all type ratings on the pilot certificate. If the pilot holds no type ratings indicate "none". If the pilot holds a pilot certificate other than student, and was flying an aircraft requiring an endorsement enter the type and date of any logbook endorsement(s) for that aircraft. See 14 CFR 61 for examples of required endorsements.

Student Endorsements: If the pilot holds a student pilot certificate, enter all solo endorsements and dates on the student pilot certificate

Flight Time: Complete the flight time matrix. Solo flight time should be included as "Pilot-in-Command (PIC)" and all dual flight instruction given should be included as "Time as Instructor".

Additional Flight Crew Members: Complete this section if there were more than two required flight crew members on the aircraft. This also includes a check airman performing official duties, but does not include cabin crew. State the capacity served by each included crewmember at the time of the accident.

Passenger(s)/Other Personnel: Please enter identification and injury severity information for all passengers and other personnel involved in the accident. See page 1 of the instructions for the official definition of injury levels. Occupants are considered "Revenue" passengers if they were being carried for compensation or hire. The option "FAA" refers to any FAA personnel performing a flight related function, including flight check, airman practical test, etc.

Several questions throughout the form allow for multiple responses; when appropriate choose all responses that apply.

These instructions only pertain to major issue areas covered by the NTSB Form 6120.1 *Pilot/Operator Aircraft Accident/Incident Report.* For more specific definitions of questions and answers not included above, please refer to http://www.ntsb.gov>.

NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public use aircraft accidents and incidents

BASIC INFORMATION				u u					
Accident/Incident Location			Date/Time						
Nearest City/Place: Memphis	Date: 07/28/2006 Local Time: 1124								
ZIP: <u>38118</u> Country: <u>U</u>	Inited States				<i>mm/dd/yyyy</i> Time Zone: Central			Ī	
Latitude: 35 01 54N (00:00:00 1	N/S) Longitude:		1	ime Zone: Octiva	<u> </u>				
Phase of Operation			Collision wit	Collision with Other Aircraft Altitude of In-Flight					
☐ Standing ☐ Takeoff (incl. initial climb) ☐ Cruise ☐ Hover					Midair Occurrence				
						☐ On-ground ✓ None 341 ft MSL			
WEATHER INFORMATION	-	OTT IT WISE							
Weather Observation Facility	ON AT THE	. AOOID	0.63	ce of Weather 1	Information		Method of	f Briefing	
Facility ID: KMEM				k all that apply)			(Check all th		
Observation Time: 1453Z		-11		ational Weather Se		Company	☐ In Person		
Time Zone: GMT		<u> </u>	FII	ight Service Static V/Radio	on	☐ Military ☐ Internet	✓ Teletype	ne/Computer	
Distance from Accident Site:	0 N	- M	✓ Aι	utomated Report		Unknown	Aircraft:	Radio	
Direction from Accident Site:	N/A degre		☐ Co	ommercial Weathe	r Service (DUA'	ΓS)	☐ TV/Radi ☐ Unknow		
Briefing Type/Completeness	IV/A degre	es MAG	T i ala	t Condition				П	
Full	✓ Abbreviate	d		t Condition awn □□	ands	☐ Dark Night	Visibility		
☐ Partial / Limited By Pilot	Unknown	u	Di			Bright Night		miles	
Partial / Limited By Briefer	☐ Not Pertine	nt	0	. .		☐ Not Reported			
Sky/Lowest Cloud Condition		Ceiling				Restriction to Visi	bility (Check all t	hat apply)	
	hin Broken	None (clear)		oscured definite	None	Fog	2000	
	hin Overcast Inknown	☑ Broken ☐ Overca			aknown	☐ Blowing Dust ☐ Blowing Sand	☐ Grou ☐ Haze		
☐ Scattered	***************************************			0.540000	nina anti-protessa anti-pro-protes	☐ Blowing Snow	☐ Ice F	og	
Lowest Cloud Condition Height	ıt	Ceiling H	Leight	t {		Blowing Spray	Smol		
4,200 ft	t AGL	72		6,500	ft AGL	☐ Dust ☐ Unknown			
Wind Direction V	Vind Speed	n		Wind Gusts		Type of Turbulenc	e (Check all that a	pply)	
☑ Indicated: V	/elocity:	8 KTS		Velocity:	KTS		In Clouds		
250 degrees MAG	-or-			2000 20	*2 22	☐ Clear Air ☐	Vicinity of Thunde	rstorm	
	Calm	re to entre		Gusting		Severity of Turbul			
☐ Variable	Light and Varia	ble		✓ Not Gusting			☐ Extreme ☐ Moderate ☐ Light ☐ Severe ☐ Moderate Chop		
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NOTAMs (D, L and FDC), A	15	- 15				the accident			
MEM FI/T Memphis Intl, Memphis,	TN, ILS RWY 1	8R, AMDT.	RAD	AR OR DME RE	EQUIRED.				
0,000	Ic	ing Foreca	ıst			Type of Precip	itation (Check all	that apply)	
Temperature: 24 (C)		Amoun	12		Type	☑ None	☐ Drizzle		
or(F)	The state of the s	None Trace		Moderate Severe	☐ Rime ☐ Clear	Rain	Ice Pellets		
Altimeter Setting: 3012 in. I	HG [Light	ي ب		Mixed	☐ Snow ☐ Hail	☐ Snow Pelle		
or MB	1					Rain Showers	☐ Ice Crystal	ls	
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or(F)		Trace Light		Severe	☐ Clear ☐ Mixed	Intensity of Pr			
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AIRC	RAFT INFOR	MATIO	N									
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Model: MD10-10F Weight at						Time of Accident: 278,654 lbs						
							of Center of Gravity at Time of Accident:					
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Category of Aircraft Type of Airworthiness Certificate Number of Sea								12.00	namic Cord			
☐ Catego	(- 1)		l that apply)	eruncau	e	Number of Se	ats: Retractable					
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Type o	f Maintenance Pi	rogram			-	ion Type	HOSELY HOSELY		st Inspect		07/28/2006	<u></u>
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	r, specify:								ast Inspecti	ion 🗹 T	ime of Accid	ent
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✓ Yes	☐ No ☐ Unki	nown		✓ Yes	□N	o 🔲 Unknown		☐ None				
								☑ Speci	fy Engine//	APU/Cargo	o/Hand-Held	1 10 11
F551/2004 (0.4004ANF55556)		LT Activa		ELT M	anufa	cturer: N/A				(*)		
☐ Yes	☑ No	Yes	No	Model/3	Series	·				<u>==0</u>		
ELT A	ided in Locating	Accident	/ Incident			er:						
☐ Yes	☑ No					•				— y Exp. Da	nte:	
Engine	Type		Reciprocatin	ıg Fuel		ropeller						
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☐ Turb		bo Fan	☐ Carburetor☐ Fuel Injecte	ed.] Fixed Pitch] Controllable Pitc		facturer:		7	V	
1010	ortop 🗆 On	KIIOWII		2 EX	┵] Controllable Pitc	" Model	li		T		<u> </u>
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Eng. 2	General Electric		CF6-6D		451245				37500	74,688	1,041	1,041
Eng. 3	General Electric		CF6-6D		451365				37500	68,843	1,075	1,076
Eng. 4	CONTROL OF THE PARTY OF THE PARTY.										.,	-31
-	ER/OPERAT	OR INF	ORMATION		_							
	ered Aircraft Ow						Ì	Owner Ad	dress			
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-6	NOVEL DE CREAT DE LES	5.00	and the					State: TN		ZIP: 38	133	7/1
Fractio	nal Ownership Air	eraft:	Yes 📝 No					Country:				
Operat	tor of Aircraft	✓ Sa	me As Registered	Owner				Operator 2	Address	Sam	e As Register	ed Owner
Name:							40	City:				
	Business As:	. 80 ==	Vine Vino overdo					State:		ZIP:		
	rier/Operator Des			i				Country: _		Harattanida		
	tion Flight Cond			:.1.4		Elic Tron 2 - 1	:::>	Revenue S	ightseeing □ Y	E) 250	☑ No	
☐ FAR			FAR 91 Special Fl Non-US, Commer			blic Use (select typ <i>Federal </i>		42.36 **	75 - 25			
▼ FAR	121	35 🔲	Non-US, Non-com			known	ப்பட்டி	Air Medic		Tec .	No.	
☐ FAR	.125	37	Armed Forces						☐ Y	US .	☑ No	

for FAR 91, 103, 133, 137 (Select	one)	pose of Flight Revenue Operation FAR 91, 103, 133, 137 (Select one) for FAR 121, 125, 129, 135				al Operating Certificate Held		
Personal Business Executive/Corporate Other Work Use Instructional Ferry Positioning Aerial Application		Scheduled or Commuter Non-Scheduled or Air Taxi Domestic or International Domestic International			(Check all that apply) ☐ None ☐ Flag Carrier Operating Certificate (121) ☑ Supplemental ☐ Air Cargo ☐ Foreign Air Carriers (129) ☐ Commuter Air Carrier (135) ☐ On-Demand Air Taxi (135) ☐ Large Helicopter (127)			
☐ Aerial Observation☐ Air Drop		Cargo Operation Passenger/Car			☐ Rotorcraft External Load (133)			
☐ Air Race / Show ☐ Flight Test		✓ Passenger		w many?	or - Agricultural Aircraft (137)			
Public Use		Cargo Mail	43,595 lbs		Other Operator of Large Aircraft			
Unknown OTHER AIRCRAFT – Co	OLLISION (I	fair or ground co	allision occur	red complete	this section for othe	raircraft)		
Aircraft Registration Number	š.					Damage to Other Aircraft		
Zin ci dic i tegisti di i ti di i ti di i	l .	ki				☐ Destroyed ☐ Minor ☐ Substantial ☐ None		
Registered Owner of Other Air					<u> </u>			
First Name:				City:				
Middle Initial:				State:	ZIP:			
Last Name:				Country:		<u> </u>		
				City				
First Name:Middle Initial:				State:	ZIP:			
Last Name:	2F (ASS PSA)			Country:				
AIRPORT INFORMATIO)N (If the accid	ent occurred on a	approach, tal					
Airport Identifier: KMEM					om Airport Center:			
Airport Name: Memphis Inter			77) 2015 - 1950ai - 1970ai			N/A degrees MAG 341 ft. MSL		
Proximity to Airport	irport/Airstrip 🗾 🛂	1 On Airport 1 €	On Airctrin	Airport Elev	ation:	541 A MSI		
1 6 4 7 7		JOH All port	On Ansurp			tt. MSL		
Approach Segment (Select one) On Instrument Approach Crosswind	✓ Landing □ Downwind	Base	e leg		Final	☐ Go Around		
On Instrument Approach	Landing Downwind Downwind	☐ Base ☐ Low MLS LDA ASR			Final Aborted Landing (after ch (Check all that app em	☐ Go Around		
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On Instrument Approach Crosswind IFR Approach (Check all that application) None PAR ADF/NDB Sidestep SDF ILS VOR/TVOR Localize VOR/DME LOC-ba TACAN RNAV Runway Information	Length: 9,32	MLS	Practice GPS Loran Unknown	VFR Approa None Straight-In Valley/Terr Go Around Full Stop Condition of	Final Aborted Landing (after ch (Check all that appears) ain Following Runway/Landing S Snow-Common Snow-Crust Snow-Dry Snow-Wet cosits Soft	Go Around touchdown) Go Around		
On Instrument Approach Crosswind IFR Approach (Check all that approach) None PAR ADF/NDB Sidestep SDF UILS VOR/TVOR Localize VOR/DME LOC-ba TACAN RNAV Runway Information Runway ID: 18R (L/R/C) Runway/Landing Surface (Check all that approach (L/R/C) Runway/Landing Surface (Check all that approach (L/R/C) Grass/Turf Concrete Gravel	Length: 9,3: Macadam Metal/Wood Snow	MLS	Practice GPS Loran Unknown	VFR Approa None Traffic Patte Straight-In Valley/Terr Go Around Full Stop Condition of Dry Holes Ice Covered Rough Rubber Dep	Final Aborted Landing (after ch (Check all that appears) Emain Following Runway/Landing Si Snow-Com Snow-Crus Snow-Dry Snow-Wet osits Soft	Go Around touchdown)		
On Instrument Approach Crosswind IFR Approach (Check all that applications) None PAR ADF/NDB Sidestep SDF ILS VOR/TVOR Localize VOR/DME LOCC-ba TACAN RNAV Runway Information Runway ID: 18R (L/R/C) Runway/Landing Surface (Chelle Gravel Gravel Gravel Gravel Dirt Ice FLIGHT ITINERARY INF Last Departure Point Airport ID: KSEA City: Seattle State: WA	Length: 9,3: Macadam Metal/Wood Snow	MLS	Practice GPS Loran Unknown 150 ft Destination Airport ID: L City: Mempore State: TN	VFR Approa None Traffic Patte Straight-In Valley/Terr Go Around Full Stop Condition of Dry Holes Ice Covered Rough Rubber Dep Slush Cover	Final Aborted Landing (after ch (Check all that appears ain Following) Runway/Landing S Snow-Corus Snow-Crus Snow-Dry Snow-Wet sosits Soft red Vegetation	Go Around touchdown) Go Around		
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Airspace where the accide	nt occurred (Cha	eck all that apply)					
	☐ Class E		Prohibited Area		☐ Jet Training Area		☐ Special
☑ Class B ☐ Class C	Class G Demo Area] Restricted Area] Military Operations Area (N	4OA)	☐ TRSA ☐ FAR 93		☐ Air Traffic Control Area ☐ Unknown
Class D	☐ Warning Area		Airport Advisory Area	viOA)	LI PAR 93		☐ Clikilowii
Aircraft Load Description	(Check all that ap	ply)					
	Towing Glider		Parachutists		Livestock		
Passengers [☐ Cargo [Towing Banner Other External	F] Water] Chemical/Fertilizer/Seeds		Unknown		
FUEL & SERVICES	- Romanda Composition Composition (Composition Composition Composi		_ Chomica/i citilize//500ds				
Fuel on Board at Last Tak	On of the	Fuel Type					
(convert from pounds, as necess		□ 80/87	□ 115/145	∏ лР3	Other, spe	ecify	
12,2	48 Gallons	100 Low Lead		□ лР4		.4	- C
	Gunons	□ 100/130	Automotive	☐ JP5			
Other Services, if Any, Pri		u ta danadi ira					
Aircraft serviced with 8,737 G	allons of Jet A pric	or to departure.					
	ELINIOTION!/E	All LIDE (16				.42 2122	-4
MECHANICAL MAL	2001 VL 27-29 201			ea, cor	ntinue on separa	ite sne	,
Was there Mechanical Ma (If yes, list the name of the part,			No 🗹 Unknown I describe the failure.)				Total Time/Cycles On Part
							Hours
							Cycles
							Time Since This Part Inspected/Overhauled
							11
							Hours
DAMAGE TO AIRCF	RAFT AND O	THER PROF	PERTY				
Aircraft Damage	Aircr	aft Fire			Aircraft Explosion		
☐ None ☑ Substantia			Both Ground and In-Flight	t	None		h Ground and In-Flight
☐ Minor ☐ Destroyed		Flight [-Ground	Unknown Origin		☐ In-Flight ☐ On-Ground	∐ Unk	nown Origin
Description of Damage to	Algoria	MARKET AND ASSESSED.	e additional sheet if necessary	v)			
The left wing, all Leading-Edge		- R 650 H	105% 59		nage due to contact wi	ith the ru	inwav.
	(G)	- E			V7.1		700
The #1 Engine contacted the r aft pylon attach point to the LH			The state of the s		_	The second second	7
damage to the engine's fan ca		or contact between	in the origine and the famili	ay nao n	om anay ado to abra	unig. II	ioro was also sabstantia
The left MLG assembly partial	ly separated direc	tly aft to a point w	here the left MI G strut was	e annrovi	mately parallel to the	lower su	urface of the wing. The left
MLG truck beam, with its asso							
An unknown amount of Jet A f	uel spilled from th	e I H wing into the	e grass adjacent to where t	he airpla	ne came to rest on the	e left sid	e of the runway
EVACUATION OF A		o Err wing into the	grass adjaconi to imere t	an pra	no sumo to rest on the	o fore ord	o or the runnay.
American Control	O						
Was an emergency evacua	tion of the aircra	ft performed?	✓ Yes ☐ No				
Method of Exit – Describe	how the occupant	s exited and how	many occupants evacuate	ed each lo	ocation		
The two crewmembers and th	e one jumpseat pa	assenger exited th	nrough the right forward ca	bin door	via the emergency slid	de.	

PILOT "A" INFORMATION										
Pilot "A" Responsibilities at Pilot □ Co-Pilot	the Time of Ac	ccident Flight In	noterrator 🗆	Check Pilot	□ Eliak	nt Engineer	Other	Eliaht Cross		
Pilot "A" Identification			irsu uctor	CHECK PHOT		it Eligilicei	Other.	Flight Crew		
First Name: Jayne Middle Initial: C Last Name: Akin				Stat	r: Coun e: TN intry: Ur	147	IIP: <u>3832</u> 6	3		
Age at time of Accident: 57 Date of Birth: Certificate Number: mm/dd/yyyy										
Degree of Injury ☐ None ☐ Fatal ☐ Minor ☑ Unknown ☐ Serious	Seat Occup Left Right Center	100 000	☐ Unknov			N. C. Starter	□ No	Shoulder For Used Available	Iarness Yes Yes	□ No
Pilot Certificate(s) (Check all	ent	4 1	eational	Commercia			Flight Engir		☐ Foreign	
	t Instructor	☐ Sport		Airline Tra			U.S. Militar		act Madiac	41
Pilot ☐ Other	Class 1	Class 3	ense (Sport Pilot	only)	Vithout lin	rtificate Va mitations/wai ations/waiver	vers	07/19/ mm/dd		u.
Medical Certificate Limitation	ons									
Medical Certificate Waivers Unknown										
Date of Last Flight Review		Fligh	t Review Airc	eraft						
or Equivalent, Including FAR 121/135 Checks:	07/19/2006	Make:	Boeing		7	- S S			7	
	mm/dd/yyyy	Model Model	: MD11				-70			
Airplane Rating(s) (Check all that apply) ☐ None ☑ Single-Engine Land ☐ Single-Engine Sea ☑ Multiengine Land ☐ Multiengine Sea	Other Aircraf (Check all that a None Airship Free Balloon Glider Gyroplane Helicopter Powered Lift	pply)	1.0323.0320.000.0000.0000.0000	pter		(Check all a	e Single-Eng e Multi-Engi ine d Lift	ine	Instrument Instrument Helicopter Glider Sport	
Type Ratings DS20, B727, DC10, MD10/11 Student Endorsements (Include dates)										
Flight Time (enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instr Actual	Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	11,262	4,402		11,262						
Pilot in Command (PIC)	9,522	4,233		9,522		13		13	T.	1
Time as Instructor		116								
This Make/Model Last 90 Days	116	31		116						
Last 30 Days	31	6		31						
Last 24 Hours	6			6		2			2	

PILOT "B" INFORMATION										
Pilot "B" Responsibilities at t ☐ Pilot	he Time of Acci	ident ☐ Flight Ir	structor	Check Pilot	□ Flig	ht Engineer	□ Other	Flight Crew		
Pilot "B" Identification		<u> </u>	Isa a coor	Circuit i ii ci	ш·в	in Engineer		ingine civii		
First Name: Andrew Middle Initial: D Last Name: Macha				Stat	r: Seat e: WA intry: L		IP: <u>98106</u> s	3		
Age at time of Accident: 38 Date of Birth: Certificate Number: mm/dd/yyyy										
Degree of Injury ☐ None ☐ Fatal ☐ Minor ☑ Unknown ☐ Serious	☑ Right		Unknown			✓ Yes] No] No	Shoulder H Used Available	✓ Yes	□ No
Pilot Certificate(s) (Check all to □ None □ Studen	nt	☐ Recre	ational	☐ Commercia			Flight Engir		☐ Foreign	
	Instructor	☐ Sport		Airline Tra		10	U.S. Militar			
Pilot	Class 1 🔲 I	Class 3	nse (Sport Pilot	only)	/ithout li	rtificate Val mitations/waiv ations/waivers	vers	03/01/20 mm/dd/		d
Medical Certificate Limitatio Unknown	ns									
Medical Certificate Waivers Unknown										
Date of Last Flight Review		Flight	Review Airc	raft						
or Equivalent, Including FAR 121/135 Checks:	06/20/2006	Make:	Boeing		2	-0,				
	mm/dd/yyyy	— Model	: MD11				Ju 13		- w - w	→ (→)
(Check all that apply) ☐ None ☑ Single-Engine Land ☐ Single-Engine Sea ☑ Multiengine Land ☐ Multiengine Sea	Other Aircraft (Check all that app None Airship Free Balloon Glider Gyroplane Helicopter Powered Lift		110000000000000000000000000000000000000	pter		Instructor (Check all th None Airplane Airplane Gyroplan Powered	<i>at apply)</i> Single-Engi Multi-Engin e Lift	ne 🔲	Instrument A Instrument H Helicopter Glider Sport	
Type Ratings MD11						Student Er	idorsemen	ts (Include de	ites)	
Flight Time (enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night		ument Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	854	244	244							
Pilot in Command (PIC)	300									
Time as Instructor										
This Make/Model	90		00							
Last 90 Days	38	90 38	90							
Last 30 Days Last 24 Hours	6	6	6							

ADDITIONAL FLIGHT CRI	EW MEMBERS	(Exclusive of cal	oin attendants, com	iplete the f	ollow	ing inform/	nation)
Pilot Name and Address						Degree of I	njury
First Name: Middle Initial:		City:	ZIP:			☐ None ☐ Minor ☐ Serious	☐ Fatal ☐ Unknown
Last Name:		Country:		_		3034	
Pilot Certificate(s) (Check all that ☐ None ☐ Student ☐ Private ☐ Flight Instructor	t apply) Recreational Sport	☐ Commercial ☐ Airline Transport	☐ Flight Engineer ☐ U.S. Military	☐ Foreigr	t	Seat Occup Left Right	☐ Front ☐ Rear
Type Rating/Endorsement for Accident/Incident Aircraft?	Yes No	Total Flight To of this Acciden	ime at the Time nt/Incident:	hrs_		☐ Center	☐ Single ☐ Unknown
Pilot Name and Address						Degree of I	niurv
First Name: Middle Initial: Last Name:		City: State: Country:	ZIP:			None Minor Serious	☐ Fatal ☐ Unknown
Pilot Certificate(s) (Check all tha	t apply)					Seat Occup	ied
☐ None ☐ Student ☐ Private ☐ Flight Instructor	☐ Recreational ☐ Sport	Commercial Airline Transport		☐ Foreigr	Ĭ	Left Right Center	Front Rear
Type Rating/Endorsement for Accident/Incident Aircraft?	Yes No	Total Flight Ti of this Accider	ime at the Time nt/Incident:	hrs			Single Unknown
Pilot Name and Address						Degree of I	njury
First Name: Middle Initial: Last Name:		City: State: Country:	ZIP:			☐ None ☐ Minor ☐ Serious	☐ Fatal ☐ Unknown
Pilot Certificate(s) (Check all that	t apply)					Seat Occup	ied
□ None □ Student □ Private □ Flight Instructor	☐ Recreational ☐ Sport	Commercial Airline Transport	☐ Flight Engineer☐ U.S. Military	☐ Foreigr	l	☐ Left ☐ Right ☐ Center	☐ Front ☐ Rear ☐ Single
Type Rating/Endorsement for Accident/Incident Aircraft?	☐ Yes ☐ No	Total Flight Ti of this Accider	ime at the Time nt/Incident:	hrs		Contor	Unknown
PASSENGER(S) / OTHER	PERSONNEL	(Include flight atto	endants; continue	on separat	e she	et if neces	sary)
PASSENGER(S) / OTHER	PERSONNEL	(Include flight atte	endants; continue	on separat	e she	et if neces	sary)
PASSENGER(S) / OTHER Name and Address	PERSONNEL	(Include flight atto	endants; continue	on separat	Crew Crew	Revenue Revenue Non-Occupant FAA	Fatal Serious Minor Minor No Injury Unknown
Name and Address First Name: Jay	PERSONNEL	City: Everett	·	Seat	Crew	Revenue Non- Occupant FAA	Fatal Serious Injury Minor Injury No Injury
Name and Address First Name: Jay Middle Initial: D	PERSONNEL	City: Everett State: WA	zip: 98208		Crew	Revenue Revenue Occupant FAA	Fatal Serious Injury Minor Injury No Injury
Name and Address First Name: Jay	PERSONNEL	City: Everett	zip: 98208	Seat	Crew	Revenue Non- Occupant FAA	Fatal Serious Injury Minor Injury No Injury
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name:	PERSONNEL	City: Everett State: WA Country: United	zɪp:_98208 I States	Seat	Crew	Revenue Revenue Non- Occupant FAA	Fatal Serious Injury Minor Injury No Injury C No Injury
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name:	PERSONNEL	City: Everett State: WA Country: United City: State:	zɪp:_98208 I States	Seat	Crew	Revenue Revenue Non- Occupant FAA	Fatal Serious Injury Minor Injury No Injury
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name:	PERSONNEL	City: Everett State: WA Country: United City: State: Country:	ZIP: 98208 I States	Seat	Crew	Revenue Revenue Non- Occupant FAA	Fatal Serious Injury Minor Injury No Injury C No Injury
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name:	PERSONNEL	City: Everett State: WA Country: United City: State: Country: City:	ZIP: 98208 I States	Seat	Crew		
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country: City: State: City: State:	ZIP: 98208 I States ZIP:	Seat	Crew		Fatal Serious Injury Minor Injury No Injury C No Injury
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Last Name: Middle Initial: Last Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country: City: State: Country:	ZIP: <u>98208</u> I States ZIP:	Seat	Crew		
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country: City: State: Country: City: State: Country:	ZIP: 98208	Seat	Crew		
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: First Name: First Name: First Name:		City: Everett State: WA Country: United City: State: Country: City: State: Country: City: State: Country:	ZIP: 98208	Seat	Crew		
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: Middle Initial: Last Name: First Name: First Name: First Name: First Name: First Name:		City: Everett State: WA Country: United City: State: Country: City: State: Country: City: State: Country: City: State: Country:	ZIP: 98208 States	Seat	C. C.ew		
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Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: First Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: Middle Initial: Last Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country:	ZIP: 98208	Seat			
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country:	ZIP: 98208	Seat			
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name:		City: Everett State: WA Country: United City: State: Country:	ZIP: 98208	Seat			
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country:	ZIP: 98208	Seat			
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country:	ZIP: 98208 I States ZIP:	Seat			
Name and Address First Name: Jay Middle Initial: D Last Name: Morrison First Name: Middle Initial: Last Name: First Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: First Name: Middle Initial: Last Name: Middle Initial: Last Name:		City: Everett State: WA Country: United City: State: Country: City: City: State: Country: City:	ZIP: 98208	Seat			

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)
Describe what occurred in chronological order, circumstances leading to accident and nature of accident. Describe terrain and include sketch of wreckage distribution if pertinent. Attach extra sheets if needed. State point of departure, time of departure, intended destination and services obtained.
FedEx Express Flight 630, N391FE, A Boeing MD10-10F departed Seattle/Tacoma International Airport, KSEA, at 1257 hours GMT. Its destination was Memphis International Airport, KMEM. The takeoff, climb, cruise and descent were uneventful. At 1624 hours GMT, upon landing at KMEM, the left MLG partially separated from the aircraft, which caused a post-impact fire that substantially damaged the LH wing assembly and #1 Engine.
The flight crew and one passenger exited through the forward right door via the emergency slide.
This mishap is currently under investigations.
RECOMMENDATION (How could this accident have been prevented?)
Operator/Owner Safety Recommendation
Operator/Owner Safety Recommendation

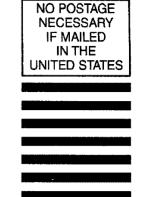
ADDITIONAL INFORMATION (Please type or print in ink)								
Use this space if addit	ional space	is needed for any answers.						
			ETE AND ACCURATE TO THE BEST OF N	MY KNOWLEDGE				
Date of this Report		and Name of Pilot/Operator						
08/11/2006	Signature:_	nt Name.						
mm/dd/yyyy	Type or Pri	nt Name:	P					
Signature and Name	OLI GLEOIL	ming Keport ii Other than Fhot/Operato	1 Page 1					
Type or Print Name: Al	an W. Ray							
Title: Manager Fligh								
		FOR NTSB (JSE ONLY					
NTSB Accident/Incident	dent No.	Reviewed by NTSB Regional Office	Name of Investigator	Date Report Received				
		Ø 3	733	550				



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When reporting an aircraft accident/incident, MAIL THIS FORM TO THE NATIONAL TRANSPORTATION SAFETY BOARD (NTSB) REGIONAL OFFICE NEAREST THE SCENE OF THE ACCIDENT. NTSB Regional Offices are located in the following cities:

The complete mailing addresses for NTSB Regional Offices are listed under U.S. GOVERNMENT in the telephone directories of the listed cities, or on the NTSB Web site http://www.ntsb.gov>.

Anchorage, AK Arlington, TX Atlanta, GA Chicago, IL Denver, CO Gardena, CA Miami, FL Parsippany, NJ Seattle, WA Ashburn, VA

NATIONAL TRANSPORTATION SAFETY BOARD Office of Aviation Safety