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

The pilot/operator aircraft accident/incident report may be filed by mailing in this form, per instructions on the last page. Copies of this form may be obtained from the NTSB Web site http://www.ntsb.gov, 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. For purposes of this form, the definition of "aircraft accident" includes "unmanned aircraft accident," as defined at 49 C.F.R. 830.2.

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/incident 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.

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.

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.

Airworthiness Certificate: For light sport aircraft, if aircraft certificated as "Light Sport - Experimental", check both the "Light Sport" and "Experimental" check boxes.

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.

Engine: Enter engine make and model information as indicated on the engine data plate.

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.

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

Public Use: 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.

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

NTSB Form 6120.1 (rev. 2/2011). This form replaces 6120.1/2.

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.

PUBLIC USE—See definition above.

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

Other Aircraft – *Collision:* 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.

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/incident site, indicate the reported conditions at the nearest reporting site. Specify the weather reporting site identifier, the observation time, and distance from the accident/incident 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.

Pilot Information: Indicate the category that best describes the capacity served by this flight crewmember 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 additional definitions of questions and responses, 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

			5									
						P	-4- /T:					
Accident/Incident Loca	tion	Edan Drairia			MNI	D	ate/Time					
Nearest City/Place: KPCWI AIIPOIL, Edell Plaine State: State:				Date: 08/05/2013 Local Time: 0848								
ZIP: 55347 Co	ountry: Uni	ted States				mm/dd/yyyy						
Latitude: <u>44:49:35 N</u> (c	ld:mm:ss N	/S) Longitude: 09:	3:27:06 V	<u>/</u> (dd	d:mm:ss E/W)							
Phase of Operation						С	ollision with O	ther Airc	raft	Altitude o	f In-Flight	
Standing Takeoff	(incl. initial	climb) Cruis	e		Hover] Midair			Occurren	ce	
\square Descent \square Landing			oach		Unknown		None				0	ft MSL
AIRCRAFT INFOR	RMATIO	N N					-					
Manufacturer: Embrae	er						Max Gross W	eight:	1	7,968 lbs		
Model: EMB 505							Weight at Tir	ne of Acci	ident/Inc	ident:	13,5	00 lbs
Serial Number: 50500)94						Location of C	Center of C	Fravity a	t Time of	Accident/I	ncident:
Pagistration Number:	N327FI		Amatour	huilt	• 🗆 Var 🗖 N	0	2000000000000000	28.90	inches fro	m ∏ nose	or 🚺 datu	n
Registration Number.			Amateur-	Duni	• 1 CS N	0	-or-		Percent N	lean Aerody	namic Cord ((% MAC)
Category of Aircraft	Type of	Airworthiness (Certificate	•	Number of	Se	ats:	9	Landin	g Gear	🗹 Retrac	table
Airplane	(Check al	l that apply)				~.			Check	any additior	nal landing ge	ar
Balloon Blimn/Dirigible	Standar	d Spec	ial		If Large Airc	raft	, how many seats	for:	configu	tration that a	applies:	
Glider	Utility	al ∐Re	estricted		Flight Ci	rew	:	2	🚺 Trie	cycle	🗌 Ta	ulwheel
Gyrocraft		atic Pr	ovisional		Cabin Ci	rew	:	0	🗌 Am	phibian	🗌 Hi	igh Skid
Powered lift	🚺 Transj	port $\Box Ex$	perimental		Passenge	ers		7	Em Em	ergency Flo	at 🗌 Sk	rid
Ultralight			ecial Flight						∐ Flo □ Hul	at 1		1 ri/Wheel
Unknown			Sin Spon							known		
Type of Maintenance P	rogram		Last In	spect	ion Type			Date Las	st Inspec	tion: 1	11/01/2012	
Annual			🗌 100 H	our	Continue	ous	Airworthiness			m	m/dd/yyyy	
Conditional (Amateur-bu	uilt only)		☐ AAIP ✓ Condition			nal	Inspection				-	00
Other Approved Inspection	ion Program	n (AAIP)		11		n		Airfram	e Total I	ime:	C	80 hrs
Continuous Airworthine	SS							hours	measured	at (check of the check of the c	one) Time of Accid	ent/Incident
LED Equipped			Stall W		a Sustam Inst	all	ad	Turne of	Eine Ent	nguighing	Sustam	
IFR Equipped \square Vec \square No \square Unk	nown		Stall warning System Installed \square Yes \square No \square Unknown				ea	None				
	nown							Specif	v NA			
								<u> </u>				
ELT Installed E	LT Activa	ated	ELT M	anufa	cturer: Kann	ad						
Yes 🗌 No	Yes 🖌	No	Model/S	eries	406AF							
ELT Aided in Locating	Accident/	Incident	Serial N	umb	er: <u>S182150</u> 2	2-0	2					
🗌 Yes 🛛 No			Battery	Туре	2:	Battery Exp. Date: 12/31/2017						
Engine Type		Reciprocatin	g Fuel	T P	ropeller							
Reciprocating Tu	rbo Jet	System Type	,					NLA				
🗌 Turbo Shaft 🛛 🗹 Tu	rbo Fan	Carburetor	d		Fixed Pitch		Manufac	turer: <u>NA</u>				
	known		,u		Controllable I	'itc	h Model:	NA				
								Engine Ra	ated			
							Date	as (check	one)	Total	Time Since	Time Since
		Engine		Mar	ufacturer's		of Mfg.	Horse	power or	Time	Inspection	Overhaul
Engine Engine Manufact	urer	Model/Series		Seri	al Number		<i>mm/dd/yyyy</i>	I lbs of	Thrust 3360	(hours)	(hours)	(hours)
Eng. 2 Pratt and Whitney		PW535E		PCE-D	DG0171		11/18/2011		3360	581	581	0
Eng. 3									0000	501	001	
Eng. 4												
								1		1	1	

OWNER/OPERATOR INFO	ORMATION	1							
Registered Aircraft Owner			Owner Address						
Name: Flight Options LLC			City: Richmond Heigh	ts					
Fractional Ownership Aircraft: 🛛	Yes 🗌 No	State: Ohio ZIP: 44143 Country: United States							
Operator of Aircraft V San	ne As Registered	l Owner	Operator Address	Operator Address Same As Registered Owner					
Name: Flight Options LLC			City:	City:					
Doing Business As: Flight Options			State: ZI	P:					
Air Carrier/Operator Designator (4 C	Character Code): <u>DJFA</u>	Country:						
			Revenue Signtseeing Fl	ignt 🔽 No					
FAR 91 FAR 129 1 FAR 103 FAR 133 1 FAR 121 FAR 135 1 FAR 125 FAR 137 2	Non-US, Comme Non-US, Non-co Armed Forces	Inght Public Use (select type) ercial <i>Federal</i> State Local mmercial Unknown	Air Medical Flight Image: Second s						
Purpose of Flight for FAR 91, 103, 133, 137 (Select one)	.)	Revenue Operation for FAR 121, 125, 129, 135 (Select one)	Type of Commercial O (Check all that apply)	perating Certificate Held					
 Personal Business Executive/Corporate Other Work Use Instructional Ferry Positioning Application 		 Scheduled or Commuter Non-Scheduled or Air Taxi Domestic or International Domestic International 	 None Flag Carrier Operating C Supplemental Air Cargo Foreign Air Carriers (12 Commuter Air Carrier (1) On-Demand Air Taxi (1) Large Helicopter (127) 	Certificate (121) 9) 135) 35)					
Aerial Observation		Cargo Operation	Rotorcraft External Load (133)						
Air Race / Show		Passenger How many?	- or -	37)					
☐ Flight Test □ Public Use		Cargo lbs	Other Operator of Large	Aircraft					
Unknown									
OTHER AIRCRAFT – COL	LISION (If	air or ground collision occurred, complet	e this section for other aircr	aft)					
Aircraft Registration NumberMNAM	Ianufacturer: Iodel: <u>NA</u>	NA		amage to Other Aircraft Destroyed Minor Substantial None					
Registered Owner of Other Aircra	aft								
First Name: NA		City: NA							
Middle Initial: NA		State: NA	ZIP: <u>NA</u>						
Pilot of Other Aircraft		Last Name: NA Country: NA							
Thot of Other An crait			**********						
First Name: NA		City: NA							
First Name: <u>NA</u> Middle Initial: <u>NA</u>		City: <u>NA</u> State: <u>NA</u>	ZIP: NA						
First Name: NA Middle Initial: <u>NA</u> Last Name: <u>NA</u>		City: NA State: NA Country: N	ZIP: <u>NA</u>						
First Name: <u>NA</u> Middle Initial: <u>NA</u> Last Name: <u>NA</u> MECHANICAL MALFUNC	TION/FAIL	City: <u>NA</u> State: <u>NA</u> Country: <u>N</u> URE (If more space is needed, continu	ZIP: <u>NA</u> A						
First Name: <u>NA</u> Middle Initial: <u>NA</u> Last Name: <u>NA</u> MECHANICAL MALFUNC Was there Mechanical Malfunctio (If yes, list the name of the part, manufac	TION/FAIL on/Failure? [cturer, part no., s	City: <u>NA</u> State: <u>NA</u> Country: <u>N</u> .URE (If more space is needed, continu] Yes ☑ No] Unknown erial no., and describe the failure.)	ZIP: <u>NA</u>	Total Time/Cycles On Part					
First Name: <u>NA</u> Middle Initial: <u>NA</u> Last Name: <u>NA</u> MECHANICAL MALFUNC Was there Mechanical Malfunctio (If yes, list the name of the part, manufac	TION/FAIL m/Failure? [cturer, part no., s	City: NA State: NA Country: N URE (If more space is needed, continu Yes ☑ No ☐ Unknown erial no., and describe the failure.)	ZIP: <u>NA</u>	Total Time/Cycles On Part Hours					
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First Name: NA Middle Initial: NA Last Name: NA MECHANICAL MALFUNC Was there Mechanical Malfunctio (If yes, list the name of the part, manufac	TION/FAIL m/Failure? [cturer, part no., s	City: <u>NA</u> State: <u>NA</u> Country: <u>N</u> .URE (If more space is needed, continu] Yes ☑ No ☐ Unknown erial no., and describe the failure.)	ZIP: <u>NA</u>	Total Time/Cycles On Part Hours Cycles Time Since This Part Inspected/Overhauled					
First Name: <u>NA</u> Middle Initial: <u>NA</u> Last Name: <u>NA</u> MECHANICAL MALFUNC Was there Mechanical Malfunctio (If yes, list the name of the part, manufac	TION/FAIL on/Failure? [cturer, part no., s	City: <u>NA</u> State: <u>NA</u> Country: <u>N</u> .URE (If more space is needed, continu] Yes ☑ No ☐ Unknown erial no., and describe the failure.)	ZIP: <u>NA</u> A e on separate sheet)	Total Time/Cycles On Part Hours Cycles Time Since This Part Inspected/Overhauled					
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First Name: NA Middle Initial: NA Last Name: NA MECHANICAL MALFUNC Was there Mechanical Malfunctio (If yes, list the name of the part, manufact) DAMAGE TO AIRCRAFT	TION/FAIL m/Failure? [cturer, part no., s	City: <u>NA</u> State: <u>NA</u> Country: <u>N</u> .URE (If more space is needed, continu] Yes [] No [] Unknown erial no., and describe the failure.)	ZIP: <u>NA</u>	Total Time/Cycles On Part Hours Cycles Time Since This Part Inspected/Overhauled Hours					
First Name: NA Middle Initial: NA Last Name: NA MECHANICAL MALFUNC Was there Mechanical Malfunctio (If yes, list the name of the part, manufac DAMAGE TO AIRCRAFT Aircraft Damage	TION/FAIL m/Failure? [cturer, part no., s	City: NA State: NA Country: N .URE (If more space is needed, continu] Yes [] No] Unknown erial no., and describe the failure.) :R PROPERTY	ZIP: <u>NA</u> e on separate sheet) Aircraft Explosion	Total Time/Cycles On Part Hours Cycles Time Since This Part Inspected/Overhauled Hours					

Description of Damage to Aircraft and Other Property (use additional sheet if necessary)

The airplane departed the end of the runway and impacted the airport boundary fence coming to rest on a four-lane highway about 1,000 feet from the runway.

AIRPORT INFORMATION (If the	e accident/incident occu	irred on appi	roach, takeoff or within	3 miles of an airpo	rt, complete this section)
Airport Identifier: KFCM			Distance From Airpo	ort Center:	1_SM
Airport Name: Flying Cloud Airport			Direction From Airp	ort:(090 degrees MAG
Proximity to Airport Off Airport/Airst	rip 🛛 On Airport 🔲 🕻	On Airstrip	Airport Elevation:		906 ft. MSL
Approach Segment (Select one)					
On Instrument ApproachImage: LandinCrosswindDown	ag 🛛 Base wind 🗋 Low	e leg Approach	Final Aborted L	anding (after touchdow	Go Around wn)
IFR Approach (Check all that apply)		_	VFR Approach (Che	ck all that apply)	
None PAR ADF/NDB Sidestep SDF ILS VOR/TVOR Localizer Only VOR/DME LOC-back course TACAN RNAV	MLS LDA ASR Contact Contact Circling] Practice] GPS] Loran] Unknown	 None Traffic Pattern Straight-In Valley/Terrain Follow Go Around Full Stop 	ing P	itop and Go 'ouch and Go imulated Forced Landing 'orced Landing trecautionary Landing Jnknown
Runway Information			Condition of Runway	/Landing Surface	(Check all that apply)
Runway ID: 10R (L/R/C) Length:	5,000 ft Width:	<u>100</u> ft	Dry [Snow-Compacted	Water-Calm
Runway/Landing Surface (Check all that Image: Asphalt Grass/Turf Mac Concrete Gravel Met Dirt Ice Snow	<i>apply)</i> adam ☐ Water al/Wood ☐ Unknown v		Indes Ice Covered Rough Rubber Deposits Slush Covered	Snow-Crusted Snow-Dry Snow-Wet Soft Vegetation	Water-Choppy Water-Glassy Wet Unknown
FLIGHT ITINERARY INFORMA	TION				
Last Departure Point Airport ID: KPIT City: Plttsburgh State: PA Country: United States	Time of Departure Time: 0730 Time Zone: Eastern	Destination Airport ID: L City: Minne State: Minne Country: Un	۱ KFCM eapolis esota ited States	Type Fligh	ht Plan Filed VFR/IFR y VFR I IFR VFR Unknown VFR No
Type of ATC Clearance/Service (Check a	ll that apply)				
□ None □ Special VFR □ VFR ☑ IFR		al IFR On Top	☐ VFR Flight ☐ Traffic Adv	t Following visory	Cruise
Airspace where the accident/incident occ Class A Class E Class B Class G Class C Demo Area Class D Warning Area	curred (Check all that app Prob Rest Million Airp	<i>ply)</i> nibited Area ricted Area tary Operations port Advisory A	s Area (MOA)	Training Area SA R 93	☐ Special ☐ Air Traffic Control Area ☐ Unknown
Aircraft Load Description (Check all that ✓ None □ Towing Glide □ Passengers □ Towing Bann □ Cargo □ Other External	apply) r Para er Wat l Che	chutists er mical/Fertilizer	□ Liv □ Unl	estock known	
FUEL & SERVICES INFORMA	ΓΙΟΝ				
Fuel on Board at Last Takeoff (convert from pounds, as necessary) 680 Gallons 680	Fuel Type 80/87 100 Low Lead 100/130	☐ 115/145 ☑ Jet A ☐ Automotiv	☐ JP3 ☐ JP4 e ☐ JP5	Other, specify	
Other Services, if Any, Prior to Departu No mechanical services.	re				

EVACUATION OF AIRCRAFT									
Was an emergency evacuation of the aircraft performed? ∇ Yes \Box No									
Method of Exit – Describe how the occupants exited and how many occupants evacuated each location									
Two pilots exited via the main cabin door.									
WEATHER INFORMA	TION AT THE		DENT	F/INCIDENT	SITE				
Weather Observation Facilit	у		Sour	ce of Weather I	nformation			Method of Briefing	
Facility ID: KFCM		_	(Chec	ck all that apply)				(Check all that apply)	
Observation Time: 1338z		_		ational Weather Ser light Service Station	rvice		☐ Company ☐ Military	☐ In Person ☐ Teletype	
Time Zone: Central		_	ПΤ	V/Radio			Internet	Telephone/Computer	
Distance from Accident Site:	<u> 0 </u> N	IM		utomated Report	Service (DUA	TS)	Unknown	✓ Aircraft Radio	
Direction from Accident Site:	000 degr	ees MAG			Service (Berr	15)			
Briefing Type/Completeness			Ligh	t Condition				Visibility	
Full		ed		awn 🗌 Di	usk		Dark Night	6 miles	
□ Partial / Limited By Pilot □ Unknown □ Partial / Limited By Briefer □ Not Pertinent			☑ Day				Not Reported		
Sky/Lowest Cloud Condition	L	Ceiling				Re	estriction to Visibility	(Check all that apply)	
Clear	Thin Broken	None	(clear) Obscured				None	Fog	
Few Thin Overcast Brok			cast Indefinite			Blowing Dust Blowing Sand	Ground Fog		
Scattered							Blowing Snow	Ice Fog	
Lowest Cloud Condition Hei	ght	Ceiling	Height				Blowing Spray	Smoke	
200	ft AGL		7,000 ft AGL				Dust		
Wind Direction	Wind Speed			Wind Gusts		Ту	pe of Turbulence (C)	heck all that apply)	
Indicated:	Velocity:	4 KTS	Velocity:KTS		KTS	\checkmark	None In Cl	louds	
degrees MAG	-or-						Clear Air Vicin	nity of Thunderstorm	
	Calm	-1-1-	Gusting			Se	verity of Turbulence	e	
		able	✓ Not Gusting			$ \mid$	Extreme Mode	lerate 🗌 Light	
NOTAMs (D. L. and FDC)	AIRMETS S	GMETs	PIR	$\square Sev$		severe Moderate Chop			
See Attached	, AIRUL 13 , 51		, 1 11	ET 5 III CHECT at		unc			
	I	ing Forec	ast				Type of Precipitation	on (Check all that apply)	
Temperature: <u>18</u> (C)		Amour	nt		Туре		None None	Drizzle	
or(F)		None Trace		Moderate Severe	Clear		Rain	Ice Pellets	
Altimeter Setting: 29.89 i	n. HG	Light			Mixed		Hail	Snow Grains	
or		ving Actus	1				Rain Showers	Ice Crystals	
Density Altitude:	<u>1,547</u> ft	Amoui	nt		Туре		Snow Shower	Freezing Drizzle	
Dew Point: $17(C)$		None		Moderate	Close		Intonsity of Days' '	tation	
or(r) \Box Trace \Box Light				500010				oderate Heavy	

PILOT "A" INFORMATION										
Pilot "A" Responsibilities at ☑ Pilot □ Co-Pilot	Pilot "A" Responsibilities at the Time of Accident/Incident ✓ Pilot □ Co-Pilot □ Student Pilot □ Flight Instructor □ Check Pilot □ Flight Engineer □ Other Flight Crew									
Pilot "A" Identification										
First Name: Theodore				City	y:	O a ma line a T	07544			
Middle Initial: State: North CarolinaZIP: 27513 Last Name: LaFond Country: United States										
Age at time of Accident/Incident: Date of Birth: /1964 Certificate Number Certificate Number $mm/dd/yyyy$										
Degree of Injury	Seat Occup	oied		Seat	t Belt			Shoulder H	Iarness	
✓ None ☐ Fatal ☐ Minor ☐ Unknown	Left Right	Front Rear	Unknow	vn Used	l G	ZYes [Used Available	Yes	□ No
Serious	Center	Single		Avai				Available	V Tes	
Pilot Certificate(s) (Check all that apply)										
None Stude Private Fligh	ent t Instructor	Recre	eational	☐ Commerci	al ansport		Flight Engin U.S. Militar	neer Y	Foreign	
Principal Occupation N	Iedical Certifi	cate		Med	lical Certi	ificate Va	lidity	Date of L	ast Medica	l
Pilot	None	Class 3	ense (Sport Pilot	only)	Vithout limi Vith limitati	itations/wai	vers	05/14/	2013	
Unknown	Class 2	Unknown			Jnknown	ions/warver	3	mm/dd	///////////////////////////////////////	
Must wear corrective lenses.	Medical Certificate Limitations Must wear corrective lenses.									
Medical Certificate Waivers										
None										
Date of Last Flight Review	Date of Last Flight Review Flight Review Aircraft									
or Equivalent, Including FAR 121/135 Checks:	06/07/2013	Make:	Embraer							
	mm/dd/yyyy	Model	: EMB 505							
Airplane Rating(s)	Other Aircra	ft Rating(s)	Instrum	ent Rating(s)		Instructo	r Rating(s)			
(Check all that apply) \Box None	Check all that a ☐ None	ιρριγ)	(Check al.	l that apply)		(Check all that apply)				
Single-Engine Land	Airship		Airpla	ne		Airplan	e Single-Eng	ine	Instrument	Helicopter
Single-Engine Sea	Glider	1	Helico Power	pter ed Lift		Airplan	e Multi-Engi	ne 🗌	Helicopter	
Multiengine Sea	Gyroplane			eu Ent		Powered	d Lift] Sport	
	Helicopter Powered Lif	ť								
Type Ratings						Student E	Indorseme	nts (Include d	lates)	
BE-400, CE-500, EMB-505, MU-300)w									
						1		1	I	
Flight Time (enter appropriate	All	This Make	Airplane Single	Airplane		Inst	rument			Lighter
number of hours in each box)	Aircraft	& Model	Engine	Multiengine	Night	Actual	Simulated	Rotorcraft	Glider	Than Air
Pilot in Command (PIC)	0,158 4 610	1,081 541	396	4 210	1,210	460	0	0	0	0
Time as Instructor	- , ,,,,0,10	0	0		0	0	0	0	0	0
This Make/Model					91	113	0			
Last 90 Days	153	153	0	153	3	5	0	0	0	0
Last 30 Days	74	74	0	74	2	1	0	0	0	0
Last 24 Hours	7	7	0	7	0	0	0	0	0	0

PILOT "B" INFORMATION										
Pilot "B" Responsibilities at t □ Pilot ✓ Co-Pilot	the Time of Ac	cident/Incid	ent nstructor	Check Pilot	🗌 Flight	Engineer	Other 1	Flight Crew		
Pilot "B" Identification										
First Name: Bruce Middle Initial: A Last Name: Addison City: Youngstown State: FL ZIP: 32466 Country: United States										
Age at time of Accident/Incide	nt: <u>61</u>	Date of Bi	rth: <u>mm/dd/yy</u>	<u>1962</u> Cer	tificate Nu	umber:				
Degree of Injury ✓ None □ Fatal □ Minor □ Unknown □ Serious	Seat Occupie	d Front Rear Single	Unknown	Seat Used Avai	Belt	Yes Yes] No] No	Shoulder H Used Available	arness ✓ Yes ✓ Yes	□ No □ No
Pilot Certificate(s) (Check all	that apply)									
NoneStudentPrivateFlight	nt Instructor	☐ Recre ☐ Sport	ational	Commerci	al ansport		Flight Engir U.S. Militar	neer y	Foreign	
Principal Occupation M ✓ Pilot ✓ ○ Other ✓ ○ Unknown ✓	edical Certific None Class 1 Class 2	eate] Class 3] Driver's Lice] Unknown	ense (Sport Pilot	only) Med	Medical Certificate Validity Date of Last Medical Certificate Validity Without limitations/waivers 02/02/2013 With limitations/waivers mm/dd/yyyy			ast Medica 013 /////	1	
Medical Certificate Limitation Must wear corrective lenses.	Medical Certificate Limitations Must wear corrective lenses.									
Medical Certificate Waivers	Medical Certificate Waivers NA									
Date of Last Flight Review		Flight	t Review Airc	raft						
or Equivalent, Including FAR 121/135 Checks	03/08/2013	Make:	Embraer							
	mm/dd/yyyy	Model	EMB 505							
Airplane Rating(s) (Check all that apply) None Single-Engine Land Single-Engine Sea Multiengine Land Multiengine Sea	Other Aircraf (Check all that a Airship Free Balloon Glider Gyroplane Helicopter Powered Lift	Instrument Rating(s) Other Aircraft Rating(s) Check all that apply) None Airship Free Balloon Glider Gyroplane Helicopter Powered Lift			Ig(s) Instructor Rating(s) y) (Check all that apply) None Instrument Airplane Airplane Single-Engine Instrument Helicopter Airplane Multi-Engine Helicopter Gyroplane Glider Powered Lift Sport				irplane lelicopter	
Type Ratings					S	tudent Er	ndorsemen	ts (Include da	ites)	
HS-125, EMB-505										
Flight Time (enter appropriate	All	This Make	Single	Airplane		Inst	rument		C 1	Lighter
number of nours in each box)	Aircraft	& Model	Engine	Multiengine	Night	Actual	Simulated	Rotorcraft	Glider	Than Air
Pilot in Command (PIC)	5 128	150	2,601	9,147	430	513	0	0	0	0
Time as Instructor	0,120	0	2,001	2,527	∠50 0	0	0	0	0	0
This Make/Model	J		0	0	4	46	0			
Last 90 Days	101	101	0	0	3	19	0	0	0	0
Last 30 Days	48	48	0	0	1	8	0	0	0	0
Last 24 Hours	5	5	0	0	0	0	0	0	0	0

ADDITIONAL FLIGHT CRI	EW MEMBERS	(Exclusive of cabin a	ittendants, complete the	e following info	rmati	on)	
Pilot Name and Address First Name: NA Middle Initial: NA Last Name: NA		City: NA State: NA Country: NA	ZIP: <u>NA</u>			Degree of In None Minor Serious 	njury Fatal Unknown
Pilot Certificate(s) (Check all that None Student Private Flight Instructor Type Rating/Endorsement for Accident/Incident Aircraft?	<i>t apply)</i> Recreational Sport Yes No	Commercial Airline Transport Total Flight T of this Acciden	Flight Engineer U.S. Military ime at the Time nt/Incident:	Foreign		Seat Occup	ied Front Rear Single Unknown
Name and Address First Name: NA Middle Initial: NA Last Name: NA		City: NA State: NA Country: NA	ZIP: <u>NA</u>			Degree of In Degree of In One Serious	njury Fatal Unknown
Pilot Certificate(s) (Check all that None Student Private Flight Instructor Type Rating/Endorsement for Accident/Incident Aircraft?	t apply) Recreational Sport Yes No	Commercial Airline Transport Total Flight T of this Acciden	Flight Engineer U.S. Military ime at the Time nt/Incident:	Foreign		Seat Occup	ied ☐ Front ☐ Rear ☐ Single ☐ Unknown
Pilot Name and Address First Name: NA Middle Initial: NA Last Name: NA		City: NA State: NA Country: NA	ZIP: NA			Degree of In None Minor Serious 	njury Fatal Unknown
Pilot Certificate(s) (Check all that None Student Private Flight Instructor Type Rating/Endorsement for Accident/Incident Aircraft?	<i>t apply)</i> Recreational Sport Yes No	Commercial Airline Transport Total Flight T of this Acciden	Flight Engineer U.S. Military Wiltary Time at the Time nt/Incident:	Foreign		Seat Occup	ied ☐ Front ☐ Rear ☐ Single ☐ Unknown
PASSENGER(S) / OTHER	PERSONNEL	(Include flight attenda	ants: continue on separ	ate sheet if neo	essa	rv)	
Name and Address				Seat	Crew Non-	Revenue Revenue Non- Occupant FAA	Fatal Serious Injury Minor Injury No Injury Unknown
First Name: NA Middle Initial: NA Last Name: NA		City: NA State: NA Country: NA	ZIP:	<u></u> <u>NA</u>			
First Name: Middle Initial: Last Name:		City: State: Country:	ZIP:				
First Name: Middle Initial: Last Name:		City: State: Country:	ZIP:				
First Name: Middle Initial:							
Last Name:		City: State: Country:	ZIP:				
Last Name: First Name: Middle Initial: Last Name:		City: State: Country: City: State: Country:	ZIP:				
Last Name: First Name: Last Name: First Name: Middle Initial: Last Name:		City: State: Country: City: State: Country: City: City: Country: City: Country: Country:	ZIP: ZIP: ZIP:				
Last Name:		City: State: Country: City: State: Country: City: City: City: City: City: City: City: City: City: Country: City: Country:	ZIP: ZIP: ZIP: ZIP:				

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State time and point of departure, intended destination, and services obtained.

On August 5, 2013, at 0848 central daylight time, N327FL, an Embraer S.A. EMB-505, multi-engine turbofan airplane, was substantially damaged during landing at Flying Cloud Airport (FCM), Eden Prairie, Minnesota. The two pilots were not injured. Day visual meteorological conditions (VMC) prevailed at the time of the accident and an instrument flight rules flight plan had been filed for the 14 Code of Federal Regulations Part 91 positioning flight. The airplane had departed Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania, about 0730 eastern daylight time and was destined for FCM.

The pilots reported that the airplane was on a steep visual approach when they landed long and fast. The pilot flying also reported that after touchdown he could feel the pulsing of the anti-skid brakes but was unable to stop on the runway surface. The airplane departed the end of the runway and impacted the airport boundary fence coming to rest on a four-lane highway about 1,000 feet from the runway.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

The crew adhering to Flight Option's Flight Operation Manual Section 4.33.8 regarding Stabilized Approach Criteria could have prevented this accident. This section reads as follows:

All flights must be stabilized at 500' above MDA/DH when IMC or 500' above airport elevation when in VMC conditions. A go-around must be initiated if the aircraft does not meet the stabilized approach criteria. Small, momentary deviations in airspeed, sink rate, glidepath and course that require minor corrections do not require an immediate go-around. PMs should make necessary callouts for minor deviations to assist the PF in making immediate corrections to maintain stabilized approach criteria. An approach is stabilized when it meets the following criteria: 1. All briefings have been conducted. 2. Aircraft is fully configured per aircraft profile for landing (except for full flaps during circling or one-engine inoperative). 3. IAS airspeed is no more than VREF + 20 KTS and no less than V. 4. IVSI is no more than 1000' per minute. 5. Within one dot CDI deflection both lateral and vertical (when applicable). 6. No flight instrument flags unless the landing runway or visual references are in sight.* 7. Unique approach procedures or abnormal conditions requiring a deviation from the above REF elements of a stabilized approach require that the crew conduct a special briefing prior to the approach. * Does not apply to maintenance deferred instruments. An approach that becomes unstabilized requires an immediate go-around. To prevent ATC speed clearances that may compromise a stabilized approach, do not accept speed assignments in excess of 170KTS closer than five miles from the runway approach end. Go Around/Missed Approach Policy When the safe outcome of an approach is in doubt it is the responsibility of both crewmembers to initiate a go-around/missed approach immediately. Any pilot shall call for a go-around/missed approach if there are indications that a safe landing cannot be completed. 10

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I HEREBY CERTIF	I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE									
Date of this Report	Signature and Name of Pilot/Operator									
08/08/2013	Signature:	Signature:								
mm/dd/yyyy	Type or Prin	Type or Print Name:								
Signature and Name	Signature and Name of Person Filing Report if Other than Pilot/Operator									
Signature:	A	#								
Type or Print Name: Br	yan Gross									
Title: Director of Saf	ety									
	FOR NTSB USE ONLY									
NTSB Accident/Inci	dent No.	Reviewed by NTSB Regional Office	Name of Investigator	Date Report Received						
CEN13LA462		NTSB Central Region	Thomas J. Latson, Jr.	`8/8/2013						