

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

Email the pilot/operator aircraft accident/incident report to the investigator-in-charge of your accident/incident. If email is not available, mail the report per the instructions below.

If your accident/incident occurred in Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, the District of Columbia, Puerto Rico, or the US Virgin Islands, send the form to: NTSB, ERA, 45065 Riverside Parkway, Ashburn, VA 20147.

If your accident/incident occurred in Ohio, Michigan, Indiana, Wisconsin, Illinois, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Colorado, or New Mexico, send the form to: NTSB, CEN, 4760 Oakland Street, Suite 500, Denver, CO 80239.

If your accident/incident occurred in Montana, Wyoming, Idaho, Utah, Arizona, Nevada, Washington, Oregon, California, Hawaii, or the territories of Guam or American Samoa, send the form to: NTSB, WPR, 505 South 336th Street, Suite 540, Federal Way, WA 98003.

If your accident/incident occurred in Alaska, send the form to: NTSB, ANC, 222 West 7th Avenue, Room 216, Box 11, Anchorage, AK 99513.

Rules pertaining to notification of aircraft accidents and incidents, as well as overdue aircraft are found in 49 *Code of Federal Regulations* (CFR) Part 830 [http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&tpl=/ecfrbrowse/Title49/49cfr830\\_main\\_02.tpl](http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&tpl=/ecfrbrowse/Title49/49cfr830_main_02.tpl). These rules state the authority of the NTSB, define accidents, incidents, injuries, and other terms, and provide procedures for initial and immediate notification of accidents and incidents by aircraft pilots/operators.

#### A. APPLICABILITY

The pilot/operator of an aircraft shall send a report to the office listed above, based on accident/incident location; immediate notification is required by 49 CFR 830.5(a). **The report shall be filed within 10 days after an accident for which notification is required by Section 830.5, or after 7 days if an overdue aircraft is still missing.**

An aircraft accident, as defined in 49 CFR 830.2, is determined as an occurrence that involves a fatality or serious injury, or substantial damage to the aircraft. 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, NTSB, 490 L'Enfant Plaza, S.W., Washington, D.C. 20594.

### 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 of paper.**

**Nearest City/Place:** Use the name of the nearest community 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 the producer of the kit or plans, unless an NTSB employee instructs otherwise.

**Maximum Gross Weight:** Enter the certificated maximum 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.

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

The NTSB uses this form for aircraft accident prevention activities and for statistical purposes. NTSB regulations (49 CFR Part 830) require that **ALL** questions be answered completely and accurately. Completion of this form will take approximately 60 minutes. The NTSB does not guarantee the privacy of any information provided in this form. You need not complete this form unless it displays a valid OMB control number, in accordance with 5 C.F.R. § 1320.5(b), which applies to this collection of information.

#### 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 CFR 830.2.

2. "Substantial Damage" means damage or failure that adversely affects the structural strength, performance or flight characteristics of the aircraft, and that 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.

**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.

**Revenue Sightseeing Flight:** Indicate whether the accident aircraft was conducting **revenue** sightseeing operations under 14 CFR 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.

**Public Aircraft:** 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. Indicate whether the flight was conducted by the armed forces, federal, state, or local government.

**Purpose of Flight:** 14 CFR Parts 91, 103, 133, 136, and 137: Indicate the type of operation that was being conducted at the time of the occurrence using the following definitions:

**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**--These flights include 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.

**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.

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

**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.

**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.

**OTHER WORK USE**--Miscellaneous flight operations conducted for compensation or hire such as construction work (not 14 CFR Part 135 operation), parachuting, aerial advertising, towing gliders, etc.

**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.

**POSITIONING**--Non-revenue flight conducted for the primary purpose of relocating the aircraft. Examples include moving the aircraft to a maintenance facility or to load passengers or cargo etc.

**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, landing, takeoff, departure, or within 3 statute miles of an airport. Please refer to the FAA Airport/Facility Directory or other official source for airport information.

**Airport Identifier:** Provide the official 3 or 4 character airport identifier number.

**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.

**Sky/Lowest Cloud Condition:** Indicate the height above ground level of the lowest cloud condition present at the time of the accident/incident 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/incident (reported as broken or overcast).

**NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs:** Describe all NOTAMs (distant (D) or Flight Data Center (FDC), if known), AIRMETs, SIGMETs, and PIREPs in effect near the accident/incident.

**Flight Crewmember Information:** Indicate the category that best describes the capacity served by this flight crewmember at the time of the accident. The designators "Flight Crewmember 1" and "Flight Crewmember 2" 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 Crewmembers:** Complete this section if there were more than two required flight crewmembers 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:** Enter identification and injury severity information for all passengers, cabin crew, and other personnel involved in the accident. See Page 1 of the instructions for the official definition of injury levels.

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 NTSB Form 6120.1 Pilot/Operator Aircraft Accident/Incident Report. For additional definitions of questions and responses, please refer to [www.nts.gov](http://www.nts.gov).**

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

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

**BASIC INFORMATION**

<b>Accident/Incident Location</b> Nearest City/Place: <u>Baltimore International Airport</u> State: <u>MD</u> ZIP: <u>21240</u> Country: <u>United States</u> Latitude: <u>39.175331</u> Longitude: <u>-76.693229</u> <i>(Enter in decimal degrees or degrees:minutes:seconds)</i>	<b>Accident/Incident Date/Time</b> Date: <u>02/07/2020</u> Local Time: <u>4:15</u> <i>mm/dd/yyyy</i> Time Zone: <u>Eastern</u>
<b>Collision with Other Aircraft:</b> <input type="radio"/> Midair <input type="radio"/> On-ground <input checked="" type="radio"/> None	

**AIRCRAFT INFORMATION**

<b>Registration Number:</b> <u>N988FX</u> <b>Manufacturer:</b> <u>Cessna</u> <b>Model:</b> <u>Caravan</u> <b>Serial Number:</b> <u>208B2400</u> <b>Year of Manufacture:</b> <u>2012</u> <b>Amateur-Built:</b> <input type="radio"/> Yes <input checked="" type="radio"/> No <i>If Yes:</i> <input type="radio"/> Kit/Plans <input type="radio"/> Original Design Make: _____	<input checked="" type="checkbox"/> IFR-Equipped and Certified <input type="checkbox"/> Commercial Space Flight <input type="checkbox"/> Unmanned Aircraft <b>Maximum Gross Weight:</b> <u>8785</u> lbs <b>Weight at Time of Accident/Incident:</b> <u>7480</u> lbs <b>Number of Seats:</b> <u>2</u> Flight Crew Seats: <u>2</u> Cabin Crew Seats: <u>0</u> Passenger Seats: <u>0</u> <b>Number of Engines:</b> <u>1</u>
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<b>Category of Aircraft</b> <input checked="" type="radio"/> Airplane <input type="radio"/> Balloon <input type="radio"/> Blimp/Dirigible <input type="radio"/> Glider <input type="radio"/> Gyroplane <input type="radio"/> Helicopter <input type="radio"/> Powered Lift <input type="radio"/> Rocket <input type="radio"/> Ultralight <input type="radio"/> Unknown	<b>Type of Airworthiness Certificate</b> <i>(Check all that apply)</i> <table border="0" style="width:100%;"> <tr> <td><b>Standard</b></td> <td><b>Special</b></td> </tr> <tr> <td><input checked="" type="checkbox"/> Normal</td> <td><input type="checkbox"/> Restricted</td> </tr> <tr> <td><input type="checkbox"/> Aerobatic</td> <td><input type="checkbox"/> Limited</td> </tr> <tr> <td><input type="checkbox"/> Balloon</td> <td><input type="checkbox"/> Provisional</td> </tr> <tr> <td><input type="checkbox"/> Commuter</td> <td><input type="checkbox"/> Special Flight</td> </tr> <tr> <td><input type="checkbox"/> Transport</td> <td><input type="checkbox"/> Experimental</td> </tr> <tr> <td><input type="checkbox"/> Utility</td> <td><input type="checkbox"/> Special Light-Sport</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Experimental Light-Sport</td> </tr> </table> <input type="checkbox"/> Certificate of Authorization or Waiver (COA) <input checked="" type="checkbox"/> None <input type="checkbox"/> Unknown	<b>Standard</b>	<b>Special</b>	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Restricted	<input type="checkbox"/> Aerobatic	<input type="checkbox"/> Limited	<input type="checkbox"/> Balloon	<input type="checkbox"/> Provisional	<input type="checkbox"/> Commuter	<input type="checkbox"/> Special Flight	<input type="checkbox"/> Transport	<input type="checkbox"/> Experimental	<input type="checkbox"/> Utility	<input type="checkbox"/> Special Light-Sport		<input type="checkbox"/> Experimental Light-Sport	<b>Landing Gear</b> <i>(Check all that apply)</i> <input type="checkbox"/> Retractable <input checked="" type="checkbox"/> Tricycle <input type="checkbox"/> Tailwheel <input type="checkbox"/> Amphibian <input type="checkbox"/> High Skid <input type="checkbox"/> Emergency Float <input type="checkbox"/> Skid <input type="checkbox"/> Float <input type="checkbox"/> Ski <input type="checkbox"/> Hull <input type="checkbox"/> Ski/Wheel <input type="checkbox"/> Other Launch/Recovery System <input type="checkbox"/> None <input type="checkbox"/> Unknown	<b>Engine Type</b> <i>(Select one)</i> <input type="radio"/> Reciprocating <input type="radio"/> Liquid Rocket <input type="radio"/> Turbo Shaft <input type="radio"/> Solid Rocket <input checked="" type="radio"/> Turbo Prop <input type="radio"/> Hybrid Rocket <input type="radio"/> Turbo Jet <input type="radio"/> None <input type="radio"/> Turbo Fan <input type="radio"/> Unknown <input type="radio"/> Electric <b>Fuel System Type</b> <i>(Reciprocating)</i> <input type="radio"/> Carburetor <input type="radio"/> Fuel-Injected
<b>Standard</b>	<b>Special</b>																		
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Restricted																		
<input type="checkbox"/> Aerobatic	<input type="checkbox"/> Limited																		
<input type="checkbox"/> Balloon	<input type="checkbox"/> Provisional																		
<input type="checkbox"/> Commuter	<input type="checkbox"/> Special Flight																		
<input type="checkbox"/> Transport	<input type="checkbox"/> Experimental																		
<input type="checkbox"/> Utility	<input type="checkbox"/> Special Light-Sport																		
	<input type="checkbox"/> Experimental Light-Sport																		

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Rated Power <input checked="" type="radio"/> Horsepower or <input type="radio"/> lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	Pratt & Whitney	PT6-114A	PC2018	06/20/2012	675	3594.2	3497.4	3594.2
Eng. 2								
Eng. 3								
Eng. 4								

<b>Last Inspection Type</b> <input type="radio"/> 100-Hour <input type="radio"/> Continuous Airworthiness <input checked="" type="radio"/> AAIP <input type="radio"/> Conditional Inspection <input type="radio"/> Annual <input type="radio"/> Unknown <b>Date Last Inspection:</b> <u>11/26/2019</u> <i>mm/dd/yyyy</i> <b>Airframe Total Time:</b> <u>3497.4</u> hrs hours measured at <i>(Select one)</i> <input checked="" type="radio"/> Last Inspection <input type="radio"/> Time of Accident/Incident	<b>Propeller 1</b> <input type="radio"/> Fixed Pitch <input checked="" type="radio"/> Controllable Pitch <input type="radio"/> Ground Adjustable Manufacturer: <u>Hartzel</u> Model: <u>HC-B3TN-3AF</u> <b>Propeller 2</b> <input type="radio"/> Fixed Pitch <input type="radio"/> Controllable Pitch <input type="radio"/> Ground Adjustable Manufacturer: _____ Model: _____
<b>Type of Maintenance Program</b> <i>(Select one)</i> <input type="radio"/> Annual <input type="radio"/> Conditional (Amateur-built only) <input type="radio"/> Manufacturer's Inspection Program <input checked="" type="radio"/> Other Approved Inspection Program (AAIP) <input type="radio"/> Continuous Airworthiness <input type="radio"/> Other, specify: _____	<b>ELT Installed:</b> <input checked="" type="radio"/> Yes <input type="radio"/> No <i>If Yes:</i> <b>ELT Manufacturer:</b> <u>ARTEX</u> <b>Model or Part No.:</b> <u>453-6603</u> <b>TSO No.:</b> <input type="radio"/> C91 (121.5 MHz) <input type="radio"/> C91a (121.5 MHz) <input checked="" type="radio"/> C126 (406 MHz) <b>Was ELT still mounted in aircraft?</b> <input checked="" type="radio"/> Yes <input type="radio"/> No <b>Was ELT still connected to antenna?</b> <input checked="" type="radio"/> Yes <input type="radio"/> No <b>Did ELT Activate?</b> <input type="radio"/> Yes <input checked="" type="radio"/> No <i>If activated:</i> <b>Did ELT Aid in Locating Aircraft?</b> <input type="radio"/> Yes <input checked="" type="radio"/> No <i>If not activated:</i> <b>Indicate Reason:</b> <input type="checkbox"/> Impact Damage <input type="checkbox"/> Fire Damage <input type="checkbox"/> Battery Expired/Damaged <input type="checkbox"/> Unknown
<b>Description of Fire Extinguishing System</b> <input type="radio"/> None <input type="radio"/> Specify: _____	<b>Additional Equipment</b> <i>(Check all that apply)</i> <input checked="" type="checkbox"/> ADS-B <input type="checkbox"/> Airframe Parachute <input type="checkbox"/> Angle of Attack Indicator <input checked="" type="checkbox"/> Autopilot <input type="checkbox"/> Data Recorder <input type="checkbox"/> Electronic Flight Bag or Handheld Device <input checked="" type="checkbox"/> Electronic Multifunction Display <input checked="" type="checkbox"/> Electronic Primary Flight Display <input checked="" type="checkbox"/> Handheld GPS <input type="checkbox"/> Heads Up Display <input checked="" type="checkbox"/> Onboard Weather <input type="checkbox"/> Satellite Tracking Device <input checked="" type="checkbox"/> Stall Warning System <input type="checkbox"/> Video Recording Device <input type="checkbox"/> Other, Specify: _____

**OWNER/OPERATOR INFORMATION****Registered Aircraft Owner**Name: Federal Express CorporationCity: MemphisState: TN ZIP: 38118Fractional Ownership Aircraft:  Yes  NoCountry: United States**Operator of Aircraft** Same As Registered Owner Same Address as Registered OwnerName: Mountain Air CargoCity: DenverDoing Business As: Mountain Air CargoState: NC ZIP: 28037Air Carrier/Operator Designator (4 Character Code): MTNACountry: United States**Operating Certificates Held***(Check all that apply)*

- None  
 Flag Carrier Operating Certificate (FAR 121)  
 Supplemental  
 Air Cargo  
 Foreign Air Carriers (FAR 129)  
 Rotorcraft External Load (FAR 133)  
 Commuter Air Carrier (FAR 135)  
 On-Demand Air Taxi (FAR 135)  
 Commercial Air Tour (FAR 136)  
 Agricultural Aircraft (FAR 137)  
 Pilot School (FAR 141)  
 Certificate of Authorization or Waiver (COA)  
 Commercial Space Transportation Experimental Permit  
 Commercial Space Transportation License  
 Other Operator of Large Aircraft

**Regulation Flight Conducted Under**

- FAR 91     FAR 129     FAR 415  
 FAR 103     FAR 133     FAR 431  
 FAR 121     FAR 135     FAR 435  
 FAR 125     FAR 137     FAR 437
- FAR 91 Special Flight  
 Non-US, Commercial  
 Non-US, Non-commercial
- Public Aircraft *(Select one)*  
 Armed Forces  
 Federal  
 State  
 Local  
 Unknown

**Revenue Operation for FAR 121, 125, 129, 135***(Select one for each group)*

- Scheduled or Commuter     Domestic  
 Non-Scheduled or Air Taxi     International
- Passenger  
 Cargo  
 Mail Contract Only

**Purpose of Flight for FAR 91, 103, 133, 137***(Select one)*

- Aerial Application     Firefighting     Unknown  
 Aerial Observation     Flight Test  
 Air Drop     Glider Tow  
 Air Race/Show     Instructional  
 Banner Tow     Other Work Use  
 Business     Personal  
 Executive/Corporate     Positioning  
 External Load     Skydiving  
 Ferry

**Revenue Sightseeing Flight** Yes  No**Air Medical Flight** Yes  No**AIRPORT INFORMATION (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)**Airport Name: Baltimore/Washington International Thurgood MarshallDistance From Airport Center: 1.3 smAirport Identifier: BWIDirection From Airport: 230 degrees trueProximity to Airport:  Off Airport/Airstrip  On Airport/Airstrip  N/AAirport Elevation: 143 ft. msl**Runway Information**Runway ID: 10 (L/R/C) Length: 10503 ft Width: 150 ft**Runway/Landing Surface (Check all that apply)**

- Asphalt     Grass/Turf     Macadam     Water  
 Concrete     Gravel     Metal/Wood  
 Dirt     Ice     Snow     Unknown

**Condition of Runway/Landing Surface (Check all that apply)**

- Dry     Snow-Compacted     Water-Calm  
 Holes     Snow-Crusted     Water-Choppy  
 Ice Covered     Snow-Dry     Water-Glassy  
 Rough     Snow-Wet     Wet  
 Rubber Deposits     Soft  
 Slush-Covered     Vegetation     Unknown

**Approach/Departure Segment (Select one)**

- Taxi     VFR Departure     On Instrument Approach     Downwind     Low Approach  
 Takeoff     IFR Departure Procedure/Clearance     Landing     Base     Go Around  
 Initial Climb     Final     Aborted Landing (after touchdown)  
 Crosswind     Unknown

**IFR Approach (Check all that apply)**

- None
- ADF/NDB     PAR     MLS     Practice  
 SDF     Sidestep     LDA     GPS  
 VOR/TVOR     ILS     ASR  
 VOR/DME     Localizer Only     Visual  
 TACAN     LOC-back course     Contact  
 RNAV     Circling  
 Unknown

**VFR Approach (Check all that apply)**

- None
- Traffic Pattern     Stop and Go  
 Straight-In     Touch and Go  
 Valley/Terrain Following     Simulated Forced Landing  
 Go Around     Forced Landing  
 Full Stop     Precautionary Landing  
 Unknown

**“FLIGHT CREWMEMBER 1” INFORMATION**

**“Flight Crewmember 1” Responsibilities at the Time of Accident/Incident**

Pilot  Co-Pilot  Student Pilot  Flight Instructor  Check Pilot  Flight Engineer  Other Flight Crew

**“Flight Crewmember 1” was pilot flying**  Yes  No

**“Flight Crewmember 1” Identification**

First Name: John City of Residence: Cockeysville  
 Middle Initial: P State: MD ZIP: 21030  
 Last Name: Muchunu United States  
 Age at time of Accident/Incident: 35 Date of Birth: [REDACTED] mm/dd/yyyy  
 Certificate Number: [REDACTED]

<b>Degree of Injury</b> <input checked="checked" type="radio"/> None <input type="radio"/> Fatal <input type="radio"/> Minor <input type="radio"/> Unknown <input type="radio"/> Serious	<b>Seat Occupied</b> <input checked="checked" type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Unknown <input type="radio"/> Right <input type="radio"/> Rear <input type="radio"/> Center <input type="radio"/> Single	<b>Restraint Type</b>		<b>Inflatable Restraints</b> <input checked="checked" type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
		<b>Available</b> <input type="radio"/> None <input type="radio"/> Lap only <input type="radio"/> 3-point <input checked="checked" type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<b>Used</b> <input type="radio"/> None <input type="radio"/> Lap only <input type="radio"/> 3-point <input checked="checked" type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	
<b>Pilot Certificate(s)</b> (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input checked="checked" type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer				

<b>Principal Occupation</b> <input checked="checked" type="radio"/> Pilot <input type="radio"/> Other <input type="radio"/> Unknown	<b>Medical Certificate</b> <input type="radio"/> None <input type="radio"/> Class 3 <input checked="checked" type="radio"/> Class 1 <input type="radio"/> Driver’s License (Sport Pilot only) <input type="radio"/> Class 2 <input type="radio"/> Unknown	<b>Medical Certificate Validity</b> <input checked="checked" type="radio"/> Without limitations/waivers <input type="radio"/> Unknown <input type="radio"/> With limitations/waivers <input type="radio"/> N/A <input type="radio"/> Special Issuance	<b>Date of Last Medical</b> <u>03/23/2019</u> mm/dd/yyyy
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**Medical Certificate Limitations**

**Medical Certificate Special Issuance**

<b>Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:</b> <u>08/23/2019</u> mm/dd/yyyy	<b>Flight Review Aircraft</b> Make: <u>Cessna</u> Model: <u>Caravan</u>
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<b>Airplane Rating(s)</b> (Check all that apply) <input type="checkbox"/> None <input checked="checked" type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea	<b>Other Aircraft Rating(s)</b> (Check all that apply) <input checked="checked" type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	<b>Instrument Rating(s)</b> (Check all that apply) <input type="checkbox"/> None <input checked="checked" type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	<b>Instructor Rating(s)</b> (Check all that apply) <input checked="checked" type="checkbox"/> None <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Helicopter <input type="checkbox"/> Gyroplane <input type="checkbox"/> Glider <input type="checkbox"/> Powered Lift <input type="checkbox"/> Sport
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<b>Type Ratings</b> N/A	<b>Student Endorsements</b> (Include dates)
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Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	2,011	400	2,011		508	190	85			
Pilot in Command (PIC)	1,352	400	606							
Time as Instructor										
This Make/Model										
Last 90 Days	62	62	62		60					
Last 30 Days	34	34	34		33					
Last 24 Hours	4	4	4		4					

**“FLIGHT CREWMEMBER 2” INFORMATION**

**“Flight Crewmember 2” Responsibilities at the Time of Accident/Incident**

Pilot    Co-Pilot    Student Pilot    Flight Instructor    Check Pilot    Flight Engineer    Other Flight Crew

**“Flight Crewmember 2” was pilot flying**    Yes    No

**“Flight Crewmember 2” Identification**

First Name: \_\_\_\_\_ City of Residence: \_\_\_\_\_  
 Middle Initial: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 Last Name: \_\_\_\_\_ Country: \_\_\_\_\_  
 Age at time of Accident/Incident: \_\_\_\_\_ Date of Birth: \_\_\_\_\_ mm/dd/yyyy  
 Certificate Number: \_\_\_\_\_

<b>Degree of Injury</b> <input type="radio"/> None <input type="radio"/> Fatal <input type="radio"/> Minor <input type="radio"/> Unknown <input type="radio"/> Serious	<b>Seat Occupied</b> <input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Unknown <input type="radio"/> Right <input type="radio"/> Rear <input type="radio"/> Center <input type="radio"/> Single	<b>Restraint Type</b> <table style="width:100%;"> <tr> <th style="text-align: left;">Available</th> <th style="text-align: left;">Used</th> </tr> <tr> <td><input type="radio"/> None</td> <td><input type="radio"/> None</td> </tr> <tr> <td><input type="radio"/> Lap only</td> <td><input type="radio"/> Lap only</td> </tr> <tr> <td><input type="radio"/> 3-point</td> <td><input type="radio"/> 3-point</td> </tr> <tr> <td><input type="radio"/> 4-point</td> <td><input type="radio"/> 4-point</td> </tr> <tr> <td><input type="radio"/> 5-point</td> <td><input type="radio"/> 5-point</td> </tr> <tr> <td><input type="radio"/> Unknown</td> <td><input type="radio"/> Unknown</td> </tr> </table>	Available	Used	<input type="radio"/> None	<input type="radio"/> None	<input type="radio"/> Lap only	<input type="radio"/> Lap only	<input type="radio"/> 3-point	<input type="radio"/> 3-point	<input type="radio"/> 4-point	<input type="radio"/> 4-point	<input type="radio"/> 5-point	<input type="radio"/> 5-point	<input type="radio"/> Unknown	<input type="radio"/> Unknown	<b>Inflatable Restraints</b> <input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
Available	Used																
<input type="radio"/> None	<input type="radio"/> None																
<input type="radio"/> Lap only	<input type="radio"/> Lap only																
<input type="radio"/> 3-point	<input type="radio"/> 3-point																
<input type="radio"/> 4-point	<input type="radio"/> 4-point																
<input type="radio"/> 5-point	<input type="radio"/> 5-point																
<input type="radio"/> Unknown	<input type="radio"/> Unknown																
<b>Pilot Certificate(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military <input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign <input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer																	

<b>Principal Occupation</b> <input type="radio"/> Pilot <input type="radio"/> Other <input type="radio"/> Unknown	<b>Medical Certificate</b> <input type="radio"/> None <input type="radio"/> Class 3 <input type="radio"/> Class 1 <input type="radio"/> Driver’s License (Sport Pilot only) <input type="radio"/> Class 2 <input type="radio"/> Unknown	<b>Medical Certificate Validity</b> <input type="radio"/> Without limitations/waivers <input type="radio"/> Unknown <input type="radio"/> With limitations/waivers <input type="radio"/> N/A <input type="radio"/> Special Issuance	<b>Date of Last Medical</b> _____ mm/dd/yyyy
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**Medical Certificate Limitations**

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**Medical Certificate Special Issuance**

\_\_\_\_\_

<b>Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:</b> _____ mm/dd/yyyy	<b>Flight Review Aircraft</b> Make: _____ Model: _____
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<b>Airplane Rating(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea	<b>Other Aircraft Rating(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	<b>Instrument Rating(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift	<b>Instructor Rating(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Helicopter <input type="checkbox"/> Gyroplane <input type="checkbox"/> Glider <input type="checkbox"/> Powered Lift <input type="checkbox"/> Sport
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<b>Type Ratings</b> _____	<b>Student Endorsements</b> <i>(Include dates)</i> _____
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Flight Time <i>(Enter appropriate number of hours in each box)</i>	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time										
Pilot in Command (PIC)										
Time as Instructor										
This Make/Model										
Last 90 Days										
Last 30 Days										
Last 24 Hours										

**ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)**

<b>Crew Name and Address</b>		<b>Seat Occupied</b>	<b>Injury</b>
First Name: _____	City of Residence: _____	<input type="radio"/> Left	<input type="radio"/> None
Middle Initial: _____	State: _____ ZIP: _____	<input type="radio"/> Center	<input type="radio"/> Minor
Last Name: _____	Country: _____	<input type="radio"/> Right	<input type="radio"/> Serious
		<input type="radio"/> Front	<input type="radio"/> Fatal
		<input type="radio"/> Rear	<input type="radio"/> Unknown
		<input type="radio"/> Single	
		<input type="radio"/> Unknown	
<b>Pilot Certificate(s) (Check all that apply)</b>		<b>Restraint Type:</b>	<b>Inflatable Restraints</b>
<input type="checkbox"/> None	<input type="checkbox"/> Flight Instructor	<b>Available</b>	<b>Used</b>
<input type="checkbox"/> Private	<input type="checkbox"/> Recreational	<input type="radio"/> None	<input type="radio"/> None
<input type="checkbox"/> Student	<input type="checkbox"/> Sport	<input type="radio"/> Lap Only	<input type="radio"/> Lap Only
	<input type="checkbox"/> Commercial	<input type="radio"/> 3-point	<input type="radio"/> 3-point
	<input type="checkbox"/> Airline Transport	<input type="radio"/> 4-point	<input type="radio"/> 4-point
	<input type="checkbox"/> Flight Engineer	<input type="radio"/> 5-point	<input type="radio"/> 5-point
	<input type="checkbox"/> US Military	<input type="radio"/> Unknown	<input type="radio"/> Unknown
	<input type="checkbox"/> Foreign		
<b>Type Rating/Endorsement for Accident/Incident Aircraft?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Total Flight Time at the Time of this Accident/Incident:</b> _____ hrs	

<b>Crew Name and Address</b>		<b>Seat Occupied</b>	<b>Injury</b>
First Name: _____	City of Residence: _____	<input type="radio"/> Left	<input type="radio"/> None
Middle Initial: _____	State: _____ ZIP: _____	<input type="radio"/> Center	<input type="radio"/> Minor
Last Name: _____	Country: _____	<input type="radio"/> Right	<input type="radio"/> Serious
		<input type="radio"/> Front	<input type="radio"/> Fatal
		<input type="radio"/> Rear	<input type="radio"/> Unknown
		<input type="radio"/> Single	
		<input type="radio"/> Unknown	
<b>Pilot Certificate(s) (Check all that apply)</b>		<b>Restraint Type:</b>	<b>Inflatable Restraints</b>
<input type="checkbox"/> None	<input type="checkbox"/> Flight Instructor	<b>Available</b>	<b>Used</b>
<input type="checkbox"/> Private	<input type="checkbox"/> Recreational	<input type="radio"/> None	<input type="radio"/> None
<input type="checkbox"/> Student	<input type="checkbox"/> Sport	<input type="radio"/> Lap Only	<input type="radio"/> Lap Only
	<input type="checkbox"/> Commercial	<input type="radio"/> 3-point	<input type="radio"/> 3-point
	<input type="checkbox"/> Airline Transport	<input type="radio"/> 4-point	<input type="radio"/> 4-point
	<input type="checkbox"/> Flight Engineer	<input type="radio"/> 5-point	<input type="radio"/> 5-point
	<input type="checkbox"/> US Military	<input type="radio"/> Unknown	<input type="radio"/> Unknown
	<input type="checkbox"/> Foreign		
<b>Type Rating/Endorsement for Accident/Incident Aircraft?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Total Flight Time at the Time of this Accident/Incident:</b> _____ hrs	

**PASSENGER(S) / OTHER PERSONNEL (Include cabin crew; continue on separate sheet if necessary)**

Name and Address	Seat	Injury	Restraint Type	Inflatable Restraints	Age
First Name: _____ City : _____	<input type="radio"/> Left	<input type="radio"/> None	<b>Available</b>	<b>Used</b>	<input type="checkbox"/> Under 5 years
Middle Initial: _____ State: _____ ZIP: _____	<input type="radio"/> Center	<input type="radio"/> Minor	<input type="radio"/> None	<input type="radio"/> None	If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
Last Name: _____ Country: _____	<input type="radio"/> Right	<input type="radio"/> Serious	<input type="radio"/> Lap Only	<input type="radio"/> Lap Only	
<input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Unknown	<input type="radio"/> Fatal	<input type="radio"/> 3-point	<input type="radio"/> 3-point	
Row: _____	<input type="radio"/> Unknown	<input type="radio"/> Unknown	<input type="radio"/> 4-point	<input type="radio"/> 4-point	
First Name: _____ City : _____	<input type="radio"/> Left	<input type="radio"/> None	<b>Available</b>	<b>Used</b>	<input type="checkbox"/> Under 5 years
Middle Initial: _____ State: _____ ZIP: _____	<input type="radio"/> Center	<input type="radio"/> Minor	<input type="radio"/> None	<input type="radio"/> None	If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
Last Name: _____ Country: _____	<input type="radio"/> Right	<input type="radio"/> Serious	<input type="radio"/> Lap Only	<input type="radio"/> Lap Only	
<input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Unknown	<input type="radio"/> Fatal	<input type="radio"/> 3-point	<input type="radio"/> 3-point	
Row: _____	<input type="radio"/> Unknown	<input type="radio"/> Unknown	<input type="radio"/> 4-point	<input type="radio"/> 4-point	
First Name: _____ City : _____	<input type="radio"/> Left	<input type="radio"/> None	<b>Available</b>	<b>Used</b>	<input type="checkbox"/> Under 5 years
Middle Initial: _____ State: _____ ZIP: _____	<input type="radio"/> Center	<input type="radio"/> Minor	<input type="radio"/> None	<input type="radio"/> None	If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
Last Name: _____ Country: _____	<input type="radio"/> Right	<input type="radio"/> Serious	<input type="radio"/> Lap Only	<input type="radio"/> Lap Only	
<input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Unknown	<input type="radio"/> Fatal	<input type="radio"/> 3-point	<input type="radio"/> 3-point	
Row: _____	<input type="radio"/> Unknown	<input type="radio"/> Unknown	<input type="radio"/> 4-point	<input type="radio"/> 4-point	
First Name: _____ City : _____	<input type="radio"/> Left	<input type="radio"/> None	<b>Available</b>	<b>Used</b>	<input type="checkbox"/> Under 5 years
Middle Initial: _____ State: _____ ZIP: _____	<input type="radio"/> Center	<input type="radio"/> Minor	<input type="radio"/> None	<input type="radio"/> None	If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
Last Name: _____ Country: _____	<input type="radio"/> Right	<input type="radio"/> Serious	<input type="radio"/> Lap Only	<input type="radio"/> Lap Only	
<input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Unknown	<input type="radio"/> Fatal	<input type="radio"/> 3-point	<input type="radio"/> 3-point	
Row: _____	<input type="radio"/> Unknown	<input type="radio"/> Unknown	<input type="radio"/> 4-point	<input type="radio"/> 4-point	

## FLIGHT ITINERARY INFORMATION

<b>Last Departure Point</b> Airport ID: <u>EWR</u> City: <u>Newark</u> State: <u>NJ</u> Country: <u>United States</u>	<b>Time of Departure</b> Time: <u>08:03</u> Time Zone: <u>Zulu</u>	<b>Destination</b> Airport ID: <u>BWI</u> City: <u>Baltimore</u> State: <u>MD</u> Country: <u>United States</u>	<b>Type Flight Plan Filed</b> <input type="radio"/> None <input type="radio"/> Company VFR <input type="radio"/> Military VFR <input type="radio"/> VFR <input type="radio"/> VFR/IFR <input checked="" type="radio"/> IFR <input type="radio"/> Unknown Activated? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown
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**Type of ATC Clearance/Service** (Check all that apply)

<input type="checkbox"/> None	<input type="checkbox"/> Special VFR	<input type="checkbox"/> Special IFR	<input type="checkbox"/> VFR Flight Following	<input type="checkbox"/> Cruise
<input type="checkbox"/> VFR	<input checked="" type="checkbox"/> IFR	<input type="checkbox"/> VFR On Top	<input type="checkbox"/> Traffic Advisory	<input type="checkbox"/> Unknown / NA

**Airspace where the accident/incident occurred** (Check all that apply)

<input type="checkbox"/> Class A	<input type="checkbox"/> Class G	<input type="checkbox"/> Military Operations Area (MOA)	<input type="checkbox"/> Special
<input checked="" type="checkbox"/> Class B	<input type="checkbox"/> Demo Area	<input type="checkbox"/> Airport Advisory Area	<input type="checkbox"/> Air Traffic Control Area
<input type="checkbox"/> Class C	<input type="checkbox"/> Warning Area	<input type="checkbox"/> Jet Training Area	<input type="checkbox"/> Unknown
<input type="checkbox"/> Class D	<input type="checkbox"/> Prohibited Area	<input type="checkbox"/> TRSA	
<input type="checkbox"/> Class E	<input type="checkbox"/> Restricted Area	<input type="checkbox"/> FAR 93	

**Altitude of In-Flight Occurrence:** \_\_\_\_\_ ft msl

## WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

<b>Source of Pilot Weather Information</b> (Check all that apply) <table style="width: 100%;"> <tr> <td><input type="checkbox"/> National Weather Service</td> <td><input type="checkbox"/> Company</td> </tr> <tr> <td><input type="checkbox"/> Flight Service Station</td> <td><input type="checkbox"/> Military</td> </tr> <tr> <td><input type="checkbox"/> TV/Radio</td> <td><input type="checkbox"/> Internet</td> </tr> <tr> <td><input checked="" type="checkbox"/> Automated Report</td> <td><input type="checkbox"/> None</td> </tr> <tr> <td><input type="checkbox"/> Commercial Weather Service (DUATS)</td> <td><input type="checkbox"/> Unknown</td> </tr> <tr> <td><input checked="" type="checkbox"/> On-Board Weather</td> <td></td> </tr> </table>	<input type="checkbox"/> National Weather Service	<input type="checkbox"/> Company	<input type="checkbox"/> Flight Service Station	<input type="checkbox"/> Military	<input type="checkbox"/> TV/Radio	<input type="checkbox"/> Internet	<input checked="" type="checkbox"/> Automated Report	<input type="checkbox"/> None	<input type="checkbox"/> Commercial Weather Service (DUATS)	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> On-Board Weather		<b>Weather Observation Facility</b> Facility ID: <u>BWI ATIS</u> Observation Time: <u>0854</u> Time Zone: <u>Zulu</u> Distance from Accident Site: <u>0</u> nm Direction from Accident Site: <u>0</u> degrees true
<input type="checkbox"/> National Weather Service	<input type="checkbox"/> Company												
<input type="checkbox"/> Flight Service Station	<input type="checkbox"/> Military												
<input type="checkbox"/> TV/Radio	<input type="checkbox"/> Internet												
<input checked="" type="checkbox"/> Automated Report	<input type="checkbox"/> None												
<input type="checkbox"/> Commercial Weather Service (DUATS)	<input type="checkbox"/> Unknown												
<input checked="" type="checkbox"/> On-Board Weather													

<b>Basic Conditions</b> <input type="radio"/> VMC <input checked="" type="radio"/> IMC <input type="radio"/> Unknown	<b>Light Condition</b> <input type="radio"/> Dawn <input type="radio"/> Day <input type="radio"/> Dusk <input checked="" type="radio"/> Night <input type="radio"/> Dark Night <input type="radio"/> Bright Night <input type="radio"/> Unknown
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<b>Sky/Lowest Cloud Condition</b> <input type="radio"/> Clear <input type="radio"/> Few <input type="radio"/> Partial Obscuration <input type="radio"/> Scattered <input type="radio"/> Thin Broken <input checked="" type="radio"/> Thin Overcast <input type="radio"/> Unknown <b>Lowest Cloud Condition Height</b> <u>200</u> ft agl	<b>Ceiling</b> <input type="radio"/> None (Clear) <input type="radio"/> Broken <input checked="" type="radio"/> Overcast <input type="radio"/> Obscured <input type="radio"/> Indefinite <input type="radio"/> Unknown <b>Ceiling Height</b> <u>200</u> ft agl	<b>Temperature:</b> <u>08</u> (C) or _____ (F) <b>Dew Point:</b> <u>07</u> (C) or _____ (F) <b>Altimeter Setting:</b> <u>29.15</u> in. Hg or _____ MB
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<b>Wind Direction</b> <input checked="" type="checkbox"/> Variable -or- Direction: _____ degrees true	<b>Wind Speed</b> <input checked="" type="checkbox"/> Calm <input type="checkbox"/> Light and Variable -or- Speed: _____ kts	<b>Wind Gusts</b> <input checked="" type="checkbox"/> Not Gusting -or- Speed: _____ kts	<b>Visibility</b> <u>1/8</u> miles RVR: <u>1600</u> feet RVV: _____ miles <b>Density Altitude:</b> _____ ft
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<b>Intensity of Precipitation</b> <input type="radio"/> Light <input type="radio"/> Moderate <input type="radio"/> Heavy <input checked="" type="radio"/> N/A <input type="radio"/> Unknown	<b>Type of Precipitation</b> (Check all that apply) <table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> None</td> <td><input type="checkbox"/> Drizzle</td> <td><input type="checkbox"/> Freezing Rain</td> </tr> <tr> <td><input type="checkbox"/> Rain</td> <td><input type="checkbox"/> Ice Pellets</td> <td><input type="checkbox"/> Snow Shower</td> </tr> <tr> <td><input type="checkbox"/> Snow</td> <td><input type="checkbox"/> Snow Pellets</td> <td><input type="checkbox"/> Ice Pellets Shower</td> </tr> <tr> <td><input type="checkbox"/> Hail</td> <td><input type="checkbox"/> Snow Grains</td> <td><input type="checkbox"/> Freezing Drizzle</td> </tr> <tr> <td><input type="checkbox"/> Rain Showers</td> <td><input type="checkbox"/> Ice Crystals</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Freezing Rain	<input type="checkbox"/> Rain	<input type="checkbox"/> Ice Pellets	<input type="checkbox"/> Snow Shower	<input type="checkbox"/> Snow	<input type="checkbox"/> Snow Pellets	<input type="checkbox"/> Ice Pellets Shower	<input type="checkbox"/> Hail	<input type="checkbox"/> Snow Grains	<input type="checkbox"/> Freezing Drizzle	<input type="checkbox"/> Rain Showers	<input type="checkbox"/> Ice Crystals		<b>Restriction to Visibility</b> (Check all that apply) <table style="width: 100%;"> <tr> <td><input type="checkbox"/> None</td> <td><input checked="" type="checkbox"/> Fog</td> </tr> <tr> <td><input type="checkbox"/> Blowing Dust</td> <td><input type="checkbox"/> Ground Fog</td> </tr> <tr> <td><input type="checkbox"/> Blowing Sand</td> <td><input type="checkbox"/> Haze</td> </tr> <tr> <td><input type="checkbox"/> Blowing Snow</td> <td><input type="checkbox"/> Ice Fog</td> </tr> <tr> <td><input type="checkbox"/> Blowing Spray</td> <td><input type="checkbox"/> Smoke</td> </tr> <tr> <td><input type="checkbox"/> Dust</td> <td><input type="checkbox"/> Unknown</td> </tr> </table>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Fog	<input type="checkbox"/> Blowing Dust	<input type="checkbox"/> Ground Fog	<input type="checkbox"/> Blowing Sand	<input type="checkbox"/> Haze	<input type="checkbox"/> Blowing Snow	<input type="checkbox"/> Ice Fog	<input type="checkbox"/> Blowing Spray	<input type="checkbox"/> Smoke	<input type="checkbox"/> Dust	<input type="checkbox"/> Unknown
<input checked="" type="checkbox"/> None	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Freezing Rain																											
<input type="checkbox"/> Rain	<input type="checkbox"/> Ice Pellets	<input type="checkbox"/> Snow Shower																											
<input type="checkbox"/> Snow	<input type="checkbox"/> Snow Pellets	<input type="checkbox"/> Ice Pellets Shower																											
<input type="checkbox"/> Hail	<input type="checkbox"/> Snow Grains	<input type="checkbox"/> Freezing Drizzle																											
<input type="checkbox"/> Rain Showers	<input type="checkbox"/> Ice Crystals																												
<input type="checkbox"/> None	<input checked="" type="checkbox"/> Fog																												
<input type="checkbox"/> Blowing Dust	<input type="checkbox"/> Ground Fog																												
<input type="checkbox"/> Blowing Sand	<input type="checkbox"/> Haze																												
<input type="checkbox"/> Blowing Snow	<input type="checkbox"/> Ice Fog																												
<input type="checkbox"/> Blowing Spray	<input type="checkbox"/> Smoke																												
<input type="checkbox"/> Dust	<input type="checkbox"/> Unknown																												

<b>Icing Forecast</b> <table style="width: 100%;"> <tr> <th>Amount</th> <th>Type</th> </tr> <tr> <td><input type="radio"/> None</td> <td><input type="radio"/> N/A</td> </tr> <tr> <td><input type="radio"/> Trace</td> <td><input type="radio"/> Rime</td> </tr> <tr> <td><input type="radio"/> Light</td> <td><input type="radio"/> Clear</td> </tr> <tr> <td><input type="radio"/> Moderate</td> <td><input type="radio"/> Mixed</td> </tr> <tr> <td><input type="radio"/> Severe</td> <td><input checked="" type="radio"/> Unknown</td> </tr> <tr> <td><input checked="" type="radio"/> Unknown</td> <td></td> </tr> </table>	Amount	Type	<input type="radio"/> None	<input type="radio"/> N/A	<input type="radio"/> Trace	<input type="radio"/> Rime	<input type="radio"/> Light	<input type="radio"/> Clear	<input type="radio"/> Moderate	<input type="radio"/> Mixed	<input type="radio"/> Severe	<input checked="" type="radio"/> Unknown	<input checked="" type="radio"/> Unknown		<b>Icing Actual</b> <table style="width: 100%;"> <tr> <th>Amount</th> <th>Type</th> </tr> <tr> <td><input type="radio"/> None</td> <td><input type="radio"/> N/A</td> </tr> <tr> <td><input type="radio"/> Trace</td> <td><input type="radio"/> Rime</td> </tr> <tr> <td><input type="radio"/> Light</td> <td><input type="radio"/> Clear</td> </tr> <tr> <td><input type="radio"/> Moderate</td> <td><input type="radio"/> Mixed</td> </tr> <tr> <td><input type="radio"/> Severe</td> <td><input checked="" type="radio"/> Unknown</td> </tr> <tr> <td><input checked="" type="radio"/> Unknown</td> <td></td> </tr> </table>	Amount	Type	<input type="radio"/> None	<input type="radio"/> N/A	<input type="radio"/> Trace	<input type="radio"/> Rime	<input type="radio"/> Light	<input type="radio"/> Clear	<input type="radio"/> Moderate	<input type="radio"/> Mixed	<input type="radio"/> Severe	<input checked="" type="radio"/> Unknown	<input checked="" type="radio"/> Unknown		<b>Turbulence</b> <b>Type</b> (Check all that apply) <table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> None</td> <td><input type="checkbox"/> Light</td> </tr> <tr> <td><input type="checkbox"/> Clear Air</td> <td><input type="checkbox"/> Moderate</td> </tr> <tr> <td><input type="checkbox"/> Terrain-Induced</td> <td><input type="checkbox"/> Severe</td> </tr> <tr> <td><input type="checkbox"/> Convective Turbulence</td> <td><input type="checkbox"/> Extreme</td> </tr> </table>	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Light	<input type="checkbox"/> Clear Air	<input type="checkbox"/> Moderate	<input type="checkbox"/> Terrain-Induced	<input type="checkbox"/> Severe	<input type="checkbox"/> Convective Turbulence	<input type="checkbox"/> Extreme
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**NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:**  
See attached.



**DAMAGE TO AIRCRAFT AND OTHER PROPERTY****Aircraft Damage**

- None       Substantial  
 Minor       Destroyed  
               Unknown

**Aircraft Fire**

- None       Both Ground and In-Flight  
 In-Flight       Fire at Unknown Time  
 On-Ground       Unknown

**Aircraft Explosion**

- None       Both Ground and In-Flight  
 In-Flight       Explosion at Unknown Time  
 On-Ground       Unknown

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

The aircraft impacted 4 separate approach light towers for RWY 10 as well as the far field antenna. Three of the towers impacted had missing lights and broken crossbars. The 4th tower that was struck was knocked down completely. The far field antenna was twisted 45 degrees to the right as you are looking at the runway. A large piece of an approach light tower was still attached to the right main landing gear of the aircraft when it arrived at the ramp. Damaged locations on the aircraft include: Right horizontal stabilizer, right main landing gear, right wing strut, bottom of cargo pod, right side of cargo pod, front of cargo pod, one prop tip and wrinkling on the fuselage where the left horizontal stabilizer meets the fuselage. See attached pictures.

**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 departure time and location, services obtained, and intended destination. Provide as much detail as possible.

Following Interview was conducted by Richard Salter (DOS) and Lee Tomlinson (DO) in BWI on 2/7/2020

The PIC checked in on duty with operations at 0300Z on 2/7/2020 for his flight from BWI to EWR. The flight from BWI to EWR was uneventful. He indicated that he was well rested and was on the ground in EWR for approximately 40 minutes and that he was able to get a bite to eat while he was there. The first half of the flight from EWR to BWI was uneventful and there was not much traffic in the air.

The PIC was asked to walk us through the approach. He responded that he got the ATIS twice on the flight from EWR to BWI. The first time he received the ATIS was over Philadelphia. The PIC indicated that the first ATIS he received reported vertical visibility at 200' and 1600 RVR. ATIS was obtained a second time when he was transferred to Potomac Approach. The PIC indicated that the second ATIS reported vertical visibility at 200' and 1000 RVR. When later asked about the approach minimums for the ILS RWY 10 approach he stated that the visibility required to conduct that approach is 200' ceilings ½ mile visibility. He was also later asked what the altimeter setting was at the time and he could not recall. He stated that he did not reset the altimeters after landing and that the altimeters should currently be the same as what he originally set them.

The aircraft was cleared for the ILS RWY 10 and was vectored towards COLUM and vectored to join JEANS. The PIC indicated that he was utilizing the autopilot for the approach and disengaged the autopilot when he had the runway and airport lighting system in view at approximately 250'. It was at this time that the PIC indicated that he was "way inside" the final approach fix before he set flaps to 30 degrees and that he had left the flaps at 0 degrees because he did not want to balloon back into the weather and loose sight of the runway. He also indicated that he may have impacted the approach lighting system before the flaps were extended. He was unsure of exactly when he extended the flaps.

According to the PIC he transitioned to visual at approximately 250' while he disengaged the autopilot. He mentioned that he did not recall the PAPI's but did recall lining up on the center line lights perfectly. He "felt" the descent when transitioning to hand flying the aircraft, so he added power while mainly looking outside of the aircraft and did not recall continuing his scan inside the aircraft. He stated his speed was approximately 100 kts. The PIC was asked in a follow-up question after the interview if he received an aural warning for terrain and if the terrain database was current. He stated that the aircraft does not give that warning and that the database was current.

The PIC was asked what his first indication was that anything was wrong, and the PIC stated that he heard a sound and he felt the aircraft nose up so he added power and pitched down to make it to the runway. He did not look at the airspeed indicator, but he could feel a loss of airspeed. The PIC was also asked if he encountered any wind shear during the approach and he responded that he did not.

The PIC stated he was able to land the aircraft and that he still was not fully aware of what had happened, but the engine did not sound right. He continued to taxi to the FedEx ramp at that point. When he shut down on the ramp, he realized the extent of the damage and immediately contacted operations and notified the tower.

According to the PIC the weather was poor and there was fog. There were abnormalities or deferrals with the aircraft.

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

Operator/Owner Safety Recommendation

None at this time.

**MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)**Was there Mechanical Malfunction/Failure?  Yes  No  
(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)**Total Time/Cycles  
On Part**

\_\_\_\_\_ Hours

\_\_\_\_\_ Cycles

**Time Since This Part  
Inspected/Overhauled**

\_\_\_\_\_ Hours

**FUEL & SERVICES INFORMATION****Fuel on Board at Last Takeoff**

(Convert from pounds, as necessary)

257 Gallons**Fuel Type** 80/87 115/145 Jet B Other, specify \_\_\_\_\_ 100 Low Lead Jet A JP8 100/130 Jet A-1 Automotive**Other Services, if Any, Prior to Departure****EVACUATION OF AIRCRAFT**Was an emergency evacuation of the aircraft performed?  Yes  No**Method of Exit** – Describe how the occupants exited and how many occupants evacuated each location**OTHER AIRCRAFT – COLLISION (If air or ground collision occurred, complete this section for other aircraft)**

Aircraft Registration Number

Manufacturer: \_\_\_\_\_

**Damage to Other Aircraft**

Model: \_\_\_\_\_

 Destroyed Minor Substantial None**Registered Owner of Other Aircraft**

Name: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Country: \_\_\_\_\_

**Pilot of Other Aircraft**

Name: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Country: \_\_\_\_\_

**ADDITIONAL INFORMATION (Please type or print in ink)**

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

**I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****Date of this Report**02/10/2020*mm/dd/yyyy***Name of Pilot/Operator:** Mountain Air Cargo**Signature:** \_\_\_\_\_-- or --  Check here to electronically sign this document**If a Person Other than Pilot/Operator is Filing Report****Name:** Richard Salter**Title:** Director of Safety**Signature:** \_\_\_\_\_-- or --  Check here to electronically sign this document**FOR NTSB USE ONLY****NTSB Accident/Incident No.**

ERA20LA095

**Reviewed by NTSB Regional Office**

ERA

**Name of Investigator**

Alleyne

**Date Report Received**

2/10/2020