

## 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 cowl, 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**

**Accident/Incident Location**  
 Nearest City/Place: Madison State: WI  
 ZIP: 53704 Country: USA  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
*(Enter in decimal degrees or degrees:minutes:seconds)*

**Accident/Incident Date/Time**  
 Date: 07/21/2019 Local Time: 0855  
*mm/dd/yyyy* Time Zone: CDT  
**Collision with Other Aircraft:**  Midair  On-ground  None

**AIRCRAFT INFORMATION**

**Registration Number:** \_\_\_\_\_  
**Manufacturer:** Mooney  
**Model:** M20U  
**Serial Number:** 32-0001  
**Year of Manufacture:** 2015  
**Amateur-Built:**  Yes  No *If Yes:*  Kit/Plans  Original Design *Make:* \_\_\_\_\_

IFR-Equipped and Certified  
 Commercial Space Flight  
 Unmanned Aircraft  
**Maximum Gross Weight:** 3368 lbs  
**Weight at Time of Accident/Incident:** 3110 lbs  
**Number of Seats:** 4 Flight Crew Seats: 1  
 Cabin Crew Seats: 2 Passenger Seats: 2  
**Number of Engines:** 1

**Category of Aircraft**  
 Airplane  
 Balloon  
 Blimp/Dirigible  
 Glider  
 Gyroplane  
 Helicopter  
 Powered Lift  
 Rocket  
 Ultralight  
 Unknown

**Type of Airworthiness Certificate**  
*(Check all that apply)*  
**Standard**  
 Normal  
 Aerobatic  
 Balloon  
 Commuter  
 Transport  
 Utility  
 Certificate of Authorization or Waiver (COA)  
 None  
**Special**  
 Restricted  
 Limited  
 Provisional  
 Special Flight  
 Experimental  
 Special Light-Sport  
 Experimental Light-Sport  
 Unknown

**Landing Gear**  
*(Check all that apply)*  
 Retractable  
 Tricycle  Tailwheel  
 Amphibian  High Skid  
 Emergency Float  Skid  
 Float  Ski  
 Hull  Ski/Wheel  
 Other Launch/Recovery System  
 None  Unknown

**Engine Type** *(Select one)*  
 Reciprocating  Liquid Rocket  
 Turbo Shaft  Solid Rocket  
 Turbo Prop  Hybrid Rocket  
 Turbo Jet  None  
 Turbo Fan  Unknown  
 Electric  
**Fuel System Type** *(Reciprocating)*  
 Carburetor  Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. <i>mm/dd/yyyy</i>	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	Continental	IO550G			310	290		
Eng. 2								
Eng. 3								
Eng. 4								

**Last Inspection Type**  
 100-Hour  Continuous Airworthiness  
 AAIP  Conditional Inspection  
 Annual  Unknown  
**Date Last Inspection:** \_\_\_\_\_  
*mm/dd/yyyy*  
**Airframe Total Time:** \_\_\_\_\_ hrs  
 hours measured at *(Select one)*  
 Last Inspection  Time of Accident/Incident

**Propeller 1**  Fixed Pitch  
 Controllable Pitch  
 Ground Adjustable  
 Manufacturer: Hartzell  
 Model: \_\_\_\_\_

**Propeller 2**  Fixed Pitch  
 Controllable Pitch  
 Ground Adjustable  
 Manufacturer: \_\_\_\_\_  
 Model: \_\_\_\_\_

**Type of Maintenance Program** *(Select one)*  
 Annual  
 Conditional (Amateur-built only)  
 Manufacturer's Inspection Program  
 Other Approved Inspection Program (AAIP)  
 Continuous Airworthiness  
 Other, specify: \_\_\_\_\_

**ELT Installed:**  Yes  No  
*If Yes:*  
**ELT Manufacturer:** \_\_\_\_\_  
**Model or Part No.:** \_\_\_\_\_  
**TSO No.:**  C91 (121.5 MHz)  C91a (121.5 MHz)  
 C126 (406 MHz)  
**Was ELT still mounted in aircraft?**  Yes  No  
**Was ELT still connected to antenna?**  Yes  No  
**Did ELT Activate?**  Yes  No  
*If activated:*  
**Did ELT Aid in Locating Aircraft?**  Yes  No  
*If not activated:*

**Additional Equipment** *(Check all that apply)*  
 ADS-B  
 Airframe Parachute  
 Angle of Attack Indicator  
 Autopilot  
 Data Recorder  
 Electronic Flight Bag or Handheld Device  
 Electronic Multifunction Display  
 Electronic Primary Flight Display  
 Handheld GPS  
 Heads Up Display  
 Onboard Weather  
 Satellite Tracking Device  
 Stall Warning System  
 Video Recording Device  
 Other, Specify: \_\_\_\_\_

**Description of Fire Extinguishing System**  
 None  
 Specify: Bottle

**Indicate Reason:**  Impact Damage  
 Fire Damage  
 Battery Expired/Damaged  
 Unknown

**OWNER/OPERATOR INFORMATION****Registered Aircraft Owner**Name: Mooney InternationalCity: KerrvilleFractional Ownership Aircraft:  Yes  NoState: TX ZIP: 78028Country: USA**Operator of Aircraft** Same As Registered Owner Same Address as Registered Owner

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

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

Doing Business As: \_\_\_\_\_

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

Air Carrier/Operator Designator (4 Character Code): \_\_\_\_\_

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

**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: \_\_\_\_\_

Distance From Airport Center: \_\_\_\_\_ sm

Airport Identifier: \_\_\_\_\_

Direction From Airport: \_\_\_\_\_ degrees true

Proximity to Airport:  Off Airport/Airstrip     On Airport/Airstrip     N/A

Airport Elevation: \_\_\_\_\_ ft. msl

**Runway Information**

Runway ID: \_\_\_\_\_ (L/R/C) Length: \_\_\_\_\_ ft Width: \_\_\_\_\_ 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     Crosswind     Aborted Landing (after touchdown)     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: Kevin

City of Residence: Kerrville

Middle Initial: M

State: TX ZIP: 78028

Last Name: Kammer

Country: USA

Age at time of Accident/Incident: 61 Date of Birth:                      mm/dd/yyyy

Certificate Number:                     

<b>Degree of Injury</b> <input 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="" 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>Available</b> <input type="radio"/> None <input type="radio"/> Lap only <input checked="" type="radio"/> 3-point <input 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 checked="" type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<b>Inflatable Restraints</b> <input type="checkbox"/> Not Installed <input checked="" type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown
<b>Pilot Certificate(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input checked="" type="checkbox"/> Flight Instructor <input 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 type="radio"/> Pilot <input checked="" 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 checked="" type="radio"/> Class 2 <input type="radio"/> Unknown		<b>Medical Certificate Validity</b> <input type="radio"/> Without limitations/waivers <input type="radio"/> Unknown <input checked="" type="radio"/> With limitations/waivers <input type="radio"/> N/A <input type="radio"/> Special Issuance		<b>Date of Last Medical</b> <u>5/2/2019</u> mm/dd/yyyy	
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**Medical Certificate Limitations**

Must wear corrective lenses

**Medical Certificate Special Issuance**

**Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:**

mm/dd/yyyy

**Flight Review Aircraft**

Make: Aeronca  
 Model: 7AC Champ

<b>Airplane Rating(s)</b> <i>(Check all that apply)</i> <input type="checkbox"/> None <input checked="" type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input checked="" 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 checked="" 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 checked="" type="checkbox"/> Instrument Airplane <input checked="" type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Instrument Helicopter <input checked="" 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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**Type Ratings**

**Student Endorsements** *(Include dates)*

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	4600	1800								
Pilot in Command (PIC)										
Time as Instructor										
This Make/Model										
Last 90 Days	45									
Last 30 Days										
Last 24 Hours	1									

**“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																

**Pilot Certificate(s)** *(Check all that apply)*

<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
--	--	--	---

**Medical Certificate Limitations**

\_\_\_\_\_

**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"/> Airplane Single-Engine <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> Sport
--	---	---	--

<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)**

Crew Name and Address	Seat Occupied	Injury
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown
<b>Pilot Certificate(s)</b> (Check all that apply) <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>Restraint Type:</b> <b>Available</b> <b>Used</b> <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
<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	

Crew Name and Address	Seat Occupied	Injury
First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____	<input type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Center <input type="radio"/> Rear <input type="radio"/> Right <input type="radio"/> Single <input type="radio"/> Unknown	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown
<b>Pilot Certificate(s)</b> (Check all that apply) <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>Restraint Type:</b> <b>Available</b> <b>Used</b> <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
<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: <u>MIKE</u> City : <u>KERRVILLE</u> Middle Initial: _____ State: <u>TX</u> ZIP: <u>78028</u> Last Name: <u>KNEESE</u> Country: <u>USA</u>  <input type="radio"/> Crew <input checked="" type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input checked="" type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input checked="" type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<b>Available</b> <input type="radio"/> None <input type="radio"/> Lap Only <input checked="" type="radio"/> 3-point <input 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 checked="" type="radio"/> 3-point <input type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input checked="" type="checkbox"/> Installed <input checked="" type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City : _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____  <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<b>Available</b> <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input 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 type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City : _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____  <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<b>Available</b> <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input 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 type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown
First Name: _____ City : _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____  <input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other	<input type="radio"/> Left <input type="radio"/> Center <input type="radio"/> Right <input type="radio"/> Unknown Row: _____	<input type="radio"/> None <input type="radio"/> Minor <input type="radio"/> Serious <input type="radio"/> Fatal <input type="radio"/> Unknown	<b>Available</b> <input type="radio"/> None <input type="radio"/> Lap Only <input type="radio"/> 3-point <input 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 type="radio"/> 4-point <input type="radio"/> 5-point <input type="radio"/> Unknown	<input type="checkbox"/> Not Installed <input type="checkbox"/> Installed <input type="checkbox"/> Not Deployed <input type="checkbox"/> Deployed <input type="checkbox"/> Unknown	<input type="checkbox"/> Under 5 years If Under 5, <input type="radio"/> Child Restraint <input type="radio"/> Lap-Held <input type="radio"/> Unknown

## FLIGHT ITINERARY INFORMATION

<b>Last Departure Point</b> Airport ID: <u>KMSN</u> City: <u>Madison</u> State: <u>WI</u> Country: <u>USA</u>	<b>Time of Departure</b> Time: _____ Time Zone: _____	<b>Destination</b> Airport ID: <u>KOSH</u> City: <u>Oshkosh</u> State: <u>WI</u> Country: <u>USA</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 checked="" type="radio"/> VFR/IFR <input type="radio"/> IFR <input type="radio"/> Unknown Activated? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown
---	---	--	---

**Type of ATC Clearance/Service** (Check all that apply)

<input type="checkbox"/> None	<input type="checkbox"/> Special VFR	<input type="checkbox"/> Special IFR	<input checked="" type="checkbox"/> VFR Flight Following	<input type="checkbox"/> Cruise
<input checked="" type="checkbox"/> VFR	<input 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 checked="" type="checkbox"/> Class G	<input type="checkbox"/> Military Operations Area (MOA)	<input type="checkbox"/> Special
<input 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 checked="" type="checkbox"/> National Weather Service</td> <td><input checked="" type="checkbox"/> Company</td> </tr> <tr> <td><input checked="" type="checkbox"/> Flight Service Station</td> <td><input type="checkbox"/> Military</td> </tr> <tr> <td><input type="checkbox"/> TV/Radio</td> <td><input checked="" type="checkbox"/> Internet</td> </tr> <tr> <td><input checked="" type="checkbox"/> Automated Report</td> <td><input type="checkbox"/> None</td> </tr> <tr> <td><input checked="" 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 checked="" type="checkbox"/> National Weather Service	<input checked="" type="checkbox"/> Company	<input checked="" type="checkbox"/> Flight Service Station	<input type="checkbox"/> Military	<input type="checkbox"/> TV/Radio	<input checked="" type="checkbox"/> Internet	<input checked="" type="checkbox"/> Automated Report	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Commercial Weather Service (DUATS)	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> On-Board Weather		<b>Weather Observation Facility</b> Facility ID: _____ Observation Time: _____ Time Zone: _____ Distance from Accident Site: _____ nm Direction from Accident Site: _____ degrees true
<input checked="" type="checkbox"/> National Weather Service	<input checked="" type="checkbox"/> Company												
<input checked="" type="checkbox"/> Flight Service Station	<input type="checkbox"/> Military												
<input type="checkbox"/> TV/Radio	<input checked="" type="checkbox"/> Internet												
<input checked="" type="checkbox"/> Automated Report	<input type="checkbox"/> None												
<input checked="" type="checkbox"/> Commercial Weather Service (DUATS)	<input type="checkbox"/> Unknown												
<input checked="" type="checkbox"/> On-Board Weather													

<b>Basic Conditions</b> <input checked="" type="radio"/> VMC <input type="radio"/> IMC <input type="radio"/> Unknown	<b>Light Condition</b> <input type="radio"/> Dawn <input type="radio"/> Dusk <input type="radio"/> Dark Night <input type="radio"/> Unknown <input checked="" type="radio"/> Day <input type="radio"/> Night <input type="radio"/> Bright Night
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<b>Sky/Lowest Cloud Condition</b> <input type="radio"/> Clear <input checked="" type="radio"/> Thin Broken <input type="radio"/> Few <input type="radio"/> Thin Overcast <input type="radio"/> Partial Obscuration <input type="radio"/> Unknown <input type="radio"/> Scattered <b>Lowest Cloud Condition Height</b> <u>10000</u> ft agl	<b>Ceiling</b> <input type="radio"/> None (Clear) <input type="radio"/> Obscured <input checked="" type="radio"/> Broken <input type="radio"/> Indefinite <input type="radio"/> Overcast <input type="radio"/> Unknown <b>Ceiling Height</b> <u>10000</u> ft agl	<b>Temperature:</b> _____ (C) or _____ (F) <b>Dew Point:</b> _____ (C) or _____ (F) <b>Altimeter Setting:</b> _____ in. Hg or _____ MB
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<b>Wind Direction</b> <input type="checkbox"/> Variable -or- Direction: _____ degrees true	<b>Wind Speed</b> <input type="checkbox"/> Calm <input type="checkbox"/> Light and Variable -or- Speed: _____ kts	<b>Wind Gusts</b> <input type="checkbox"/> Not Gusting -or- Speed: _____ kts	<b>Visibility</b> _____ miles RVR: _____ 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 type="radio"/> N/A <input type="radio"/> Unknown	<b>Type of Precipitation</b> (Check all that apply) <table style="width: 100%;"> <tr> <td><input 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 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 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 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 type="checkbox"/> None	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Freezing Rain																											
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<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 type="radio"/> Unknown</td> </tr> <tr> <td><input 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 type="radio"/> Unknown	<input 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 type="radio"/> Unknown</td> </tr> <tr> <td><input 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 type="radio"/> Unknown	<input type="radio"/> Unknown		<b>Turbulence</b> <b>Type</b> (Check all that apply) <table style="width: 100%;"> <tr> <td><input 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 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
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 type="radio"/> Unknown																																					
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<input type="radio"/> Moderate	<input type="radio"/> Mixed																																					
<input type="radio"/> Severe	<input type="radio"/> Unknown																																					
<input type="radio"/> Unknown																																						
<input 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																																					

**NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:**



**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)*

8" of trailing edge of rudder trim tab bent.

**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.

On 21 July 2019 in VFR weather I departed KMSN in N197CV, 2015 Mooney Ovation Ultra, as second aircraft in Whiskey element of two aircraft. Lead Aircraft was N9201A ("W Lead").

We had briefed joining on the two-ship element ahead as "3" and "4" in "finger-four" formation. As briefed, after takeoff I crossed-under from left to right of Lead Aircraft to join in normal fingertip on Whiskey Lead's right. Whiskey Lead began closing on the Victor element ahead.

While maintaining position, I experienced significant wake vortices from preceding 60-odd aircraft. I was moved above Whiskey Lead and briefly lost sight. I deconflicted turning away and descending from the element. I heard "Tail" (the last aircraft in our formation traveling behind Whiskey element) ask Whiskey Lead if he had "kissed me off" (released me from the formation) and I heard Whiskey lead respond "no." I visually reacquired Whiskey Lead to my left. "Tail" asked would I rejoin and I replied "yes." I rejoined Whiskey Lead and proceeded uneventfully to Oshkosh for landing as briefed.

At no time did I either observe or experience any flight control issues during the flight, landing or taxi. I was unaware the aircraft had touched until after landing, when I exited the aircraft and observed damage to my rudder trim tab, which I pointed out to Whiskey Lead pilot.

We called the NTSB and made a verbal report to Karla at [REDACTED].

See attachments:

1. Photo of Lead and Wing Whiskey element aircraft in as-briefed intended positions.
2. Written brief as presented to flight.
3. FFI formation guide and Mooney-specific supplement governing formation flight
4. LOA for Mooney Caravan Flight

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

Operator/Owner Safety Recommendation

**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)

60 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

N9201AManufacturer: MooneyModel: M20J**Damage to Other Aircraft**
 Destroyed                       Minor  
 Substantial                       None
**Registered Owner of Other Aircraft**
Name: N9201A LLC  
City: Las Vegas  
State: NV                      ZIP: \_\_\_\_\_  
Country: USA
**Pilot of Other Aircraft**
Name: Lawrence Brennan  
City: \_\_\_\_\_  
State: \_\_\_\_\_                      ZIP: \_\_\_\_\_  
Country: \_\_\_\_\_

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

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

Please see attached materials  
Statements, FFI materials, Mission Briefing, and LOA.

**I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

<b>Date of this Report</b> <u>7/24/2019</u> <i>mm/dd/yyyy</i>	<b>Name of Pilot/Operator:</b> <u>Kevin Kammer</u> <b>Signature:</b> _____ <i>-- or --</i> <input checked="" type="checkbox"/> Check here to electronically sign this document
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**If a Person Other than Pilot/Operator is Filing Report**

**Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_  
**Signature:** \_\_\_\_\_  
*-- or --*  Check here to electronically sign this document

**FOR NTSB USE ONLY**

<b>NTSB Accident/Incident No.</b> CEN19IA234B	<b>Reviewed by NTSB Regional Office</b> Central Region	<b>Name of Investigator</b> Rodi	<b>Date Report Received</b> 7/24/2019
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