

# 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: Sawyer State: MI

ZIP: 49885 Country: USA

Latitude: 46:19.14' Longitude: 87:17.06

(Enter in decimal degrees or degrees:minutes:seconds)

### Accident/Incident Date/Time

Date: 09/02/2019 Local Time: 20:25

mm/dd/yyyy

Time Zone: EDT

Collision with Other Aircraft: ☐ Midair ☐ On-ground ☒ None

## AIRCRAFT INFORMATION

Registration Number: N2909U

Manufacturer: Piper

Model: Warrior

Serial Number: \_\_\_\_\_

Year of Manufacture: 1979

Amateur-Built: ☐ Yes ☒ No If Yes: ☐ Kit/Plans ☐ Original Design Make: \_\_\_\_\_

☒ IFR-Equipped and Certified

☐ Commercial Space Flight

☐ Unmanned Aircraft

Maximum Gross Weight: 2440 lbs

Weight at Time of Accident/Incident: \_\_\_\_\_ lbs

Number of Seats: 4 Flight Crew Seats: 2

Cabin Crew Seats: \_\_\_\_\_ 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

#### Special

- ☐ Restricted
- ☐ Limited
- ☐ Provisional
- ☐ Special Flight
- ☐ Experimental
- ☐ Special Light-Sport
- ☐ Experimental Light-Sport

☐ Certificate of Authorization or Waiver (COA)  
☐ None ☐ 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.<br>mm/dd/yyyy | Rated Power<br><input checked="" type="radio"/> Horsepower or<br><input type="radio"/> lbs of Thrust | Total Time<br>(hours) | Time Since:<br>Inspection<br>(hours) | Overhaul<br>(hours) |
|--------|---------------------|---------------------|------------------------------|----------------------------|------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|---------------------|
| Eng. 1 | <u>Lycoming</u>     |                     |                              |                            | <u>160</u>                                                                                           |                       |                                      | <u>&lt;200</u>      |
| Eng. 2 |                     |                     |                              |                            |                                                                                                      |                       |                                      |                     |
| Eng. 3 |                     |                     |                              |                            |                                                                                                      |                       |                                      |                     |
| Eng. 4 |                     |                     |                              |                            |                                                                                                      |                       |                                      |                     |

### Last Inspection Type

- ☐ 100-Hour ☐ Continuous Airworthiness
- ☐ AAIP ☐ Conditional Inspection
- ☒ Annual ☐ Unknown

Date Last Inspection: Feb 2019  
mm/dd/yyyy

Airframe Total Time: 10000+ hrs

hours measured at (Select one)

☒ Last Inspection ☐ Time of Accident/Incident

### Type of Maintenance Program (Select one)

- ☒ Annual
- ☐ Conditional (Amateur-built only)
- ☐ Manufacturer's Inspection Program
- ☐ Other Approved Inspection Program (AAIP)
- ☐ Continuous Airworthiness
- ☐ Other, specify: \_\_\_\_\_

### Description of Fire Extinguishing System

- ☐ None
- ☒ Specify: Hand held

### Propeller 1

- ☒ Fixed Pitch
- ☐ Controllable Pitch
- ☐ Ground Adjustable

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

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

### Propeller 2

- ☐ Fixed Pitch
- ☐ Controllable Pitch
- ☐ Ground Adjustable

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

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

ELT Installed: ☒ Yes ☐ No

If Yes:

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

Model or Part No.: \_\_\_\_\_

TSO No.: ☐ OC91 (121.5 MHz) ☐ OC91a (121.5 MHz)  
☐ OC126 (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:

- Indicate Reason:
- ☐ Impact Damage
  - ☐ Fire Damage
  - ☐ Battery Expired/Damaged
  - ☐ Unknown

### 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: \_\_\_\_\_

**OWNER/OPERATOR INFORMATION****Registered Aircraft Owner**Name: Marquette County Flying ClubCity: MarquetteFractional Ownership Aircraft: ☐ Yes ☒ NoState: MI ZIP: 49855Country: 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 ☐ 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: Brian City of Residence: Munising  
 Middle Initial: R State: MI ZIP: 49862  
 Last Name: Ciupak Country: USA  
 Age at time of Accident/Incident: 46 Date of Birth: mm/dd/yyyy  
 Certificate Number: mm/dd/yyyy

| <b>Degree of Injury</b><br><input checked="" type="radio"/> None <input type="radio"/> Fatal<br><input type="radio"/> Minor <input type="radio"/> Unknown<br><input type="radio"/> Serious                                                                                                                                                                                                                                                                                           | <b>Seat Occupied</b><br><input checked="" type="radio"/> Left <input type="radio"/> Front <input type="radio"/> Unknown<br><input type="radio"/> Right <input type="radio"/> Rear<br><input type="radio"/> Center <input type="radio"/> Single          | <b>Restraint Type</b><br><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 checked="" type="radio"/> 3-point</td> <td><input checked="" 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 checked="" type="radio"/> 3-point | <input checked="" 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><br><input checked="" type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><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 checked="" type="radio"/> 3-point                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" 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> (Check all that apply)<br><input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military<br><input checked="" type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign<br><input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer |                                                                                                                                                                                                                                                         | <b>Medical Certificate</b><br><input type="radio"/> None <input checked="" type="radio"/> Class 3<br><input type="radio"/> Class 1 <input type="radio"/> Driver's License (Sport Pilot only)<br><input type="radio"/> Class 2 <input type="radio"/> Unknown                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                       |      |                            |                            |                                |                                |                                          |                                          |                               |                               |                               |                               |                               |                               |                                                                                                                                                                                                                                           |
| <b>Principal Occupation</b><br><input type="radio"/> Pilot<br><input checked="" type="radio"/> Other<br><input type="radio"/> Unknown                                                                                                                                                                                                                                                                                                                                                | <b>Medical Certificate Validity</b><br><input type="radio"/> Without limitations/waivers <input type="radio"/> Unknown<br><input checked="" type="radio"/> With limitations/waivers <input type="radio"/> N/A<br><input type="radio"/> Special Issuance |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Date of Last Medical</b><br><u>01/03/2018</u><br><i>mm/dd/yyyy</i> |      |                            |                            |                                |                                |                                          |                                          |                               |                               |                               |                               |                               |                               |                                                                                                                                                                                                                                           |

### Medical Certificate Limitations

Must have available glasses for near vision.

### Medical Certificate Special Issuance

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

11/28/2018  
*mm/dd/yyyy*

### Flight Review Aircraft

Make: Piper

Model: PA-28-161 (N2909U)

|                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Airplane Rating(s)</b><br><i>(Check all that apply)</i><br><input type="checkbox"/> None<br><input checked="" type="checkbox"/> Single-Engine Land<br><input type="checkbox"/> Single-Engine Sea<br><input type="checkbox"/> Multiengine Land<br><input type="checkbox"/> Multiengine Sea | <b>Other Aircraft Rating(s)</b><br><i>(Check all that apply)</i><br><input checked="" type="checkbox"/> None<br><input type="checkbox"/> Airship<br><input type="checkbox"/> Balloon<br><input type="checkbox"/> Glider<br><input type="checkbox"/> Gyroplane<br><input type="checkbox"/> Helicopter<br><input type="checkbox"/> Powered Lift | <b>Instrument Rating(s)</b><br><i>(Check all that apply)</i><br><input checked="" type="checkbox"/> None<br><input type="checkbox"/> Airplane<br><input type="checkbox"/> Helicopter<br><input type="checkbox"/> Powered Lift | <b>Instructor Rating(s)</b><br><i>(Check all that apply)</i><br><input checked="" type="checkbox"/> None <input type="checkbox"/> Instrument Airplane<br><input type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Instrument Helicopter<br><input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Helicopter<br><input type="checkbox"/> Gyroplane <input type="checkbox"/> Glider<br><input type="checkbox"/> Powered Lift <input type="checkbox"/> Sport |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Type Ratings

### Student Endorsements (Include dates)

| Flight Time (Enter appropriate number of hours in each box) | All Aircraft | This Make & Model | Airplane Single Engine | Airplane Multiengine | Night | Instrument |           | Rotorcraft | Glider | Lighter Than Air |
|-------------------------------------------------------------|--------------|-------------------|------------------------|----------------------|-------|------------|-----------|------------|--------|------------------|
|                                                             |              |                   |                        |                      |       | Actual     | Simulated |            |        |                  |
| Total Time                                                  | 139          | 79                | 89                     | 0                    | 3     | 0          | 3         | 0          | 50     | 0                |
| Pilot in Command (PIC)                                      | 89           | 44                | 44                     | 0                    | 0     | 0          | 0         | 0          | 45     | 0                |
| Time as Instructor                                          | 0            | 0                 | 0                      | 0                    | 0     | 0          | 0         | 0          | 0      | 0                |
| This Make/Model                                             |              |                   |                        |                      | 3     | 0          | 3         |            |        |                  |
| Last 90 Days                                                | 14           | 14                | 14                     | 0                    | 0     | 0          | 0         | 0          | 0      | 0                |
| Last 30 Days                                                | 9            | 9                 | 9                      | 0                    | 0     | 0          | 0         | 0          | 0      | 0                |
| Last 24 Hours                                               | 3            | 3                 | 3                      | 0                    | 0     | 0          | 0         | 0          | 0      | 0                |

## “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: \_\_\_\_\_

#### Degree of Injury

☐ None   ☐ Fatal  
☐ Minor   ☐ Unknown  
☐ Serious

#### Seat Occupied

☐ Left   ☐ Front   ☐ Unknown  
☐ Right   ☐ Rear  
☐ Center   ☐ Single

#### Restraint Type

##### Available

☐ None  
☐ Lap only  
☐ 3-point  
☐ 4-point  
☐ 5-point  
☐ Unknown

##### Used

☐ None  
☐ Lap only  
☐ 3-point  
☐ 4-point  
☐ 5-point  
☐ Unknown

#### Inflatable Restraints

☐ Not Installed  
☐ Installed  
☐ Not Deployed  
☐ Deployed  
☐ Unknown

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

☐ None   ☐ Flight Instructor   ☐ Commercial   ☐ US Military  
☐ Private   ☐ Recreational   ☐ Airline Transport   ☐ Foreign  
☐ Student   ☐ Sport   ☐ Flight Engineer

#### Principal Occupation

☐ Pilot  
☐ Other  
☐ Unknown

#### Medical Certificate

☐ None   ☐ Class 3  
☐ Class 1   ☐ Driver's License (Sport Pilot only)  
☐ Class 2   ☐ Unknown

#### Medical Certificate Validity

☐ Without limitations/waivers   ☐ Unknown  
☐ With limitations/waivers   ☐ N/A  
☐ Special Issuance

#### Date of Last Medical

\_\_\_\_\_ mm/dd/yyyy

#### Medical Certificate Limitations

#### Medical Certificate Special Issuance

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

\_\_\_\_\_ mm/dd/yyyy

#### Flight Review Aircraft

Make: \_\_\_\_\_

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

#### Airplane Rating(s) (Check all that apply)

☐ None  
☐ Single-Engine Land  
☐ Single-Engine Sea  
☐ Multiengine Land  
☐ Multiengine Sea

#### Other Aircraft Rating(s) (Check all that apply)

☐ None  
☐ Airship  
☐ Balloon  
☐ Glider  
☐ Gyroplane  
☐ Helicopter  
☐ Powered Lift

#### Instrument Rating(s) (Check all that apply)

☐ None  
☐ Airplane  
☐ Helicopter  
☐ Powered Lift

#### Instructor Rating(s) (Check all that apply)

☐ None   ☐ Instrument Airplane  
☐ Airplane Single-Engine   ☐ Instrument Helicopter  
☐ Airplane Multi-Engine   ☐ Helicopter  
☐ Gyroplane   ☐ Glider  
☐ Powered Lift   ☐ Sport

#### Type Ratings

#### Student Endorsements (Include dates)

| Flight Time (Enter appropriate number of hours in each box) | All Aircraft | This Make & Model | Airplane Single Engine | Airplane Multiengine | Night | 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: _____<br>Middle Initial: _____ State: _____ ZIP: _____<br>Last Name: _____ Country: _____                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                     | <input type="radio"/> Left <input type="radio"/> Front<br><input type="radio"/> Center <input type="radio"/> Rear<br><input type="radio"/> Right <input type="radio"/> Single<br><input type="radio"/> Unknown <input type="radio"/> Unknown                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="radio"/> None<br><input type="radio"/> Minor<br><input type="radio"/> Serious<br><input type="radio"/> Fatal<br><input type="radio"/> Unknown                                                                     |                                                                                                                                                                   |
| <b>Pilot Certificate(s)</b> (Check all that apply)<br><input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military<br><input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign<br><input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer |  |                                                                                                                                                     | <b>Restraint Type:</b><br><b>Available</b> <b>Used</b><br><input type="radio"/> None <input type="radio"/> None<br><input type="radio"/> Lap Only <input type="radio"/> Lap Only<br><input type="radio"/> 3-point <input type="radio"/> 3-point<br><input type="radio"/> 4-point <input type="radio"/> 4-point<br><input type="radio"/> 5-point <input type="radio"/> 5-point<br><input type="radio"/> Unknown <input type="radio"/> Unknown |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Inflatable Restraints</b><br><input type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><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                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                |                                                                                                                                                                   |
| <b>Crew Name and Address</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                     | <b>Seat Occupied</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Injury</b>                                                                                                                                                                                                                  |                                                                                                                                                                   |
| First Name: _____ City of Residence: _____<br>Middle Initial: _____ State: _____ ZIP: _____<br>Last Name: _____ Country: _____                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                     | <input type="radio"/> Left <input type="radio"/> Front<br><input type="radio"/> Center <input type="radio"/> Rear<br><input type="radio"/> Right <input type="radio"/> Single<br><input type="radio"/> Unknown <input type="radio"/> Unknown                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="radio"/> None<br><input type="radio"/> Minor<br><input type="radio"/> Serious<br><input type="radio"/> Fatal<br><input type="radio"/> Unknown                                                                     |                                                                                                                                                                   |
| <b>Pilot Certificate(s)</b> (Check all that apply)<br><input type="checkbox"/> None <input type="checkbox"/> Flight Instructor <input type="checkbox"/> Commercial <input type="checkbox"/> US Military<br><input type="checkbox"/> Private <input type="checkbox"/> Recreational <input type="checkbox"/> Airline Transport <input type="checkbox"/> Foreign<br><input type="checkbox"/> Student <input type="checkbox"/> Sport <input type="checkbox"/> Flight Engineer |  |                                                                                                                                                     | <b>Restraint Type:</b><br><b>Available</b> <b>Used</b><br><input type="radio"/> None <input type="radio"/> None<br><input type="radio"/> Lap Only <input type="radio"/> Lap Only<br><input type="radio"/> 3-point <input type="radio"/> 3-point<br><input type="radio"/> 4-point <input type="radio"/> 4-point<br><input type="radio"/> 5-point <input type="radio"/> 5-point<br><input type="radio"/> Unknown <input type="radio"/> Unknown |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Inflatable Restraints</b><br><input type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><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)                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                |                                                                                                                                                                   |
| <b>Name and Address</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>Seat</b>                                                                                                                                         | <b>Injury</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Restraint Type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                | <b>Inflatable Restraints</b>                                                                                                                                      |
| First Name: <u>Alexander</u> City : <u>Munising</u><br>Middle Initial: <u>Y</u> State: <u>MI</u> ZIP: <u>49862</u><br>Last Name: <u>Ciupak</u> Country: <u>USA</u><br><br><input type="radio"/> Crew <input checked="" type="radio"/> Passenger <input type="radio"/> Other                                                                                                                                                                                               |  | <input type="radio"/> Left<br><input type="radio"/> Center<br><input checked="" type="radio"/> Right<br><input type="radio"/> Unknown<br>Row: _____ | <input checked="" type="radio"/> None<br><input type="radio"/> Minor<br><input type="radio"/> Serious<br><input type="radio"/> Fatal<br><input type="radio"/> Unknown                                                                                                                                                                                                                                                                        | <b>Available</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input checked="" type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown<br><br><b>Used</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input checked="" type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown | <input checked="" type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><input type="checkbox"/> Unknown                      | <input type="checkbox"/> Under 5 years<br>If Under 5,<br><input type="radio"/> Child Restraint<br><input type="radio"/> Lap-Held<br><input type="radio"/> Unknown |
| First Name: _____ City : _____<br>Middle Initial: _____ State: _____ ZIP: _____<br>Last Name: _____ Country: _____<br><br><input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other                                                                                                                                                                                                                                                          |  | <input type="radio"/> Left<br><input type="radio"/> Center<br><input type="radio"/> Right<br><input type="radio"/> Unknown<br>Row: _____            | <input type="radio"/> None<br><input type="radio"/> Minor<br><input type="radio"/> Serious<br><input type="radio"/> Fatal<br><input type="radio"/> Unknown                                                                                                                                                                                                                                                                                   | <b>Available</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown<br><br><b>Used</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown                       | <input type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><input type="checkbox"/> Unknown                                 | <input type="checkbox"/> Under 5 years<br>If Under 5,<br><input type="radio"/> Child Restraint<br><input type="radio"/> Lap-Held<br><input type="radio"/> Unknown |
| First Name: _____ City : _____<br>Middle Initial: _____ State: _____ ZIP: _____<br>Last Name: _____ Country: _____<br><br><input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other                                                                                                                                                                                                                                                          |  | <input type="radio"/> Left<br><input type="radio"/> Center<br><input type="radio"/> Right<br><input type="radio"/> Unknown<br>Row: _____            | <input type="radio"/> None<br><input type="radio"/> Minor<br><input type="radio"/> Serious<br><input type="radio"/> Fatal<br><input type="radio"/> Unknown                                                                                                                                                                                                                                                                                   | <b>Available</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown<br><br><b>Used</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown                       | <input type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><input type="checkbox"/> Unknown                                 | <input type="checkbox"/> Under 5 years<br>If Under 5,<br><input type="radio"/> Child Restraint<br><input type="radio"/> Lap-Held<br><input type="radio"/> Unknown |
| First Name: _____ City : _____<br>Middle Initial: _____ State: _____ ZIP: _____<br>Last Name: _____ Country: _____<br><br><input type="radio"/> Crew <input type="radio"/> Passenger <input type="radio"/> Other                                                                                                                                                                                                                                                          |  | <input type="radio"/> Left<br><input type="radio"/> Center<br><input type="radio"/> Right<br><input type="radio"/> Unknown<br>Row: _____            | <input type="radio"/> None<br><input type="radio"/> Minor<br><input type="radio"/> Serious<br><input type="radio"/> Fatal<br><input type="radio"/> Unknown                                                                                                                                                                                                                                                                                   | <b>Available</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown<br><br><b>Used</b><br><input type="radio"/> None<br><input type="radio"/> Lap Only<br><input type="radio"/> 3-point<br><input type="radio"/> 4-point<br><input type="radio"/> 5-point<br><input type="radio"/> Unknown                       | <input type="checkbox"/> Not Installed<br><input type="checkbox"/> Installed<br><input type="checkbox"/> Not Deployed<br><input type="checkbox"/> Deployed<br><input type="checkbox"/> Unknown                                 | <input type="checkbox"/> Under 5 years<br>If Under 5,<br><input type="radio"/> Child Restraint<br><input type="radio"/> Lap-Held<br><input type="radio"/> Unknown |

## FLIGHT ITINERARY INFORMATION

|                                                                                                                          |                                                                         |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Last Departure Point</b><br>Airport ID: <u>KOZW</u><br>City: <u>Howell</u><br>State: <u>MI</u><br>Country: <u>USA</u> | <b>Time of Departure</b><br>Time: <u>17:15</u><br>Time Zone: <u>EDT</u> | <b>Destination</b><br>Airport ID: <u>KSAW</u><br>City: <u>Sawyer</u><br>State: <u>MI</u><br>Country: <u>USA</u> | <b>Type Flight Plan Filed</b><br><input checked="" type="radio"/> None <input type="radio"/> VFR/IFR<br><input type="radio"/> Company VFR <input type="radio"/> IFR<br><input type="radio"/> Military VFR <input type="radio"/> Unknown<br><input type="radio"/> VFR<br><b>Activated?</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                             |                                      |                                      |                                                          |                                       |
|-------------------------------------------------------------|--------------------------------------|--------------------------------------|----------------------------------------------------------|---------------------------------------|
| <b>Type of ATC Clearance/Service</b> (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 type="checkbox"/> VFR                                | <input type="checkbox"/> IFR         | <input type="checkbox"/> VFR On Top  | <input type="checkbox"/> Traffic Advisory                | <input type="checkbox"/> Unknown / NA |

|                                                                             |                                          |                                                         |                                                   |                                                                |
|-----------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|
| <b>Airspace where the accident/incident occurred</b> (Check all that apply) |                                          |                                                         |                                                   | <b>Altitude of In-Flight Occurrence:</b><br><u>2400</u> ft msl |
| <input type="checkbox"/> Class A                                            | <input 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 checked="" type="checkbox"/> Class E                                 | <input type="checkbox"/> Restricted Area | <input type="checkbox"/> FAR 93                         |                                                   |                                                                |
|                                                                             |                                          |                                                         |                                                   |                                                                |

## WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

|                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source of Pilot Weather Information</b><br>(Check all that apply)                                                                                                                                                                                                                                          | <b>Weather Observation Facility</b>                                                                                                                                                      |
| <input type="checkbox"/> National Weather Service<br><input type="checkbox"/> Flight Service Station<br><input type="checkbox"/> TV/Radio<br><input checked="" type="checkbox"/> Automated Report<br><input type="checkbox"/> Commercial Weather Service (DUATS)<br><input type="checkbox"/> On-Board Weather | Facility ID: <u>KSAW</u><br>Observation Time: <u>20:10</u><br>Time Zone: <u>EDT</u><br>Distance from Accident Site: <u>15</u> nm<br>Direction from Accident Site: <u>90</u> degrees true |
| <input type="checkbox"/> Company<br><input type="checkbox"/> Military<br><input type="checkbox"/> Internet<br><input type="checkbox"/> None<br><input type="checkbox"/> Unknown                                                                                                                               |                                                                                                                                                                                          |

|                                                                                                                               |                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Basic Conditions</b><br><input checked="" type="radio"/> VMC<br><input type="radio"/> IMC<br><input type="radio"/> Unknown | <b>Light Condition</b><br><input type="radio"/> Dawn <input checked="" type="radio"/> Dusk <input type="radio"/> Dark Night <input type="radio"/> Unknown<br><input type="radio"/> Day <input type="radio"/> Night <input type="radio"/> Bright Night |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sky/Lowest Cloud Condition</b><br><input type="radio"/> Clear <input type="radio"/> Thin Broken<br><input checked="" type="radio"/> Few <input type="radio"/> Thin Overcast<br><input type="radio"/> Partial Obscuration <input type="radio"/> Unknown<br><input type="radio"/> Scattered | <b>Ceiling</b><br><input type="radio"/> None (Clear) <input type="radio"/> Obscured<br><input checked="" type="radio"/> Broken <input type="radio"/> Indefinite<br><input type="radio"/> Overcast <input type="radio"/> Unknown | <b>Temperature:</b> _____ (C) or <u>70</u> (F)<br><b>Dew Point:</b> _____ (C) or _____ (F)<br><b>Altimeter Setting:</b> _____ in. Hg<br>or _____ MB |
| <b>Lowest Cloud Condition Height</b><br><u>2800</u> ft agl                                                                                                                                                                                                                                   | <b>Ceiling Height</b><br><u>2800</u> ft agl                                                                                                                                                                                     |                                                                                                                                                     |

|                                                                                                          |                                                                                                                                  |                                                                                                  |                                                                                                               |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Wind Direction</b><br><input type="checkbox"/> Variable<br>-or-<br>Direction: <u>070</u> degrees true | <b>Wind Speed</b><br><input type="checkbox"/> Calm<br><input type="checkbox"/> Light and Variable<br>-or-<br>Speed: <u>5</u> kts | <b>Wind Gusts</b><br><input checked="" type="checkbox"/> Not Gusting<br>-or-<br>Speed: _____ kts | <b>Visibility</b> <u>6+</u> miles<br>RVR: _____ feet<br>RVV: _____ miles<br><b>Density Altitude:</b> _____ ft |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Intensity of Precipitation</b><br><input type="radio"/> Light<br><input type="radio"/> Moderate<br><input type="radio"/> Heavy<br><input checked="" type="radio"/> N/A<br><input type="radio"/> Unknown | <b>Type of Precipitation</b> (Check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Restriction to Visibility</b> (Check all that apply)                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                            | <input checked="" type="checkbox"/> None <input type="checkbox"/> Drizzle <input type="checkbox"/> Freezing Rain<br><input type="checkbox"/> Rain <input type="checkbox"/> Ice Pellets <input type="checkbox"/> Snow Shower<br><input type="checkbox"/> Snow <input type="checkbox"/> Snow Pellets <input type="checkbox"/> Ice Pellets Shower<br><input type="checkbox"/> Hail <input type="checkbox"/> Snow Grains <input type="checkbox"/> Freezing Drizzle<br><input type="checkbox"/> Rain Showers <input type="checkbox"/> Ice Crystals | <input checked="" type="checkbox"/> None <input type="checkbox"/> Fog<br><input type="checkbox"/> Blowing Dust <input type="checkbox"/> Ground Fog<br><input type="checkbox"/> Blowing Sand <input type="checkbox"/> Haze<br><input type="checkbox"/> Blowing Snow <input type="checkbox"/> Ice Fog<br><input type="checkbox"/> Blowing Spray <input type="checkbox"/> Smoke<br><input type="checkbox"/> Dust <input type="checkbox"/> Unknown |

| <b>Icing Forecast</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Icing Actual</b>                  | <b>Turbulence</b> |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |
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| <table border="0"> <tr> <th>Amount</th> <th>Type</th> </tr> <tr> <td><input checked="" type="radio"/> None</td> <td><input checked="" 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 checked="" type="radio"/> None | <input checked="" 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 |  | <table border="0"> <tr> <th>Amount</th> <th>Type</th> </tr> <tr> <td><input checked="" type="radio"/> None</td> <td><input checked="" 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 checked="" type="radio"/> None | <input checked="" 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 |  | <table border="0"> <tr> <th>Type</th> <th>Severity</th> </tr> <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> | Type | Severity | <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 |
| Amount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Type                                 |                   |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |
| <input checked="" type="radio"/> None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                   |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |
| Amount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Type                                 |                   |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |
| <input checked="" type="radio"/> None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                   |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Severity                             |                   |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |
| <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     |                   |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |      |                                       |                                      |                             |                            |                             |                             |                                |                             |                              |                               |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |                                          |                                |                                    |                                   |                                          |                                 |                                                |                                  |

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)*

Broken Right wing from contact within 1-2 feet of wingtip with utility pole.

**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.

See Attached

**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)

50 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**

Self serve Fuel. Pilot Checked fuel level, quality and oil level before 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

Opened right door, and exited

**OTHER AIRCRAFT – COLLISION (If air or ground collision occurred, complete this section for other aircraft)****Aircraft Registration Number**

\_\_\_\_\_

**Manufacturer:** \_\_\_\_\_**Model:** \_\_\_\_\_**Damage to Other Aircraft**☐ 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**

09/14/2019

*mm/dd/yyyy*

**Name of Pilot/Operator:** Brian Ciupak

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

-- or -- ☒ Check here to electronically sign this document

**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**

**NTSB Accident/Incident No.**

GAA19CA534

**Reviewed by NTSB Regional Office**

GAA

**Name of Investigator**

Eric M. Gutierrez

**Date Report Received**

9/14/2019

N2909U September 2, 2019

The flight planning for the return trip from KOZW to KSAW began @ 7 am with a check of the weather. TAFs from KSAW showed possible showers before noon and then good weather in the afternoon. Reports from Lansing had isolated showers between 3-5pm from a front line passing from northwest to southwest. Initial plan was for departure between 5-6pm after the showers had passed KOZW if the radar was clear to the north (as forecast).

Weather was monitored throughout the day. Forecast did not change significantly. Thermal generated cumulus clouds began around 11am and slowly transitioned to over-development by 2pm. Sprinkle began in the vicinity of KOZW around 3pm and by 3:30pm the skies seemed to be high overcast.

Arrival @ KOZW occurred @ 4:00pm. The pilot's computer at the terminal was used to check the weather. KSAW was reporting marginal VFR due to cloud ceiling and a line of shower was extending from just north of Lansing toward Pontiac. Our departure was going to be delayed. The crew and I walked to the hanger. A complete pre-flight was performed according to the POH flight manual as per the checklist I had written, except for fuel inspection which was intentionally delayed as a fueling was required. The club flight log was filled out showing 2.8 HOBBS hours on the flight from KSAW to KOZW, current HOBBS and Engine meters, and 6.25 quarts of oil in the engine with none added. 09U was started and everyone (including my mom) rode the plane to the fuel pumps. I pumped 100LL fuel into the right fuel tank and noted more than 1 hour of fuel was remaining from the previous flight from KSAW to KOZW. Then I filled the left tank and noted more than ½ an hour of fuel was remaining in this tank from the previous flight. Both fuel tanks were filled up to the vent holes in the neck of the tank. The sumps of both tanks along with the engine sump were checked for fuel quality, water content, and debris. The fuel was poured out to insure it evaporated and smelled like Avgas. The flight plan from KSAW – KOZW involved a 3-hour trip with a tank change @ +1 hour and +3 hours. As the fuel reserves met my personal limits of at least 30-minute reserves in both tanks the planned schedule for tank change for the return trip was not changed. 4:30pm 09U was pulled to a tie-down spot in front the terminal as a thunderstorm was in progress north of the field. Storm was moving eastward so return to the hanger was not warranted. Weather was checked again at the pilot's computer and radar showed the current cell north of the field and a smaller one to the northwest. METAR for KSAW showed, low winds, 6+ visibility and marginal VFR with 1200ft cloud ceiling. So a diversion to KESC was appended to the flight plan if the clouds did not disperse before our arrival. Winds @ KOZW were single digit out of the north-northwest. As we were now heading into the wind I added 15 minutes to our flight plan and made a note to check that estimate as we got closer to KSAW. The additional 15 minutes did not change the fuel plan as had full tanks and enough gas for 4 hours of safe flying @ 10 gallon per hour. (best power per POH). As we waited out the weather rain seemed imminent from the cell to the northwest. So 09U was tied to the tarmac. A brief shower passed overhead and by 5pm the skies were high overcast and the radar showed no activity north of the field.

At 5pm the decision to depart was made. I checked the sump on both tanks to insure no rainwater had entered the tanks during the rain shower. No water was found. One of the sumps seemed to dribble fuel after the sample was taken but a few seconds of observation seemed to indicate it had stopped and it was deemed insignificant. Engine was started @ 5:15 pm using my written checklist. Run-up was performed on the east end of the ramp facing into the north-northwest breeze. All checklist

items passed, mags, carb heat, vacuum, oil pressure, alternator amps. We taxied to runway 31 and performed ASHIFT GUMPS pre- takeoff check list.

- (A) Announce. Radio call 133.0 for Livingston country traffic N2909U taking off runway 31 Livingston county.
- (S) Speed. Take off speed was planned for 80 knots with a slight right cross.
- (H) Heat. Carb heat was off
- (I) Illuminate. Landing light was turned on.
- (F) Flaps. Flaps were checked to be full up for a normal take-off
- (T) Trim. Trim was adjusted to slightly more up as I had been experimenting with slightly more up trim to make my take-off as smooth as possible.
- (G) Gas. Verify Mixture full rich (it was). Fuel Pump On, Gas on fullest tank (both were full so I stayed on the right tank)
- (U) Under carriage. Still there
- (M) Mixture. Still full rich
- (P) Propeller. Fixed and spinning.
- (S) Safety. Seat belts were on, door was latched top and bottom.

At 5:15pm I checked with my crew. We were ready for take-off. Take off was good. We climbed out @ 80kn and when we reached 1000 AGL I called Great Lakes Approach on 126.4 and pick-up flight following. We were diverted west around Maple grove airport due to parachute activities. And reached our cruise altitude of 2500ft and leaned the mixture, turned off the landing light and fuel pump and set the trim (PIM-T checklist). Slightly after Fowlerville we were released to proceed on heading and set GPS to direct to KMOP. Air was turbulent on the southeast side of the clouds. Throttle was set the same as the first trip about 2400RPM about 115kn indicated to insure we would not exceed 125kn in the thermals. I started my AWHEAT in-flight check list every 15 or so as per my written checklist.

(A) Altitude. We had reported 2500 ft to Great Lakes Approach so had to maintain +/-100 ft

(W) Weather. Clouds were large (1-3 mile across) but light so rain was not likely but was monitored for changes

(H) Heading. Turbulence caused this to vary +/-20 degree so frequent corrections were needed

(E) Engine. Scan of the Engine Oil Temp, Oil Pressure, Fuel Pressure, Vacuum, Alternator Amps were verified

(A) Alternate Landing Fields. Easy during the first half of the trip, many fields to choose from. Began to be more of a change north of Clare due to fewer fields. A few places we crossed with no good alternates, but I did vary our heading +/- 20 degree to help bring fields closer. Crossing the straights of Mackinaw was a stretch about 2 miles in the center we would not have had any good options.

(T) Time. Check time. Verify time to next tank change. Verify Time to next waypoint.

Just south of Alma where we called to change frequencies. Got a traffic advisory shortly thereafter (never saw the guy) was told we were clear a few minutes later. Reached first waypoint

@ KMOP @ 6:12pm changed tanks to left tank, flew over the east end of the runway while looking for arriving traffic. I would normally have waited till exactly 6:15 to make the tank switch but we were in a calm patch of air so I made the switch. I the GPS for our second waypoint KPLN but set heading to 350 to divert to the west of restricted airspace west of Grayling. Around Clare Municipal airport we were release from flight following and changed frequencies to 122.8 and Grayling tower. Squawked 1200. I increased altitude to 2700ft and engaged autopilot. I wasn't going to be able to reach 4500ft due to the clouds in the area and per FAA VFR altitude I was odd thousands + 500 ft, so 2500ft was my only option and I choose to add 250 to provide additional vertical spacing from anyone heading 181-270. Checked Traverse city tower as we head north. Change to KPLN 133.0 as we approached. Just north of Boyne and west of Charlevoix I noticed some roughness in the engine. I feared carb icing so I put on carb heat and left it on for 5-10 minutes. There was no improvement I turned it off and attempted to re-lean the mixture, but much movement in the mixture lever resulted in RPM drop I figured that was as good as it got. I increased RPM to 2500 and it seemed to get better. Speed settled @ 120kn and air was much smoother so I wasn't afraid of over speeding trying to maintain altitude. I used the gauges to attempt to estimate the engine vibration. The artificial horizon was bouncing about 2 mm. The engine settings and timing were the same as the trip down. I had turbulence for about half the trip both ways and respond identically both times with the throttle and speed settings. I made a radio call on 133.0 @ KPLN as traffic was reporting taxing and take-off on runway 31 as we were about 5 miles off the end of the runway to the northwest. After KPLN our next waypoint was Gross Cap Isle in the Straights of Mackinaw. After passing just west of the island and reaching a safe gliding distance of about a 1 mile off shore we followed the coast westward and the GPS was set to KSAW. At Naubinway the GPS was re-set to direct to KSAW. We followed a heading of about 290. At 7:45 I performed AWHEAT checklist. Noted large open swamps as only alternate option, thought about changing tanks early but decided not to due to poor alternate landing spots. Next AWHEAT check I noted 7:55pm 60 miles out to KSAW 30 minutes to last waypoint, 8:25pm arrival. 20 minutes to tank change. Passed just south of Hanley Field. Monitored 122.9 just in case. Past field changed to KSAW frequencies and checked AWOS. Single digit winds out of the east, low ceiling. I could not see any clouds of concern, so decided to proceed. 15 miles out of KSAW hear RV traffic requesting clearance for take-off and flight "around Gwinn and maybe north to Marquette". I called KSAW to declare my position (and let the RV know). I turned on our landing lights and navigation lights to increase visibility in case the RV was operating east of the field. Shortly thereafter I noticed low clouds at about the same altitude and began a cruise decent. Turned off autopilot. I determine we were close enough to the airport to head for pattern altitude but looked several times for the obstruction towers I know are south and east of the field. At 5 miles out I began the ASHIFT GUMP Checklist. I do this checklist 3 times before landing. One to insure it complete. And two because some items need to be done multiple times (like flap setting or radio calls at un-towered fields).

(A) Announce. Complete we had made contact with KSAW @ 15 miles and got clearance for a 3-mile right base. Would repeat check list @ 3 miles

(S) Speed. We were still descending @ 200 FPM and about 125kn about 200 feet about pattern altitude

(H) Heat. Carb heat was applied for about 15 seconds. Appropriate drop in RPM but no roughness.

(I) Illuminate. Landing lights were already on from 15 miles out.

(F) Flaps. Flaps were up speed was too high. Would deploy @ 3-mile checklist

(T) Trim. Trim was kept at cruise setting as which is the setting I prefer to land with

(G) Gas. Mixture full rich. Fuel Pump On.

Immediately lost power. Engine RPM's fell to 1000-1200 and ran smooth until engine quit some time as we passed 10 feet over our emergency landing field.

I began emergency check.

Called KSAW and informed them of our problem. Second call to verify it was an emergency.

Began to troubleshoot. Suspected carb icing put on carb heat, no effect but left it on anyway.

Cycled the fuel pump as the fuel pressure light was on. I determined that the light was on due to the low RPM's as it always lit on the ramp when the engine was 1000 rpm or below.

I thought about cycling the mixture handle but discounted that as a bad idea.

I cycled the throttle and got a little bit more power around 1/3 throttle, but not enough to maintain flight (~200 RPM) so I put it back to full

I cycled the mags left right and back to both, no effect

At that time the stall alarm went off. I check our airspeed. It was 40kn. Where were about 50 feet over the trees heading west past the field. I decided to "Fly the plane". I pushed forward to regain airspeed, banked to the left, raised flaps and put in left rudder to "side slip" to the field. After leveling off and flying in ground effect over the field it became apparent I had too much airspeed for a safe touch-down. I pulled up and went over a tree row and power line at the east end of the field. After clearing the lines, I saw a miracle, a straight but narrow road lay to the east. We push forward to maintain airspeed, pulled back to clear a second set of power lines and then touched down on the road. Immediately after touch-down I heard brush and weeds striking the right wing. I attempted to steer to the left but the plane veered to the right and into the ditch. Final deacceleration was very mild as we had expended most of our speed. I called KSAW to inform them we were down and all aboard we safe and unharmed. After receiving the tower acknowledgement, I turned off the master power. I attempted to turn the fuel level to "OFF" but it was stuck. We unbuckled our seatbelts and evacuated the plane through the door normally.

September 12, 2019

Data from after the fact:

Mr. Eric M. Gutierrez from the NTSB has asked me to add the procedure used to lean the engine during flight. I find this odd as during the course of my flight training I have flown with 5 different CFI's (many were CFII's) at 4 different airports in 3 different states. They all taught the same procedure for leaning the engine for Best Power Cruise:

Attain cruise altitude, reduce throttle to 75% power. Lean mixture till the RPM's drop off slightly. Increase the mixture to max RPM which will be slightly richer than the RPM drop off.

For the flights from KSAW – KOZW on 8-30-19, and the 9-2-19 flight the mixture level position was approximately halfway between "Full rich" and "Cut-off" during the cruise portion of the flight. Throttle was about  $\frac{3}{4}$  open.

## **POH**

### Page 97 Engine Performance

20C, 2500 alt, 75% power = 2560 RPM for 10 GPH

### Page 100 Best Power Cruise Performance

20C, 2500 alt, 75% power = 118 Knots for 10 GPH.

### Page 135 Fuel System

48 Gallons usable. 24 Gallons useable per tank.

2.2 HOBBS hours @ 10 GPM = 22 gallons

## **Lycoming.com**

### Content/Leaning the Normally Aspirated Engines

For a given power setting, best economy mixture provides the most miles per gallon. Slowly lean the mixture until engine operation becomes rough or until engine power rapidly diminishes as noted by an undesirable decrease in airspeed. When either condition occurs, enrich the mixture sufficiently to obtain an evenly firing engine or to regain most of the lost airspeed or engine RPM. Some engine power and airspeed must be sacrificed to gain a best economy mixture setting. *NOTE: When leaned, engine roughness is caused by misfiring due to a lean fuel/air mixture which will not support combustion. Roughness is eliminated by enriching slightly until the engine is smooth.*