

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

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

CRASH INFORMATION

Accident/Incident Location

Nearest City/Place: Liberty State: NC
 ZIP: 27298 Country: USA
 Latitude: _____ (dd:mm:ss N/S) Longitude: _____ (ddd:mm:ss E/W)

Date/Time

Date: 12-27-2014 Local Time: 7:30 pm
mm/dd/yyyy
 Time Zone: 0030

Phase of Operation

☐ Standing ☐ Takeoff (incl. initial climb) ☐ Cruise ☐ Hover
☐ Taxi ☐ Climb ☐ Maneuvering ☐ Other
☐ Descent ☒ Landing ☐ Approach ☐ Unknown

Collision with Other Aircraft

☐ Midair
☐ On-ground
☒ None

Altitude of In-Flight Occurrence

_____ ft MSL

AIRCRAFT INFORMATION

Manufacturer: Cessna

Model: 310N

Serial Number: 310N0121

Registration Number: N177JD Amateur-built: ☐ Yes ☒ No

Max Gross Weight: 5,200 lbs

Weight at Time of Accident/Incident: 4,027 lbs

Location of Center of Gravity at Time of Accident/Incident:

40.7 inches from ☐ nose or ☒ datum
 -or- _____ Percent Mean Aerodynamic Cord (% MAC)

Category of Aircraft

☒ Airplane
☐ Balloon
☐ Blimp/Drigible
☐ Glider
☐ Gyrocraft
☐ Helicopter
☐ Powered lift
☐ Ultralight
☐ Unknown

Type of Airworthiness Certificate (Check all that apply)

Standard

☒ Normal
☐ Utility
☐ Acrobatic
☐ Transport

Special

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

Number of Seats: 5

If Large Aircraft, how many seats for:

Flight Crew: _____

Cabin Crew: _____

Passengers: _____

Landing Gear ☒ Retractable

Check any additional landing gear configuration that applies:

☒ Tricycle ☐ Tailwheel
☐ Amphibian ☐ High Skid
☐ Emergency Float ☐ Skid
☐ Float ☐ Ski
☐ Hull ☐ Ski/Wheel
☐ Unknown

Type of Maintenance Program

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

Last Inspection Type

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

Date Last Inspection: 05-15-2014

mm/dd/yyyy

Airframe Total Time: 4,430 hrs

hours measured at (check one)

☐ Last Inspection ☐ Time of Accident/Incident

IFR Equipped

☒ Yes ☐ No ☐ Unknown

Stall Warning System Installed

☒ Yes ☐ No ☐ Unknown

Type of Fire Extinguishing System

☒ None

☐ Specify _____

ELT Installed

☒ Yes ☐ No

ELT Activated

☐ Yes ☒ No

ELT Manufacturer: _____

Model/Series: _____

Serial Number: _____

Battery Type: _____

Battery Exp. Date: _____

Engine Type

☒ Reciprocating ☐ Turbo Jet
☐ Turbo Shaft ☐ Turbo Fan
☐ Turbo Prop ☐ Unknown

Reciprocating Fuel System Type

☐ Carburetor
☒ Fuel Injected

Propeller

☐ Fixed Pitch
☒ Controllable Pitch

Manufacturer: McCauley

Model: D2AF34C81-0/S-84JF-3

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. <u>mm/dd/yyyy</u>	Engine Rated Power Measured as (check one) ☐ Horsepower or ☐ lbs of Thrust	Total Time (hours)	Time Since Inspection (hours)	Time Since Overhaul (hours)
Eng. 1	Continental	IO-470-VO	148258-B-V					11.34
Eng. 2	Continental	IO-470-VO	148249-B-V					60
Eng. 3								
Eng. 4								

Registered Aircraft Owner Name: <u>James R Bullock, Jr.</u> Fractional Ownership Aircraft: ☐ Yes ☒ No		Owner Address City: <u>Greensboro</u> State: <u>NC</u> ZIP: <u>27409</u> Country: _____	
Operator of Aircraft ☐ Same As Registered Owner Name: <u>George E. Joyce</u> Doing Business As: _____ Air Carrier/Operator Designator (4 Character Code): _____		Operator Address ☐ Same As Registered Owner City: <u>Franklinville</u> State: <u>NC</u> ZIP: <u>27248</u> Country: <u>USA</u>	
Regulation Flight Conducted Under ☒ FAR 91 ☐ FAR 129 ☐ FAR 91 Special Flight ☐ Public Use (select type) ☐ FAR 103 ☐ FAR 133 ☐ Non-US, Commercial ☐ Federal ☐ State ☐ Local ☐ FAR 121 ☐ FAR 135 ☐ Non-US, Non-commercial ☐ Unknown ☐ FAR 125 ☐ FAR 137 ☐ Armed Forces		Revenue Sightseeing Flight ☐ Yes ☒ No Air Medical Flight ☐ Yes ☒ No	
Purpose of Flight for FAR 91, 103, 133, 137 (Select one) ☒ Personal ☐ Business ☐ Executive/Corporate ☐ Other Work Use ☐ Instructional ☐ Ferry ☐ Positioning ☐ Aerial Application ☐ Aerial Observation ☐ Air Drop ☐ Air Race / Show ☐ Flight Test ☐ Public Use ☐ Unknown		Revenue Operation for FAR 121, 125, 129, 135 (Select one) ☐ Scheduled or Commuter ☐ Non-Scheduled or Air Taxi Domestic or International ☐ Domestic ☐ International Cargo Operation ☐ Passenger/Cargo ☐ Passenger _____ How many? ☐ Cargo _____ lbs ☐ Mail	
Type of Commercial Operating Certificate Held (Check all that apply) ☐ None ☐ Flag Carrier Operating Certificate (121) ☐ Supplemental ☐ Air Cargo ☐ Foreign Air Carriers (129) ☐ Commuter Air Carrier (135) ☐ On-Demand Air Taxi (135) ☐ Large Helicopter (127) ☐ Rotorcraft External Load (133) ☐ - or - ☐ Agricultural Aircraft (137) ☐ Other Operator of Large Aircraft			
OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft)			
Aircraft Registration Number <u>none</u>		Manufacturer: _____ Model: _____	
Registered Owner of Other Aircraft First Name: _____ Middle Initial: _____ Last Name: _____		Damage to Other Aircraft ☐ Destroyed ☐ Minor ☐ Substantial ☐ None	
City: _____ State: _____ ZIP: _____ Country: _____		Pilot of Other Aircraft First Name: _____ Middle Initial: _____ Last Name: _____	
City: _____ State: _____ ZIP: _____ Country: _____		MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)	
Was there Mechanical Malfunction/Failure? ☐ Yes ☒ No ☐ Unknown (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	
DAMAGE TO AIRCRAFT AND OTHER PROPERTY			
Aircraft Damage ☐ None ☒ Substantial ☐ Minor ☐ Destroyed		Aircraft Fire ☐ None ☐ Both Ground and In-Flight ☐ In-Flight ☐ Unknown Origin ☐ On-Ground	
Aircraft Explosion ☐ None ☐ Both Ground and In-Flight ☐ In-Flight ☐ Unknown Origin ☐ On-Ground			

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

Left landing gear failed after hard landing, and prop strick and no other property damage.

AIRPORT INFORMATION (If the accident/incident occurred on approach, takeoff or within 5 miles of an airport, complete this section)Airport Identifier: 2A5Distance From Airport Center: 0 SMAirport Name: Causey airport

Direction From Airport: _____ degrees MAG

Proximity to Airport ☐ Off Airport/Airstrip ☐ On Airport ☐ On Airstrip

Airport Elevation: _____ ft. MSL

Approach Segment (Select one)
☐ On Instrument Approach ☒ Landing ☐ Base leg ☐ Final ☐ Go Around
☐ Crosswind ☐ Downwind ☐ Low Approach ☐ Aborted Landing (after touchdown)
IFR Approach (Check all that apply)
☐ None ☐ PAR ☐ MLS ☐ Practice
☐ ADF/NDB ☐ Sidestep ☐ LDA ☐ GPS
☐ SDF ☐ ILS ☐ ASR ☐ Loran ☐ Unknown
☐ VOR/TVOR ☐ Localizer Only ☐ Visual ☐ Unknown
☒ VOR/DME ☐ LOC-back course ☐ Contact
☐ TACAN ☐ RNAV ☐ Circling
VFR Approach (Check all that apply)
☐ None ☐ Stop and Go
☐ Traffic Pattern ☐ Touch and Go
☐ Straight-In ☐ Simulated Forced Landing
☐ Valley/Terrain Following ☐ Forced Landing
☐ Go Around ☐ Precautionary Landing
☐ Full Stop ☐ Unknown
Runway InformationRunway ID: 02 (L/R/C) Length: 3,800 ft Width: 75 ft**Runway/Landing Surface** (Check all that apply)
☒ Asphalt ☐ Grass/Turf ☐ Macadam ☐ Water
☐ Concrete ☐ Gravel ☐ Metal/Wood ☐ Unknown
☐ Dirt ☐ Ice ☐ Snow
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 ☐ Unknown
☐ Slush Covered ☐ Vegetation
FLIGHT ITINERARY INFORMATION**Last Departure Point**Airport ID: F45City: West Palm BeachState: FLCountry: USA**Time of Departure**Time: 1400Time Zone: 1900**Destination**Airport ID: 2A5City: LibertyState: NCCountry: USA**Type Flight Plan Filed**
☐ None ☐ VFR/IFR
☐ Company VFR ☐ IFR
☐ Military VFR ☐ Unknown
☒ VFR
 Activated? ☐ Yes ☐ No
Type of ATC Clearance/Service (Check all that apply)
☐ None ☐ Special VFR ☐ Special IFR ☐ VFR Flight Following ☐ Cruise
☐ VFR ☒ IFR ☐ VFR On Top ☐ Traffic Advisory ☐ Unknown / NA
Airspace where the accident/incident occurred (Check all that apply)
☐ Class A ☐ Class E ☐ Prohibited Area ☐ Jet Training Area ☐ Special
☐ Class B ☒ Class G ☐ Restricted Area ☐ TRSA ☐ Air Traffic Control Area
☐ Class C ☐ Demo Area ☐ Military Operations Area (MOA) ☐ FAR 93 ☐ Unknown
☐ Class D ☐ Warning Area ☐ Airport Advisory Area
Aircraft Load Description (Check all that apply)
☐ None ☐ Towing Glider ☐ Parachutists ☐ Livestock
☒ Passengers ☐ Towing Banner ☐ Water ☐ Unknown
☐ Cargo ☐ Other External ☐ Chemical/Fertilizer/Seeds
FUEL & SERVICES INFORMATION**Fuel on Board at Last Takeoff**

(convert from pounds, as necessary)

45 Gallons**Fuel Type**
☐ 80/87 ☐ 115/145 ☐ JP3 ☐ Other, specify _____
☒ 100 Low Lead ☐ Jet A ☐ JP4
☐ 100/130 ☐ Automotive ☐ JP5
Other Services, if Any, Prior to Departure

none

EVALUATION OF INCIDENT			
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 			
WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE			
Weather Observation Facility Facility ID: <u>BUY</u> Observation Time: <u>1925</u> Time Zone: <u>0025</u> Distance from Accident Site: _____ 7 NM Direction from Accident Site: <u>050</u> degrees MAG		Source of Weather Information <i>(Check all that apply)</i> ☐ National Weather Service ☐ Flight Service Station ☐ TV/Radio ☒ Automated Report ☐ Commercial Weather Service (DUATS) ☐ Company ☐ Military ☐ Internet ☐ Unknown	
Briefing Type/Completeness ☒ Full ☐ Partial / Limited By Pilot ☐ Partial / Limited By Briefing ☐ Abbreviated ☐ Unknown ☐ Not Pertinent		Light Condition ☐ Dawn ☐ Day ☐ Dusk ☒ Night ☐ Dark Night ☐ Bright Night ☒ Not Reported	
Method of Briefing <i>(Check all that apply)</i> ☐ In Person ☐ Teletype ☒ Telephone/Computer ☐ Aircraft Radio ☐ TV/Radio ☐ Unknown		Visibility 10 miles	
Sky/Lowest Cloud Condition ☒ Clear ☐ Few ☐ Partial Obscuration ☐ Scattered ☐ Thin Broken ☐ Thin Overcast ☐ Unknown		Ceiling ☐ None (clear) ☐ Broken ☐ Overcast ☐ Obscured ☐ Indefinite ☐ Unknown	
Restriction to Visibility <i>(Check all that apply)</i> ☒ None ☐ Blowing Dust ☐ Blowing Sand ☐ Blowing Snow ☐ Blowing Spray ☐ Dust ☐ Fog ☐ Ground Fog ☐ Haze ☐ Ice Fog ☐ Smoke ☐ Unknown		Lowest Cloud Condition Height _____ ft AGL	
Ceiling Height _____ ft AGL		Wind Direction ☐ Indicated: _____ degrees MAG ☒ Variable	
Wind Speed Velocity: _____ KTS -or- ☐ Calm ☒ Light and Variable		Wind Gusts Velocity: _____ KTS ☐ Gusting ☒ Not Gusting	
Type of Turbulence <i>(Check all that apply)</i> ☒ None ☐ Clear Air ☐ In Clouds ☐ Vicinity of Thunderstorm		Severity of Turbulence ☐ Extreme ☐ Severe ☐ Moderate ☐ Moderate Chop ☐ Light	
NOTAMs (D, L and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident 			
Temperature: _____ (C) or _____ (F) Altimeter Setting: _____ in. HG or _____ MB Density Altitude: _____ ft Dew Point: _____ (C) or _____ (F)		Icing Forecast Amount ☒ None ☐ Trace ☐ Light ☐ Moderate ☐ Severe Type ☐ Rime ☐ Clear ☐ Mixed	
Icing Actual Amount ☒ None ☐ Trace ☐ Light ☐ Moderate ☐ Severe Type ☐ Rime ☐ Clear ☐ Mixed		Type of Precipitation <i>(Check all that apply)</i> ☒ None ☐ Rain ☐ Snow ☐ Hail ☐ Rain Showers ☐ Freezing Rain ☐ Snow Shower ☐ Drizzle ☐ Ice Pellets ☐ Snow Pellets ☐ Snow Grains ☐ Ice Crystals ☐ Ice Pellets Shower ☐ Freezing Drizzle	
Intensity of Precipitation ☐ Light ☐ Moderate ☐ Heavy			

Pilot "A" Responsibilities at the Time of Accident/Incident											
☒ Pilot ☐ Co-Pilot ☐ Student Pilot ☐ Flight Instructor ☐ Check Pilot ☐ Flight Engineer ☐ Other Flight Crew											
Pilot "A" Identification											
First Name: <u>George</u>					City: <u>Franklinville</u>						
Middle Initial: <u>E</u>					State: <u>NC</u>			ZIP: <u>27248</u>			
Last Name: <u>Joyce</u>					Country: <u>USA</u>						
Age at time of Accident/Incident: _____				Date of Birth: _____		Certificate Number: _____					
				<i>mm/dd/yyyy</i>							
Degree of Injury			Seat Occupied			Seat Belt			Shoulder Harness		
☒ None ☐ Fatal ☐ Minor ☐ Unknown ☐ Serious			☒ Left ☒ Front ☐ Unknown ☐ Right ☐ Rear ☐ Center ☐ Single			Used ☒ Yes ☐ No Available ☐ Yes ☐ No			Used ☐ Yes ☒ No Available ☐ Yes ☐ No		
Pilot Certificate(s) (Check all that apply)											
☐ None ☐ Student ☐ Recreational ☐ Commercial ☐ Flight Engineer ☐ Foreign ☐ Private ☒ Flight Instructor ☐ Sport ☒ Airline Transport ☐ U.S. Military											
Principal Occupation		Medical Certificate			Medical Certificate Validity			Date of Last Medical			
☒ Pilot ☐ Other ☐ Unknown		☐ None ☐ Class 3 ☐ Class 1 ☐ Driver's License (Sport Pilot only) ☒ Class 2 ☐ Unknown			☐ Without limitations/waivers ☒ With limitations/waivers ☐ Unknown			<u>05-30-2014</u> <i>mm/dd/yyyy</i>			
Medical Certificate Limitations											
must wear corrective lenses											
Medical Certificate Waivers											
none											
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:				Flight Review Aircraft							
<u>01-10-2014</u>				Make: <u>Cessna</u>							
<i>mm/dd/yyyy</i>				Model: <u>ce-500</u>							
Airplane Rating(s) (Check all that apply)		Other Aircraft Rating(s) (Check all that apply)		Instrument Rating(s) (Check all that apply)		Instructor Rating(s) (Check all that apply)					
☐ None ☐ Single-Engine Land ☒ Single-Engine Sea ☒ Multiengine Land ☐ Multiengine Sea		☐ None ☐ Airship ☐ Free Balloon ☐ Glider ☐ Gyroplane ☐ Helicopter ☐ Powered Lift		☐ None ☒ Airplane ☐ Helicopter ☐ Powered Lift		☐ None ☒ Airplane Single-Engine ☒ Airplane Multi-Engine ☐ Gyroplane ☐ Powered Lift ☒ Instrument Airplane ☐ Instrument Helicopter ☐ Helicopter ☐ Glider ☐ Sport					
Type Ratings						Student Endorsements (Include dates)					
BE-300, BE1900, BE 400, CE500											
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		25,000	1,500	5,000	20,000	2,910	3,090	100			
Pilot in Command (PIC)		23,800	1,480	4,550	18,800	2,900	3,090	100			
Time as Instructor		3,000	10	2,500	500	200	200	100			
This Make/Model						20	150	6			
Last 90 Days		102	10	12	90	9	10	0			
Last 30 Days		31	4	5	31	6	4	0			
Last 24 Hours		5	4	0	5	2	0	0			

Pilot "B" Responsibilities at the Time of Accident/Incident																																																																																																				
☐ Pilot ☐ Co-Pilot ☐ Student Pilot ☐ Flight Instructor ☐ Check Pilot ☐ Flight Engineer ☐ Other Flight Crew																																																																																																				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Flight Time (enter appropriate number of hours in each box)</th> <th rowspan="2">All Aircraft</th> <th rowspan="2">This Make & Model</th> <th rowspan="2">Airplane Single Engine</th> <th rowspan="2">Airplane Multiengine</th> <th rowspan="2">Night</th> <th colspan="2">Instrument</th> <th rowspan="2">Rotorcraft</th> <th rowspan="2">Glider</th> <th rowspan="2">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> <tr> <td>Total Time</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pilot in Command (PIC)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Time as Instructor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>This Make/Model</td> <td colspan="10"></td> </tr> <tr> <td>Last 90 Days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 30 Days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 24 Hours</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>											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										
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9

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

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

Left landing gear folded after hard landing

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

Operator/Owner Safety Recommendation

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**

01-18-2015

mm/dd/yyyy

Signature and Name of Pilot/Operator

Signature: _____

Type or Print Name: George E. Joyce**Signature and Name of Person Filing Report if Other than Pilot/Operator**

Signature: _____

Type or Print Name: _____

Title: _____

FOR NTSB USE ONLYNTSB Accident/Incident No.
ERA15CA086Reviewed by NTSB Regional Office
Ashburn, VAName of Investigator
RaynerDate Report Received
1/22/2015