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

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

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

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

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

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

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

A. APPLICABILITY

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

An aircraft accident, as defined in 49 CFR 830.2, is determined as an occurrence that involves a fatality or serious injury, or substantial damage to the aircraft. For occurrences that do not involve a fatality, the determination that the occurrence is an accident can be appealed by writing to the Director, Office of Aviation Safety, NTSB, 490 L'Enfant Plaza, S.W., Washington, D.C. 20594.

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

B. DEFINITIONS

1. "Aircraft Accident" means an occurrence associated with the operation of an aircraft that takes place between the time any person boards the aircraft with the intention of flight and all such persons have disembarked, and in which any person suffers death, or serious injury, or in which the aircraft receives substantial damage. For purposes of this form, the definition of "aircraft accident" includes "unmanned aircraft accident," as defined at 49 CFR 830.2.

2. "Substantial Damage" means damage or failure that adversely affects the structural strength, performance or flight characteristics of the aircraft, and that would normally require major repair or replacement of the affected component. NOTE: Engine failure or damage limited to an engine if only one engine fails or is damaged, bent fairing or cowling, dented skin, small puncture holes in the skin or fabric, ground damage to rotor or propeller blades, and damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wing tips are not considered "substantial damage" for purposes of this report.

3. "Operator" means any person who causes or authorizes the operation of an aircraft, such as the owner, lessee, or bailee of an aircraft.

4. "Fatal Injury" means any injury that results in death within thirty (30) days of the accident.

5. "Serious Injury" means any injury that (1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; (2) results in a fracture of any bone (except simple fracture of fingers, toes, or nose); (3) causes severe hemorrhages, nerve, muscle, or tendon damage; (4) involves injury to any internal organ; or (5) involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

INSTRUCTIONS TO PILOTS/OPERATORS FOR COMPLETING THIS FORM

It is necessary that ALL questions on this report be answered completely and accurately.

If more space is needed, continue on a blank sheet of paper.

Nearest City/Place: Use the name of the nearest community in the state where the accident/incident occurred.

Date/Time: Indicate the date and local time of the event. Be sure to indicate the time zone.

Phase of Operation: Indicate the phase of operation during which the accident/incident occurred.

Aircraft Information: Enter aircraft make and model information as indicated on the aircraft registration certificate, including series. If the involved aircraft is certified as "amateur-built," include the name of the producer of the kit or plans, unless an NTSB employee instructs otherwise.

Maximum Gross Weight: Enter the certificated maximum gross weight for the aircraft involved in the occurrence. This should be the same as the maximum gross weight indicated on the aircraft weight and balance documents.

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

Type of Fire Extinguishing System: If a fire extinguishing system was used to fight an aircraft fire, specify the type(s) of extinguishing system(s) used. Examples include handheld extinguisher, engine fire bottle, cargo/baggage compartment fire suppression system, or airport emergency ground equipment.

Owner/Operator Information: Enter the owner information as shown on the registration certificate. Commercial operators, enter the operator information, including "doing business as" when applicable, as shown on the operator certificate.

Revenue Sightseeing Flight: Indicate whether the accident aircraft was conducting **revenue** sightseeing operations under 14 CFR Part 91 at the time of the accident.

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

Public Aircraft: Federal, state or local government flight operations such as official travel, law-enforcement, low-level observation, aerial application, firefighting, search and rescue, biological or geological resource management, or aeronautical research. Indicate whether the flight was conducted by the armed forces, federal, state, or local government.

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

AERIAL APPLICATION--Operations using an aircraft to perform aerial application or dispersion of any substance. Examples include agricultural, health, forestry, cloud seeding, firefighting, insect control, etc.

AERIAL OBSERVATION--These flights include aerial mapping/ photography, patrol, search and rescue, hunting, highway traffic advisory, ranching, surveillance, oil and mineral exploration, criminal pursuit, fish spotting, etc.

AIR DROP--Aerial operations, other than aerial application, that are intended to release items in flight.

AIR RACE/SHOW--Includes any flight operations conducted as part of an organized air race or public demonstration.

BUSINESS--includes all personal flying without a paid professional crew for reasons associated with furthering a business, including transportation to and from business meetings or work. This does not include corporate/executive operations, air taxi, or commuter operations.

EXECUTIVE/CORPORATE--Company flying with a paid, professional crew.

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

FLIGHT TEST--Flight for the purpose of investigating the flight characteristics of an aircraft/aircraft component or evaluating an applicant for a pilot certificate or rating.

INSTRUCTIONAL--Flying while under the supervision of a flight instructor or receiving air carrier training. Personal proficiency flight operations and personal flight reviews, as required by federal air regulations, are excluded.

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

PERSONAL--Flying for personal reasons (excludes business transportation) including pleasure or personal transportation. This also includes practice or proficiency flights performed under flight instructor supervision and not part of an approved flight training program.

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

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

Other Aircraft--Collision: For all accidents involving a collision with another aircraft, including parked aircraft, check "Collision with other aircraft" under Basic Information and complete this section indicating details about the OTHER aircraft involved in the collision.

Airport Information: Complete this section if the accident/incident occurred on approach, landing, takeoff, departure, or within 3 statute miles of an airport. Please refer to the FAA Airport/Facility Directory or other official source for airport information.

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

Runway: Indicate the number of the runway used, including L, R, or C if applicable.

Runway/Landing Surface: Indicate the type of intended runway/landing surface (do not indicate surface conditions). If the surface type was mixed, check all that apply.

Condition of Runway/Landing Surface: Indicate the condition of the intended runway/landing surface. If multiple conditions existed at the time of the accident, check all that apply.

Weather Information at the Accident/Incident Site: Indicate the weather conditions reported at the accident/incident site at the time of occurrence. If no weather reporting was available for the accident/incident site, indicate the reported conditions at the nearest reporting site. Specify the weather reporting site identifier, the observation time, and distance from the accident/ incident.

Sky/Lowest Cloud Condition: Indicate the height above ground level of the lowest cloud condition present at the time of the accident/incident and whether coverage was reported as few, scattered, broken or overcast. Also indicate the height above ground level and coverage of the lowest cloud ceiling present at the time of the accident/incident (reported as broken or overcast).

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

Flight Crewmember Information: Indicate the category that best describes the capacity served by this flight crewmember at the time of the accident. The designators "Flight Crewmember 1" and "Flight Crewmember 2" do not refer to a specific pilot position or responsibility. If more than one pilot is aboard, they may be entered in any order and their capacity entered as appropriate.

Degree of Injury: See Definitions on the top half of Page 1 of the instructions. Minor injury is not defined. If an injury does not meet the criteria for another injury category, select Minor.

Date of Last Flight Review or Equivalent: Enter the date of the most recent flight review, or equivalent, completed by this pilot. Refer to 14 CFR 61.56 for accepted equivalents.

Type Ratings: List all type ratings on the pilot certificate. If the pilot holds no type ratings indicate "none." If the pilot holds a pilot certificate other than student and was flying an aircraft requiring an endorsement, enter the type and date of any logbook endorsement(s) for that aircraft. See 14 CFR 61 for examples of required endorsements.

Student Endorsements: If the pilot holds a student pilot certificate, enter all solo endorsements and dates on the student pilot certificate.

Flight Time: Complete the flight time matrix. Solo flight time should be included as "Pilot-in-Command (PIC)" and all dual flight instruction given should be included as "Time as Instructor."

Additional Flight Crewmembers: Complete this section if there were more than two required flight crewmembers on the aircraft. This also includes a check airman performing official duties but does not include cabin crew. State the capacity served by each included crewmember at the time of the accident.

Passenger(s)/Other Personnel: Enter identification and injury severity information for all passengers, cabin crew, and other personnel involved in the accident. See Page 1 of the instructions for the official definition of injury levels.

Several questions throughout the form allow for multiple responses; when appropriate, choose all responses that apply.

These instructions only pertain to major issue areas covered by NTSB Form 6120.1 *Pilot/Operator Aircraft Accident/Incident Report.* For additional definitions of questions and responses, please refer to www.ntsb.gov.

NATIONAL TRANSPORTATION SAFETY BOARD
PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT
This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: Ryan Field (KRYN) State: AZ
ZIP: 85757 Country: USA
Latitude: 32 08' 25" N Longitude: 111 10' 21" W
(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time

Date: 10/07/2017 *mm/dd/yyyy* Local Time: ~10:30 AM
Time Zone: AZ

Collision with Other Aircraft: ◉ Midair ○ On-ground ○ None

AIRCRAFT INFORMATION

Registration Number: N966EZ
Manufacturer: Self
Model: LongEZ
Serial Number: 966
Year of Manufacture: 1986
Amateur-Built: ◉ Yes ○ No *If Yes:* ◉ Kit/Plans ○ Original Design Make: Rutan

☐ **IFR-Equipped and Certified**
☐ **Commercial Space Flight**
☐ **Unmanned Aircraft**

Maximum Gross Weight: 1425 lbs
Weight at Time of Accident/Incident: 1232 lbs
Number of Seats: 2 Flight Crew Seats: 0
Cabin Crew Seats: 0 Passenger Seats: 1
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	Special
☑ Normal	☐ Restricted
☐ Aerobatic	☐ Limited
☐ Balloon	☐ Provisional
☐ Commuter	☐ Special Flight
☐ Transport	☑ Experimental
☐ Utility	☐ 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. *mm/dd/yyyy*	Rated Power ◉ Horsepower or ○ lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Time Since: Overhaul (hours)
Eng. 1	Lycoming	O-320 / E2G	L-48010-27A	04/17/1978	150	3026	25	1348
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type
○ 100-Hour ○ Continuous Airworthiness
○ AAIP ◉ Conditional Inspection
○ Annual ○ Unknown

Date Last Inspection: 06/15/2017 *mm/dd/yyyy*
Airframe Total Time: 1093 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:

Propeller 1 ◉ Fixed Pitch ○ Controllable Pitch ○ Ground Adjustable
Manufacturer: Hertzler
Model: Silver Bullet

Propeller 2 ○ Fixed Pitch ○ Controllable Pitch ○ Ground Adjustable
Manufacturer:
Model:

ELT Installed: ◉ Yes ○ No
If Yes:
ELT Manufacturer: Pointer
Model or Part No.: 3000
TSO No.: ◉ C91 (121.5 MHz) ○ C91a (121.5 MHz) ○ C126 (406 MHz)
Was ELT still mounted in aircraft? ◉ Yes ○ No
Was ELT still connected to antenna? ◉ Yes ○ No
Did ELT Activate? ○ Yes ◉ No
If activated:
Did ELT Aid in Locating Aircraft: ○ Yes ◉ No
If not activated:
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: Marcus P. Borom

Fractional Ownership Aircraft: ○ Yes ◉ No

City: Tucson

State: AZ ZIP: 85757

Country: USA

Operator of Aircraft ☑ *Same As Registered Owner*

Name:

Doing Business As:

Air Carrier/Operator Designator (4 Character Code):

☑ *Same Address as Registered Owner*

City:

State: ZIP:

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: Ryan Field
Airport Identifier: KRYN
Proximity to Airport: ◉ Off Airport/Airstrip ○ On Airport/Airstrip ○ N/A

Distance From Airport Center: 1 sm
Direction From Airport: 150 at heading of 024 degrees true
Airport Elevation: 2400 ft. msl

Runway Information

Runway ID: 06L (L/R/C) Length: 4900 ft Width: 75 ft

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

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

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

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

Approach/Departure Segment *(Select one)*

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

IFR Approach *(Check all that apply)*

☐ None

☐ ADF/NDB ☐ PAR ☐ MLS ☐ Practice
☐ SDF ☐ Sidestep ☐ LDA ☐ GPS
☐ VOR/TVOR ☐ ILS ☐ ASR
☐ VOR/DME ☐ Localizer Only ☐ Visual
☐ TACAN ☐ LOC-back course ☐ Contact
☐ RNAV ☐ Circling
☐ Unknown

VFR Approach *(Check all that apply)*

☐ None

☑ Traffic Pattern ☐ Stop and Go
☐ Straight-In ☐ Touch and Go
☐ Valley/Terrain Following ☐ Simulated Forced Landing
☐ Go Around ☐ Forced Landing
☑ Full Stop ☐ Precautionary Landing
☐ Unknown

"FLIGHT CREWMEMBER 1" INFORMATION

"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident

(●) Pilot ( ) Co-Pilot ( ) Student Pilot ( ) Flight Instructor ( ) Check Pilot ( ) Flight Engineer ( ) Other Flight Crew

"Flight Crewmember 1" was pilot flying [☑] Yes [ ] No

"Flight Crewmember 1" Identification

First Name: Marcus
Middle Initial: P
Last Name: Borom
City of Residence: Tucson
State: AZ ZIP: 85757
Country: USA
Age at time of Accident/Incident: 83 Date of Birth: [redacted] *mm/dd/yyyy*
Certificate Number: [redacted]

Degree of Injury
(●) None ( ) Fatal ( ) Minor ( ) Unknown ( ) Serious

Seat Occupied
( ) Left (●) Front ( ) Unknown ( ) Right ( ) Rear ( ) Center ( ) Single

Restraint Type

Available	Used
( ) None	( ) None
( ) Lap only	( ) Lap only
( ) 3-point	( ) 3-point
(●) 4-point	(●) 4-point
( ) 5-point	( ) 5-point
( ) Unknown	( ) 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
08/03/2017 *mm/dd/yyyy*

Medical Certificate Limitations
Must wear corrective lenses

Medical Certificate Special Issuance

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: 05/24/2017 *mm/dd/yyyy*

Flight Review Aircraft
Make: Cessna
Model: 152

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 [ ] Airplane Single-Engine [ ] Airplane Multi-Engine [ ] Gyroplane [ ] Powered Lift [ ] Instrument Airplane [ ] Instrument Helicopter [ ] Helicopter [ ] Glider [ ] 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: Actual	Instrument: Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	1,247	1,093	1,247	0	27	1	15	0	0	0
Pilot in Command (PIC)	1,219	1,093	1,219	0	27	1	15	0	0	0
Time as Instructor	0	0	0	0	0	0	0	0	0	0
This Make/Model					13	0	0			
Last 90 Days	17	17	17	0	0	0	0	0	0	0
Last 30 Days	6	6	6	0	0	0	0	0	0	0
Last 24 Hours	0	0	0	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	Used
○ None	○ None
○ Lap only	○ Lap only
○ 3-point	○ 3-point
○ 4-point	○ 4-point
○ 5-point	○ 5-point
○ Unknown	○ 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
☐ Airplane Single-Engine
☐ Airplane Multi-Engine
☐ Gyroplane
☐ Powered Lift
☐ Instrument Airplane
☐ Instrument Helicopter
☐ Helicopter
☐ Glider
☐ 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)

Crew Name and Address	Seat Occupied	Injury
First Name: ____ City of Residence: ____ Middle Initial: ____ State: ____ ZIP: ____ Last Name: ____ Country: ____	○ Left ○ Center ○ Right ○ Front ○ Rear ○ Single ○ Unknown	○ None ○ Minor ○ Serious ○ Fatal ○ Unknown
Pilot Certificate(s) *(Check all that apply)* ☐ None ☐ Private ☐ Student ☐ Flight Instructor ☐ Recreational ☐ Sport ☐ Commercial ☐ Airline Transport ☐ Flight Engineer ☐ US Military ☐ Foreign	**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
Type Rating/Endorsement for Accident/Incident Aircraft? ☐ Yes ☐ No **Total Flight Time at the Time of this Accident/Incident:** ____ hrs		

Crew Name and Address	Seat Occupied	Injury
First Name: ____ City of Residence: ____ Middle Initial: ____ State: ____ ZIP: ____ Last Name: ____ Country: ____	○ Left ○ Center ○ Right ○ Front ○ Rear ○ Single ○ Unknown	○ None ○ Minor ○ Serious ○ Fatal ○ Unknown
Pilot Certificate(s) *(Check all that apply)* ☐ None ☐ Private ☐ Student ☐ Flight Instructor ☐ Recreational ☐ Sport ☐ Commercial ☐ Airline Transport ☐ Flight Engineer ☐ US Military ☐ Foreign	**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
Type Rating/Endorsement for Accident/Incident Aircraft? ☐ Yes ☐ No **Total Flight Time at the Time of this Accident/Incident:** ____ hrs		

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

Name and Address	Seat	Injury	Restraint Type	Inflatable Restraints	Age
First Name: ____ City: ____ Middle Initial: ____ State: ____ ZIP: ____ Last Name: ____ Country: ____ ○ Crew ○ Passenger ○ Other	○ Left ○ Center ○ Right ○ Unknown Row: ____	○ None ○ Minor ○ Serious ○ Fatal ○ Unknown	**Available**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown **Used**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years *If Under 5,* ○ Child Restraint ○ Lap-Held ○ Unknown
First Name: ____ City: ____ Middle Initial: ____ State: ____ ZIP: ____ Last Name: ____ Country: ____ ○ Crew ○ Passenger ○ Other	○ Left ○ Center ○ Right ○ Unknown Row: ____	○ None ○ Minor ○ Serious ○ Fatal ○ Unknown	**Available**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown **Used**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years *If Under 5,* ○ Child Restraint ○ Lap-Held ○ Unknown
First Name: ____ City: ____ Middle Initial: ____ State: ____ ZIP: ____ Last Name: ____ Country: ____ ○ Crew ○ Passenger ○ Other	○ Left ○ Center ○ Right ○ Unknown Row: ____	○ None ○ Minor ○ Serious ○ Fatal ○ Unknown	**Available**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown **Used**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years *If Under 5,* ○ Child Restraint ○ Lap-Held ○ Unknown
First Name: ____ City: ____ Middle Initial: ____ State: ____ ZIP: ____ Last Name: ____ Country: ____ ○ Crew ○ Passenger ○ Other	○ Left ○ Center ○ Right ○ Unknown Row: ____	○ None ○ Minor ○ Serious ○ Fatal ○ Unknown	**Available**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown **Used**: ○ None ○ Lap Only ○ 3-point ○ 4-point ○ 5-point ○ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years *If Under 5,* ○ Child Restraint ○ Lap-Held ○ Unknown

FLIGHT ITINERARY INFORMATION

Last Departure Point
Airport ID: P13
City: Globe
State: AZ
Country: USA

Time of Departure
Time: 10:00AM
Time Zone: AZ

Destination
Airport ID: KRYN
City: Tucson
State: AZ
Country: USA

Type Flight Plan Filed
(●) None ( ) VFR/IFR
( ) Company VFR ( ) IFR
( ) Military VFR ( ) Unknown
( ) VFR
Activated? ( ) Yes ( ) No ( ) Unknown

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 G ☐ Military Operations Area (MOA) ☐ Special
☐ Class B ☐ Demo Area ☐ Airport Advisory Area ☐ Air Traffic Control Area
☐ Class C ☐ Warning Area ☐ Jet Training Area ☐ Unknown
☑ Class D ☐ Prohibited Area ☐ TRSA
☐ Class E ☐ Restricted Area ☐ FAR 93

Altitude of In-Flight Occurrence: 3200 ft msl

WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Source of Pilot Weather Information *(Check all that apply)*
☐ National Weather Service ☐ Company
☐ Flight Service Station ☐ Military
☐ TV/Radio ☐ Internet
☑ Automated Report ☐ None
☐ Commercial Weather Service (DUATS) ☐ Unknown
☑ On-Board Weather

Weather Observation Facility
Facility ID: ATIS
Observation Time: 10:30 AM
Time Zone: AZ
Distance from Accident Site: 15 nm
Direction from Accident Site: 019 degrees true

Basic Conditions
(●) VMC
( ) IMC
( ) Unknown

Light Condition
( ) Dawn ( ) Dusk ( ) Dark Night ( ) Unknown
(●) Day ( ) Night ( ) Bright Night

Sky/Lowest Cloud Condition
(●) Clear ( ) Thin Broken
( ) Few ( ) Thin Overcast
( ) Partial Obscuration ( ) Unknown
( ) Scattered

Lowest Cloud Condition Height
_____ ft agl

Ceiling
(●) None (Clear) ( ) Obscured
( ) Broken ( ) Indefinite
( ) Overcast ( ) Unknown

Ceiling Height
_____ ft agl

Temperature: _____ (C) or ? (F)
Dew Point: _____ (C) or ? (F)
Altimeter Setting: ? in. Hg
or _____ MB

Wind Direction
☐ Variable
-or-
Direction: 060 degrees true

Wind Speed
☐ Calm
☐ Light and Variable
-or-
Speed: 6 kts

Wind Gusts
☑ Not Gusting
-or-
Speed: _____ kts

Visibility 10 miles
RVR: _____ feet
RVV: _____ miles
Density Altitude: _____ ft

Intensity of Precipitation
( ) Light
( ) Moderate
( ) Heavy
( ) N/A
( ) Unknown

Type of Precipitation *(Check all that apply)*
☑ None ☐ Drizzle ☐ Freezing Rain
☐ Rain ☐ Ice Pellets ☐ Snow Shower
☐ Snow ☐ Snow Pellets ☐ Ice Pellets Shower
☐ Hail ☐ Snow Grains ☐ Freezing Drizzle
☐ Rain Showers ☐ Ice Crystals

Restriction to Visibility *(Check all that apply)*
☑ None ☐ Fog
☐ Blowing Dust ☐ Ground Fog
☐ Blowing Sand ☐ Haze
☐ Blowing Snow ☐ Ice Fog
☐ Blowing Spray ☐ Smoke
☐ Dust ☐ Unknown

Icing Forecast

Amount	Type
(●) None	( ) N/A
( ) Trace	( ) Rime
( ) Light	( ) Clear
( ) Moderate	( ) Mixed
( ) Severe	( ) Unknown
( ) Unknown	

Icing Actual

Amount	Type
(●) None	( ) N/A
( ) Trace	( ) Rime
( ) Light	( ) Clear
( ) Moderate	( ) Mixed
( ) Severe	( ) Unknown
( ) Unknown	

Turbulence

Type *(Check all that apply)*	Severity
☑ None	☐ Light
☐ Clear Air	☐ Moderate
☐ Terrain-Induced	☐ Severe
☐ Convective Turbulence	☐ Extreme

NOTAMs (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:
None

DAMAGE TO AIRCRAFT AND OTHER PROPERTY

Aircraft Damage		Aircraft Fire		Aircraft Explosion	
○ None	◉ Substantial	◉ None	○ Both Ground and In-Flight	◉ None	○ Both Ground and In-Flight
○ Minor	○ Destroyed	○ In-Flight	○ Fire at Unknown Time	○ In-Flight	○ Explosion at Unknown Time
	○ Unknown	○ On-Ground	○ Unknown	○ On-Ground	○ Unknown

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

Left winglet destroyed when left main gear of Piper aircraft impacted plane. Left communication antenna destroyed. Left rudder extracted and rudder cable damaged

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

Flight details for N966EZ the morning of Saturday, Oct. 7, 2017
Provided to Dale Adams of the Scottsdale FAA
Copy to Officer Mariah Anderson of TAA
Monday, Oct 9, 2017

This is my recollection of the events of morning of Saturday, Oct. 7, 2017.
After finishing a fly-in breakfast at the San Carlos Casino (no alcohol involved) the group of breakfast fliers returned to the ramp to prepare for the return flight home. Mine was the only plane returning to Ryan Field (KRYN). Most of the other aircraft had already departed toward Falcon Field when I called my wife at 9:42AM and notified her that I was preparing for takeoff.
Several minutes later I radioed my intention to San Carlos Apache traffic on frequency 122.80 to take off on runway zero niner and initiated my takeoff roll. I climbed out at 1500 to 2000 ft/min and notified San Carlos Apache traffic of my intention to depart to the south. I established a heading of two-zero-zero and climbed to an appropriate VFR altitude of 6500 ft. With the GPS driven autopilot set for "direct-to" KRYN on a heading of two zero zero, I continued smoothly along my route at a true airspeed of 160 kts.
I monitored traffic on my iPad using ADSB-in from my Stratux. About 16 miles north of Ryan Field I tuned in to ATIS and listened to the field conditions. I then switched my radio to the tower frequency. I ordinarily request a direct-in to Runway 15, but there were several planes in the pattern for active runways six right and six left with some aircraft waiting for takeoff clearance. In addition, the winds had been reported by ATIS to be zero six zero at six, so I chose not to make my usual request for runway one five.
I ceased monitoring my ADSB-in. When I am in contact with the tower and preparing to enter controlled air space, the ADSB-in becomes an unnecessary distraction. I contacted Ryan Tower as Novermber-Niner-Six-Six-Echo-Zulu, experimental LongEZ above Wasson Peak with information __?__ (I don't remember the designation that was active at the time), inbound for landing. Full stop. I learned later that the controller handling my traffic was named "Dee". I was advised to report on entering a 45 for a left downwind for runway six-left. I acknowledged the ATC call. I descended to pattern altitude and called in on entering the 45 as requested. "Dee" then requested that I make a left three-sixty prior to entering a left downwind to allow improved traffic spacing. I acknowledged the request, and began my left three-sixty, which gave me an opportunity to slow down my low-drag, high speed aircraft.
I notified the tower of having completed my three sixty. Tower confirmed my entry to downwind and told me to follow the Cessna on left base for six-left. I slowed my speed to below 120 kts and deployed my nose gear. I was scanning the sky for traffic on left base. When the numbers for six- left were at about my 11 o'clock, I spotted two planes on final one on six-right and one on six-left. I called the tower and advised that I had planes landing on six-right and on six-left in sight and asked, if I was to follow the plane on final on six-left.
Evidently there were multiple calls and part of my call had been "stepped on". "Dee" asked what aircraft was requesting to land on six right. I replied that the mention of six right had come from me and that I had not seen a plane on left base and wanted to confirm that the plane on final to six-left was the plane I was to follow. I received the call from the tower - Six-Six-Echo-Zulu, cleared to land on six-left. Number two following the Cessna on final.
I was comfortable that I had all the pattern traffic in sight. Then it happened.
Passing rapidly directly above me from my three o'clock was a Piper. The Piper stuck my aircraft. The noise was intense. I was not sure where the impact had occurred, but the engine was still purring and the aircraft was still flying. The pilot of the Piper announced and emergency and was advised by the tower to land on any runway. I did not know the extent of the damage to my plane nor the control authority I had remaining, since I was still flying straight and level on downwind. I also declared an emergency, and received advice to land on any runway. I announced that there were two planes with the advisory to land on any runway. The Piper pilot, who was already on base, announced that he was landing on runway six-left. I announced that I would land on six-right.
I began to turn left base for six-right with the Piper certainly no longer a factor, and experienced some difficulty in control. In hindsight, I recognize that the difficulty in control came from the loss of my left rudder and the drag induced by the shattered upper portion of the left winglet. In spite of that, I was able to set up and control an approach to six-right.

(Continued on page 11)

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

Operator/Owner Safety Recommendation

Pilot of LongEZ relied solely on the clearance to land provided by the tower and scanning for other aircraft was directed toward the base leg ahead and for aircraft on final. The pilot was not scanning to his right and did not see the Piper approaching. Scanning could have been full field.

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)

15 Gallons

Fuel Type

○ 80/87	○ 115/145	○ Jet B	○ Other, specify _____
◉ 100 Low Lead	○ Jet A	○ JP8	
○ 100/130	○ Jet A-1	○ Automotive	

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFT

Was an emergency evacuation of the aircraft performed? ☐ Yes ☑ No

Method of Exit – Describe how the occupants exited and how many occupants evacuated each location

Plane landed safely. Exit from aircraft was normal.

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

Aircraft Registration Number

?

Manufacturer: Piper

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.

Continuation of narrative from page 9 .

Everything was fine until I touched down at 90 kts. With an unexpectedly light left rudder/brake pedal pressure in the absence of the left rudder and its tension spring, I evidently applied too much left brake pedal and the plane jerked left and began to enter a ground loop. Releasing pressure on the left brake pedal and applying the right brake corrected the situation. I regained ground control of the plane and was able to keep the aircraft on the runway, and enter a taxiway. I was advised by the tower to contact ground. I did so, and notified ground that I was OK and that the plane was capable of taxiing. I asked, if I should taxi back to my hangar, with the answer being, yes. The rest of the morning was taken up in talking to the tower in a conference call with FAA officials from my hangar via cell phone, talking in my hangar with a Ryan Field ground official and with Police Officer Mariah Anderson ([redacted] of the Tucson Airport Authority. Officer Anderson told me that the pilot of the Piper had told her that he had been cleared to land. I later made a personal visit to the Tower and talked with the controllers and met "Dee". "Dee" told me that the Piper was not even in the picture, and had not been cleared to land until he had declared an emergency after the collision.
Both aircraft survived with repairable damage and with no injuries to any of the three occupants (a pilot in each plane and one passenger in the Piper). The parts for the Piper are commercially available. The parts for the LongEZ have to be reconstructed by hand from plans. Reconstruction of both the upper and lower winglet and the rudder will probably be required since the reconstruction of the rudder is required to be an integral part of the construction of the upper winglet .
The collision: The Piper struck the left winglet of the LongEZ with its left main about 18 inches below the tip of the winglet and destroyed the structure down to more than 24 inches below the tip with compression tearing of the fiberglass at lower leading edge. The collision also extracted the rudder. That means that the nose gear of the Piper passed over the LongEZ canopy with only 16 inches to spare.

Other scenarios I will use the altitude of the LongEZ as being constant only as a reference for the separation distance, recognizing that the altitude of both planes could be variable and affect the separation distance.
A near miss - or incident?: Had the separation been 24 inches higher, there would have been no contact between the aircraft.
A worse-case scenario: Had the separation been 28 inches lower, the pilot of the LongEZ would have been killed by blunt-force trauma from the nose wheel of the Piper when it smashed through the canopy. The left main of the Piper would have smashed the LongEZ's cowling and hit the engine. An engine strike would have been less benign and it is possible that both the Piper and the LongEZ would have been thrown into an uncontrollable dive, possibly also resulting in the death of both occupants of the Piper.
The worst case: Had the Piper been 7 feet lower, there would have been a T-bone impact that surely would have killed all on impact and possibly caused a fire and an explosion.

Fortunately the more benign collision is the one that occurred. A bad day, but a survivable one.

Marcus P. Borom, PhD
more than 1000 hours of Canard flying

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

Date of this Report	Name of Pilot/Operator: Marcus P. Borom [redacted]
10/1802017 *mm/dd/yyyy*	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.	Reviewed by NTSB Regional Office	Name of Investigator	Date Report Received
WPR18LA003	WPR-AS	Albert Nixon	10/18/2018