

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: PT INCESTON State: CA

ZIP: 95900 Country: USA

Latitude: 39.38353 Longitude: -122.0331

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

Accident/Incident Date/Time

Date: 05/04/2015 Local Time: 8:30 am

mm/dd/yyyy

Time Zone: PST

Collision with Other Aircraft: Midair On-ground None

AIRCRAFT INFORMATION

Registration Number: N48452

Manufacturer: GRUMMAN

Model: G164B

Serial Number: 24-B

Year of Manufacture: 1990

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

IFR-Equipped and Certified
Commercial Space Flight
Unmanned Aircraft

Maximum Gross Weight: 5431 lbs

Weight at Time of Accident/Incident: 3680 lbs

Number of Seats: 1 Flight Crew Seats: 1

Cabin Crew Seats: 0 Passenger Seats: 0

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

Amphibian

Emergency Float

Float

Hull

Other Launch/Recovery System

None

☒ Tailwheel

High Skid

Skid

Ski

Ski/Wheel

Unknown

Engine Type (Select one)

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

Liquid Rocket
Solid Rocket
Hybrid Rocket
None
Unknown

Fuel System Type (Reciprocating)

☒ Carburetor

Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Serial	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Rated Power Horsepower or lbs of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	<u>Pratt & Whitney</u>	<u>A-340-AM-1</u>	<u>P-326914</u>	<u>12/05/1990</u>	<u>600HP</u>	<u>11,291</u>	<u>66</u>	<u>1,140</u>
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type

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

Date Last Inspection: 01/02/2015

mm/dd/yyyy

Airframe Total Time: 16,060 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: Hamilton Standard

Model: 22040

ELT Installed: Yes ☐ No ☒

If Yes:

ELT Manufacturer:

Model or Part No.:

TSO No.: C91 (121.5 MHz) C91a (121.5 MHz)
C126 (406 MHz)

Was ELT still mounted in aircraft? Yes ☐ No ☐

Was ELT still connected to antenna? Yes ☐ No ☐

Did ELT Activate? Yes ☐ No ☐

If activated:

Did ELT Aid in Locating Aircraft: Yes ☐ No ☐

If not activated:

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

Propeller 2

Fixed Pitch
Controllable Pitch
Ground Adjustable

Manufacturer:

Model:

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: VALLEY AIR SERVICE LTD.City: ColusaState: CA ZIP: 95952Fractional Ownership Aircraft: Yes ☐ No ☒Country: USA**Operator of Aircraft**Same As Registered OwnerSame 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	<u>FAR 137</u>	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)

<u>Aerial Application</u>	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 FlightYes ☐ 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	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	
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																																																																																																			
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"Flight Crewmember 1" was pilot flying ☒ Yes ☐ No																																																																																																			
"Flight Crewmember 1" Identification First Name: <u>Buddy</u> Middle Initial: <u>G</u> Last Name: <u>UMETESS</u> City of Residence: <u>MCTIDIAN</u> State: <u>CA</u> ZIP: <u>90040</u> Country: <u>USA</u> Age at time of Accident/Incident: <u>71</u> Date of Birth: [REDACTED] mm/dd/yyyy Certificate Number: [REDACTED]																																																																																																			
Degree of Injury ☒ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown		Seat Occupied ☐ Left ☒ Right ☐ Center ☐ Front ☐ Rear ☐ Single ☐ Unknown		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																																																																																												
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Principal Occupation ☒ Pilot ☐ Other ☐ Unknown		Medical Certificate ☐ None ☒ Class 1 ☒ Class 2 ☐ Class 3 ☐ Driver's License (Sport Pilot only) ☐ Unknown			Medical Certificate Limitations Holder shall pass glasses for near/intermediate vision			Medical Certificate Special Issuance																																																																																											
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: <u>04/30/2014</u> mm/dd/yyyy				Flight Review Aircraft Make: <u>Cessna</u> Model: <u>C-150</u>																																																																																															
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 ☐ Glider ☐ Sport																																																																																													
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"Flight Crewmember 2" was pilot flying ☐ Yes ☐ No																																																																																																				
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ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information)								
Crew Name and Address First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____				Seat Occupied ☐ Left ☐ Front ☐ Center ☐ Rear ☐ Right ☐ Single ☐ Unknown		Injury ☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown		
Pilot Certificate(s) (Check all that apply) ☐ None ☐ Flight Instructor ☐ Private ☐ Recreational ☐ Student ☐ Sport ☐ Commercial ☐ US Military ☐ Airline Transport ☐ Foreign ☐ Flight Engineer				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 First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____				Seat Occupied ☐ Left ☐ Front ☐ Center ☐ Rear ☐ Right ☐ Single ☐ Unknown		Injury ☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown		
Pilot Certificate(s) (Check all that apply) ☐ None ☐ Flight Instructor ☐ Private ☐ Recreational ☐ Student ☐ Sport ☐ Commercial ☐ US Military ☐ Airline Transport ☐ Foreign ☐ Flight Engineer				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 First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____ ☐ Crew ☐ Passenger ☐ Other		Seat ☐ Left ☐ Center ☐ Right ☐ Unknown Row: _____	Injury ☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown	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	Age ☐ 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: _____ City: _____ State: _____ Country: _____		Time of Departure Time: _____ Time Zone: _____		Destination Airport ID: _____ City: _____ State: _____ Country: _____	
Type Flight Plan Filed None Company VFR Military VFR VFR VFR/IFR IFR Unknown Activated? Yes No Unknown					
Type of ATC Clearance/Service (Check all that apply) None VFR Special VFR IFR Special IFR VFR On Top VFR Flight Following Traffic Advisory Cruise Unknown / NA					
Airspace where the accident/incident occurred (Check all that apply) Class A Class B Class C Class D Class E Class G Demo Area Warning Area Prohibited Area Restricted Area Military Operations Area (MOA) Airport Advisory Area Jet Training Area TRSA FAR 93 Special Air Traffic Control Area Unknown				Altitude of In-Flight Occurrence: _____ ft msl	
WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE					
Source of Pilot Weather Information (Check all that apply) ☒ National Weather Service ☐ Flight Service Station ☐ TV/Radio ☐ Automated Report ☐ Commercial Weather Service (DUATS) ☐ On-Board Weather Company Military Internet None Unknown			Weather Observation Facility Facility ID: <u>W18134P230</u> Observation Time: <u>8:00 AM</u> Time Zone: <u>PDT</u> Distance from Accident Site: <u>15</u> nm Direction from Accident Site: <u>180</u> degrees true		
Basic Conditions VMC IMC Unknown		Light Condition ☒ Dawn ☒ Day Dusk Night Dark Night Bright Night Unknown			
Sky/Lowest Cloud Condition ☒ Clear Few Partial Obscuration Scattered Thin Broken Thin Overcast Unknown		Ceiling ☒ None (Clear) ☐ Broken ☐ Overcast Obscured Indefinite Unknown		Temperature: _____ (C) or <u>20</u> (F) Dew Point: _____ (C) or _____ (F) Altimeter Setting: _____ in. Hg or _____ MB	
Lowest Cloud Condition Height _____ ft agl		Ceiling Height _____ ft agl			
Wind Direction ☒ Variable -or- Direction: _____ degrees true	Wind Speed ☒ Calm ☐ Light and Variable -or- Speed: _____ kts	Wind Gusts ☒ Not Gusting -or- Speed: _____ kts	Visibility <u>10 SM</u> miles RVR: _____ feet RVV: _____ miles Density Altitude: <u>40</u> ft		
Intensity of Precipitation Light Moderate Heavy N/A Unknown		Type of Precipitation (Check all that apply) ☒ None ☒ Rain ☐ Snow ☐ Hail ☐ Rain Showers ☐ Drizzle ☐ Ice Pellets ☐ Snow Pellets ☐ Snow Grains ☐ Ice Crystals ☐ Freezing Rain ☐ Snow Shower ☐ Ice Pellets Shower ☐ Freezing Drizzle		Restriction to Visibility (Check all that apply) ☒ None ☐ Blowing Dust ☐ Blowing Sand ☐ Blowing Snow ☐ Blowing Spray ☐ Dust ☐ Fog ☐ Ground Fog ☐ Haze ☐ Ice Fog ☐ Smoke ☐ Unknown	
Icing Forecast Amount None Trace Light Moderate Severe Unknown Type N/A Rime Clear Mixed Unknown		Icing Actual Amount None Trace Light Moderate Severe Unknown Type N/A Rime Clear Mixed Unknown		Turbulence Type (Check all that apply) ☒ None ☐ Clear Air ☐ Terrain-Induced ☐ Convective Turbulence Severity Light Moderate Severe 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 Minor ☒ Substantial ☐ Destroyed ☐ Unknown	Aircraft Fire ☒ None ☐ In-Flight ☐ On-Ground Both Ground and In-Flight Fire at Unknown Time Unknown	Aircraft Explosion ☒ None ☐ In-Flight ☐ On-Ground Both Ground and In-Flight Explosion at Unknown Time Unknown			
Description of Damage to Aircraft and Other Property <i>(Use additional sheet if necessary)</i> Right upper and lower wings twisted and bent Both H STENTS damaged. Both Ailerons on the right side damaged. Center section damaged. Vertical fin and rudder damaged					
NARRATIVE HISTORY OF FLIGHT <i>(Please type or print in ink)</i> 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. While I was spraying a Rice Field, The engine quit and I had to put the airplane down in a flooded Rice field. The engine quit because The Number 2 cylinder head cracked and allowed burning gases to enter the induction system. The airplane flipped over on its back upon landing.					

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.)

The cylinder head cracked and lifted under the cylinder pins on the left side. The crack continued across the top and inside of the head to the intake valve seat, allowing the hot gases to enter the induction system and cause the engine to backfire and lose power.

Total Time/Cycles
On Part

? Hours
? Cycles

Time Since This Part
Inspected/Overhauled

66 Hours

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff
(Convert from pounds, as necessary)

60 Gallons

Fuel Type

80/87

100 Low Lead

100/130

115/145

Jet A

Jet A-1

Jet B

JP8

Automotive

Other, specify _____

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFT

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

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

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

Aircraft Registration Number

Manufacturer: _____

Model: _____

Damage to Other Aircraft

Destroyed
Substantial

Minor
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

08/14/15
mm/dd/yyyy

Name of Pilot/Operator:

Bud LMFESS

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.

WPR15LA 230

Reviewed by NTSB Regional Office

WPR/Federal Way, WPA.

Name of Investigator

Tom Lathie

Date Report Received

9.1.15