

		NTSB ID: MIA93LA189		Aircraft Registration Number: N71714	
		Occurrence Date: 09/06/1993		Most Critical Injury: None	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place DELRAY BEACH		State FL	Zip Code 33444	Local Time 1300	Time Zone EDT
Airport Proximity: Off Airport/Airstrip		Distance From Landing Facility:			
Aircraft Information Summary					
Aircraft Manufacturer Ferrie		Model/Series FERRI EXEC /FERRI EXEC		Type of Aircraft Helicopter	
Revenue Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On September 6, 1993, at about 1300 eastern daylight time, a Ferrie Exec, Rotoway Kit, experimental helicopter, N71714, registered to Dean R. Ferrie, operating as a 14 CFR Part 91 personal flight, crashed while demonstrating an autorotation with power recovery. The helicopter sustained substantial damage. The private pilot and one passenger were not injured. Visual meteorological conditions prevailed and no flight plan was filed. The flight originated from a grass field adjacent to a private business in the vicinity of Delray Beach, Florida, about 19 minutes before the accident.</p> <p>The pilot stated to the NTSB investigator-in-charge that he had not flown the helicopter for about 3 months. He departed on a VFR flight at about 1200 hours and completed three takeoffs, three landings, and three autorotations before he returned to pick up a passenger for a local area flight. At about 1300, he was demonstrating an autorotation with power recovery to the passenger. He entered the maneuver at about 500 feet agl and assumed a 60 knot-attitude. A deceleration was initiated at about 35 to 40 feet agl. Initial collective pitch was applied at about 5 feet agl and the helicopter was leveled with cyclic. The pilot stated the rotor rpm was low so he lowered the collective pitch and the helicopter started spinning to the left. Right antitorque pedal was applied and the helicopter continued to spin to the left through 360 degrees. The pilot lowered the collective pitch and the helicopter collided with the terrain and rolled over on its left side. The pilot stated no attempt was made by the pilot to stop the rotation by increasing collective pitch prior to the helicopter colliding with the terrain.</p>					
FACTUAL REPORT - AVIATION					
					Page 1

 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: MIA93LA189			
		Occurrence Date: 09/06/1993			
		Occurrence Type: Accident			
Landing Facility/Approach Information					
Airport Name	Airport ID:	Airport Elevation 0 Ft. MSL	Runway Used 0	Runway Length	Runway Width 0
Runway Surface Type:					
Runway Surface Condition:					
Approach/Arrival Flown: NONE					
VFR Approach/Landing: Simulated Forced Landing					
Aircraft Information					
Aircraft Manufacturer Ferrie		Model/Series FERRI EXEC /FERRI EXEC		Serial Number 90-06-101E	
Airworthiness Certificate(s): Experimental (Special)					
Landing Gear Type: Skid					
Amateur Built Acft? Yes	Number of Seats: 2	Certified Max Gross Wt. 1425 LBS	Number of Engines: 1		
Engine Type: Reciprocating	Engine Manufacturer: ROTORWAY	Model/Series: 152RW	Rated Power: 152 HP		
- Aircraft Inspection Information					
Type of Last Inspection Continuous Airworthiness	Date of Last Inspection 03/1993	Time Since Last Inspection 13 Hours	Airframe Total Time 139 Hours		
- Emergency Locator Transmitter (ELT) Information					
ELT Installed?/Type No	ELT Operated?	ELT Aided in Locating Accident Site?			
Owner/Operator Information					
Registered Aircraft Owner FERRIE, DEAN R.		Street Address 530 LINNET COURT			
		City DELRAY BEACH	State FL	Zip Code 33444	
Operator of Aircraft FERRIE, DEAN R.		Street Address 530 LINNET COURT			
		City DELRAY BEACH	State FL	Zip Code 33444	
Operator Does Business As:			Operator Designator Code:		
- Type of U.S. Certificate(s) Held: None					
Air Carrier Operating Certificate(s):					
Operating Certificate:			Operator Certificate:		
Regulation Flight Conducted Under: Part 91: General Aviation					
Type of Flight Operation Conducted: Personal					

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: MIA93LA189
	Occurrence Date: 09/06/1993
	Occurrence Type: Accident

First Pilot Information

Name On File	City On File	State On File	Date of Birth On File	Age 38
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Sex: M	Seat Occupied: Left	Occupational Pilot? Business	Certificate Number: On File
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Certificate(s): Private

Airplane Rating(s): None

Rotorcraft/Glider/LTA: Helicopter

Instrument Rating(s): None

Instructor Rating(s): None

Current Biennial Flight Review?

Medical Cert.: Class 3	Medical Cert. Status: Valid Medical--w/ waivers/lim.	Date of Last Medical Exam: 04/1992
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- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time										
Pilot In Command(PIC)										
Instructor										
Instruction Received										
Last 90 Days										
Last 30 Days										
Last 24 Hours										

Seatbelt Used? Yes	Shoulder Harness Used? Yes	Toxicology Performed?	Second Pilot?
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Flight Plan/Itinerary

Type of Flight Plan Filed: None

Departure Point Same as Accident/Incident Location	State	Airport Identifier	Departure Time 1241	Time Zone EDT
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Destination Local Flight	State	Airport Identifier	
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Type of Clearance: None

Type of Airspace: Class G

Weather Information

Source of Wx Information:

No record of briefing

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Weather Information					
WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
PBI	1356	EDT	19 Ft. MSL	7 NM	360 Deg. Mag.
Sky/Lowest Cloud Condition: Clear			0 Ft. AGL	Condition of Light: Day	
Lowest Ceiling: None		0 Ft. AGL		Visibility: 10 SM	Altimeter: 30.00 "Hg
Temperature: 33 °C	Dew Point: 24 °C	Weather Conditions at Accident Site: Visual Conditions			
Wind Direction: 120		Wind Speed: 15		Wind Gusts:	
Visibility (RVR): 0 Ft.		Visibility (RVV) 0 SM			
Precip and/or Obscuration:					

Accident Information		
Aircraft Damage: Substantial	Aircraft Fire: None	Aircraft Explosion: None

- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot					
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants					
Other Crew					
Passengers				1	1
- TOTAL ABOARD -				2	2
Other Ground	0	0	0		0
- GRAND TOTAL -	0	0	0	2	2

National Transportation Safety Board

FACTUAL REPORT

AVIATION



NTSB ID: MIA93LA189

Occurrence Date: 09/06/1993

Occurrence Type: Accident

Administrative Information

Investigator-In-Charge (IIC)

CARROL A. SMITH

Additional Persons Participating in This Accident/Incident Investigation:

MARY HURST
FT.LAUDERDALE, FL