



National Transportation Safety Board Aviation Accident Factual Report

Location:	RIALTO, CA	Accident Number:	LAX00LA181
Date & Time:	05/01/2000, 1645 PDT	Registration:	N5395S
Aircraft:	Hughes 269C	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 Minor

Flight Conducted Under: Part 91: General Aviation - Instructional

On May 1, 2000, about 1645 hours Pacific daylight time, a Hughes 269C, N5395S, operated by Western Operations, Inc., landed hard at the (uncontrolled) Rialto Municipal Airport, Rialto, California. The helicopter was substantially damaged, and the commercial certificated flight instructor (CFI) and the student sustained minor injuries. Visual meteorological conditions prevailed, and no flight plan was filed. The instructional flight was performed under 14 CFR Part 91, and it originated from Rialto about 1600.

The CFI indicated to the National Transportation Safety Board investigator that he was providing dual instruction to the student, and the student was handling all of the engine and flight controls. The CFI was providing training to the student who was a CFI candidate. The accident occurred during a practice, 180-degree full touchdown autorotation, when the helicopter's airspeed decreased and the main rotor rpm became too low. The CFI indicated that he observed the low rpm indication and called it to the attention of his student, but the student did not take decisive corrective action by promptly initiating a power recovery to avoid the resultant low rotor rpm flare and hard touchdown. No mechanical malfunctions were noted.

The student reported to the Safety Board investigator that he holds an airline transport pilot certificate with both airplane and rotorcraft ratings. He also holds a CFI certificate for airplanes. The purpose of the flight was to receive instruction in furtherance of a rotorcraft instructor's certificate. The student indicated that he commenced the practice full touchdown autorotation from 2,000 feet mean sea level (about 545 above ground level), and abeam the desired taxiway touchdown point. He stated that, "As I rolled out on final at 300 feet (agl) I was low." The student indicated that although he had initiated a power recovery, the helicopter impacted the ground hard. He also stated that no mechanical malfunctions occurred during the flight.

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	67, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Helicopter	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	04/27/2000
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	17000 hours (Total, all aircraft), 2000 hours (Total, this make and model), 75 hours (Last 90 days, all aircraft), 33 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Hughes	Registration:	N53955
Model/Series:	269C 269C	Aircraft Category:	Helicopter
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	100885
Landing Gear Type:	Skid	Seats:	3
Date/Type of Last Inspection:	100 Hour	Certified Max Gross Wt.:	2050 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	Not installed	Engine Model/Series:	HIO-360-D1A
Registered Owner:	METRO AIR SERVICES, INC.	Rated Power:	190 hp
Operator:	WESTERN OPERATIONS, INC.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	ONT, 944 ft msl	Distance from Accident Site:	11 Nautical Miles
Observation Time:	1653 PDT	Direction from Accident Site:	220°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	Broken / 25000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	13 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	86° C / 57° C
Precipitation and Obscuration:			
Departure Point:	(L67)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1600 PDT	Type of Airspace:	Class G

Airport Information

Airport:	RIALTO MUNICIPAL (L67)	Runway Surface Type:	Asphalt
Airport Elevation:	1455 ft	Runway Surface Condition:	Dry
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Simulated Forced Landing

Wreckage and Impact Information

Crew Injuries:	2 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	WAYNE POLLACK
Additional Participating Persons:	DENNIS PARR; RIVERSIDE, CA
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .