



Aviation Investigation Final Report

Location:	Colorado Springs, Colorado	Accident Number:	CEN10CA540
Date & Time:	September 4, 2010, 21:00 Local	Registration:	N16LH
Aircraft:	Beech E-90	Aircraft Damage:	Substantial
Defining Event:	Ground collision	Injuries:	4 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

Following a night landing, the pilot taxied to the ramp and was marshaled into a parking space by ground crew personnel. The pilot stopped the twin-engine airplane and set the parking brake before continuing with other checklist items. Unbeknownst to the pilot, the airplane began to roll forward until it impacted a tug and ground power unit, located approximately 25 feet across the ramp. During the impact, the nose landing gear collapsed and the nose of the airplane came to rest on the rear of the tug, resulting in substantial damage to the fuselage. A postaccident examination of the airplane revealed no mechanical malfunctions or failures that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to ensure that the airplane's parking brake was properly set before diverting his attention to other tasks.

Findings

Aircraft	Brake - Incorrect use/operation
Personnel issues	Monitoring equip/instruments - Pilot

Factual Information

History of Flight

Post-impact	Ground collision (Defining event)
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Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	60, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Helicopter; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	February 11, 2010
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	September 2, 2010
Flight Time:	7444 hours (Total, all aircraft), 220 hours (Total, this make and model), 5480 hours (Pilot In Command, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Beech	Registration:	N16LH
Model/Series:	E-90	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	LW-217
Landing Gear Type:	Retractable - Tricycle	Seats:	7
Date/Type of Last Inspection:	March 5, 2010 AAIP	Certified Max Gross Wt.:	10100 lbs
Time Since Last Inspection:		Engines:	2 Turbo prop
Airframe Total Time:	4170 Hrs at time of accident	Engine Manufacturer:	P&W CANADA
ELT:	Installed, not activated	Engine Model/Series:	PT6A-60A
Registered Owner:	CAPE LOOKOUT MARINE INC	Rated Power:	550 Horsepower
Operator:	Sundance Farms Inc.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night
Observation Facility, Elevation:	COS	Distance from Accident Site:	
Observation Time:	17:45 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	6 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	22°C / 0°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Ontario, OR (ONO)	Type of Flight Plan Filed:	IFR
Destination:	Colorado Springs, CO (COS)	Type of Clearance:	IFR
Departure Time:	16:45 Local	Type of Airspace:	

Airport Information

Airport:	Colorado Springs Municipal COS	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:		IFR Approach:	Visual
Runway Length/Width:		VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	38.805557,-104.700553(est)

Administrative Information

Investigator In Charge (IIC):	LeBaron, Timothy
Additional Participating Persons:	David Kempfer; Federal Aviation Administration; Denver, CO
Original Publish Date:	May 5, 2011
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=77310

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