

**Aircraft Type and Registration:** Robinson R22 Beta, G-BOEY

**No & Type of Engines:** 1 Lycoming O-320-B2C piston engine

**Year of Manufacture:** 1988

**Date & Time (UTC):** 28 January 1994 at 1217 hrs

**Location:** Redhill Aerodrome, Surrey

**Type of Flight:** Aerial Work (Training)

**Persons on Board:** Crew - 2                      Passengers - None

**Injuries:** Crew - None                      Passengers - N/A

**Nature of Damage:** Extensive

**Commander's Licence:** Airline Transport Pilot's Licence (Helicopters) with Flying Instructor Rating

**Commander's Age:** 54 years

**Commander's Flying Experience:** 10,406 hours (of which 1,135 were on type)  
Last 90 days - 85 hours  
Last 28 days - 33 hours

**Information Source:** Aircraft Accident Report Form submitted by the pilot

The helicopter was carrying out a dual training sortie in order that the student could practice take-off, circuit and landing procedures and simulated engine-off landings, including practice engine failures in the hover. The instructor reported that during the latter exercise the student, who had 11 hours on type, was having some difficulty in coordinating yaw pedal inputs with the correct amount of collective pitch lever to cushion the touchdowns. On the final exercise a drift to the left developed, too little collective lever was applied, the helicopter touched down firmly and bounced. It was still drifting to the left when the second touchdown occurred, and the student raised the collective pitch lever almost to full travel. The helicopter rolled rapidly left and initially balanced on its left skid, but when the collective lever was lowered, the helicopter continued to roll over onto its left side.

There was no fire, the engine was quickly shut down, and both occupants vacated the helicopter by the right-hand door. The weather conditions at the time of the accident were reported as surface wind 310°/20 gusting 32 kt, visibility 40 km, with scattered cloudbase 3,000 feet.

The instructor assessed the cause of the accident as poor control coordination by the student followed by too slow a reaction by the instructor to the unexpected large collective input.