

**ACCIDENT**

<b>Aircraft Type and Registration:</b>	Rotorway Executive 162F, G-CCMU	
<b>No &amp; Type of Engines:</b>	1 Rotorway RI 162F piston engine	
<b>Year of Manufacture:</b>	2004 (Serial no: 6720)	
<b>Date &amp; Time (UTC):</b>	26 October 2017 at 1650 hrs	
<b>Location:</b>	Salterford Farm, Nottinghamshire	
<b>Type of Flight:</b>	Private	
<b>Persons on Board:</b>	Crew - 1	Passengers - 1
<b>Injuries:</b>	Crew - None	Passengers - 1 (Minor)
<b>Nature of Damage:</b>	Extensive	
<b>Commander's Licence:</b>	Private Pilot's Licence	
<b>Commander's Age:</b>	47 years	
<b>Commander's Flying Experience:</b>	60 hours (of which 17 were on type) Last 90 days - 8 hours Last 28 days - 2 hours	
<b>Information Source:</b>	Aircraft Accident Report Form submitted by the pilot	

The pilot was returning after a local flight and as he turned onto finals, at approximately 40 to 50 ft, the helicopter yawed to the left. He attempted to correct with right pedal but the turn sped up quickly. The pilot noticed he was losing height and raised the collective lever, but he was unable to stop the descent. The helicopter spun two or three times before striking the grass surface with skids level. It then rolled over, causing extensive damage (Figure 1). Both occupants were restrained by their harnesses and could exit the aircraft through the broken windscreen.



**Figure 1**  
G-CCMU after the accident

The pilot commented that he had allowed his airspeed to reduce excessively during his approach and may have inadvertently entered a hover out of ground effect. This requires a collective input and a significant increase in power. If insufficient engine power is applied, the rotor speed will drop. This can reduce tail rotor effectiveness and is likely to have resulted in the spin.

The Rotorways Executive 162F pilot operating handbook prohibits out of ground effect hovers for all pilots under 150 hours.

The pilot was relatively inexperienced on helicopters and commented that he may not have identified the situation as it unfolded.