Pt. 60, App. C

14 CFR Ch. I (1-1-19 Edition)

QPS requirements					Information	
Entry No.	Motion system (and special aerodynamic model) effects	Simulator level			Nistas	
		В	С	D	Notes	
14	Translational Lift Effects: Procedure: From a stabilized in-ground-effect (IGE) Hover begin a forward acceleration. When passing through the effective translational lift range, the noticeable effect will be a possible nose pitch-up in some hel- icopters, an increase in the rate of climb, and a temporary increase in vibration level (in some cases this vibration may be pro- nounced). This effect is experienced again upon deceleration through the appropriate speed range. During deceleration, the pitch and rate of climb will have the reverse ef- fect, but there will be a similar, temporary in- crease in vibration level	×	×	×		

TABLE C3D—FUNCTIONS AND SUBJECTIVE TESTS—Continued

TABLE C3E—FUNCTIONS AND SUBJECTIVE TESTS

QPS Requirements								
Entry num- ber	Sound system		Simulator level					
			С	D				
The followi	ng checks are performed during a normal flight profile, motion system ON.							
1	Precipitation.		x	х				
2	Rain removal equipment		x	х				
3	Helicopter noises used by the pilot for normal helicopter operation		x	х				
4	Abnormal operations for which there are associated sound cues, including engine malfunctions, landing gear or tire malfunctions, tail boom.		x	х				
5	Sound of a crash when the flight simulator is landed in excess of limitations		х	х				

TABLE C3F—FUNCTIONS AND SUBJECTIVE TESTS

QPS Requirements								
Entry num- ber	Special effects		Simulator level					
			С	D				
This table sp	becifies the minimum special effects necessary for the specified simulator level.							
1	Braking Dynamics:		x	x				
2	Effects of Airframe and Engine Icing: Required only for those helicopters authorized for operations in known icing conditions. Procedure: With the simulator airborne, in a clean configuration, nominal altitude and cruise air- speed, autopilot on and auto-throttles off, engine and airfoil anti-ice/de-ice systems deacti- vated; activate icing conditions at a rate that allows monitoring of simulator and systems re- sponse. Icing recognition will include an increase in gross weight, airspeed decay, change in simulator pitch attitude, change in engine performance indications (other than due to airspeed changes), and change in data from pitol/static system, or rotor out-of-track/balance. Activate heating, antti-ice, or de-ice systems independently. Recognition will include proper effects of these sys- tems, eventually returning the simulated helicopter to normal flight.		x	x				