

TABLE D1A—MINIMUM FTD REQUIREMENTS—Continued

QPS requirements					Information	
Entry No.	General FTD requirements	FTD level				Notes
		4	5	6	7	
3.e. ....	The FTD must provide control forces and control travel that correspond to the replicated helicopter or set of helicopters. Control forces must react in the same manner as in the helicopter or set of helicopters under the same flight conditions			X	X	
3.f. ....	The FTD must provide control forces and control travel of sufficient precision to manually fly an instrument approach. The control forces must react in the same manner as in the helicopter or set of helicopters under the same flight conditions		X			
4. Instructor or Evaluator Facilities.						
4.a. ....	In addition to the flight crewmember stations, suitable seating arrangements for an instructor/check airman and FAA Inspector must be available. These seats must provide adequate view of crewmember's panel(s)	X	X	X	X	These seats need not be a replica of an aircraft seat and may be as simple as an office chair placed in an appropriate position.
4.b. ....	The FTD must have instructor controls that permit activation of normal, abnormal, and emergency conditions, as appropriate. Once activated, proper system operation must result from system management by the crew and not require input from the instructor controls.	X	X	X	X	
5. Motion System						
5.a. ....	A motion system may be installed in an FTD. If installed, the motion system operation must not be distracting. If a motion system is installed and additional training, testing, or checking credits are being sought, sensory cues must also be integrated. The motion system must respond to abrupt input at the pilot's position within the allotted time, but not before the time when the helicopter responds under the same conditions. The motion system must be measured by latency tests or transport delay tests and may not exceed 150 milliseconds. Instrument response must not occur prior to motion onset	X	X	X	X	
5.b. ....	The FTD must have at least a vibration cueing system for characteristic helicopter vibrations noted at the pilot station(s)				X	May be accomplished by a "seat shaker" or a bass speaker sufficient to provide the necessary cueing.
6. Visual System						
6.a. ....	The FTD may have a visual system, if desired, although it is not required. If a visual system is installed, it must meet the following criteria:					
6.a.1. ....	The visual system must respond to abrupt input at the pilot's position. An SOC is required .....	X	X	X		
6.a.2. ....	The visual system must be at least a single channel, non-collimated display. An SOC is required .....	X	X	X		