

TABLE D2A—FLIGHT TRAINING DEVICE (FTD) OBJECTIVE TESTS—Continued

QPS requirements							Information			
Test		Tolerances	Flight conditions	Test details	FTD level			Notes		
Entry No.	Title				5	6	7			
4.	Visual System									
4.a.	Visual System Response Time: (Choose either test 4.a.1. or 4.a.2. to satisfy test 4.a., Visual System Response Time Test. This test is also sufficient for flight deck instrument response timing.)							
4.a.1.	Latency.									
		150 ms (or less) after helicopter response.	Takeoff, climb, and descent.	One test is required in each axis (pitch, roll and yaw) for each of the three conditions (take-off, cruise, and approach or landing).			X			
4.a.2.	Transport Delay.									
		150 ms (or less) after controller movement.	N/A	A separate test is required in each axis (pitch, roll, and yaw).			X			
4.b.	Field-of-view.									
4.b.1.	Reserved.									
4.b.2.	Continuous visual field-of-view.	Minimum continuous field-of-view providing 146° horizontal and 36° vertical field-of-view for each pilot simultaneously and any geometric error between the Image Generator eye point and the pilot eye point is 8° or less.	N/A	An SOC is required and must explain the geometry of the installation. Horizontal field-of-view must not be less than a total of 146° (including not less than 73° measured either side of the center of the design eye point). Additional horizontal field-of-view capability may be added at the sponsor's discretion provided the minimum field-of-view is retained. Vertical field-of-view: Not less than a total of 36° measured from the pilot's and co-pilot's eye point.			X	Horizontal field-of-view is centered on the zero degree azimuth line relative to the aircraft fuselage.		
4.b.3.	Reserved.									