QPS requirements							Information	
Test		Televeneee	Elight conditions	Toot dotaila	FTD level		vel	Notoo
Entry No.	Title	roierances	Flight conditions	i est détails	5	6	7	notes
1.	Performance							
1.a	Engine Assessment.							
1.a.1	Start Operations.							
1.a.1.a	Engine start and acceleration (transient).	Light Off Time—±10% or ±1 sec. Torque—±5% Rotor Speed— ±3% Fuel Flow—±10% Gas Generator Speed—±5% Power Turbine Speed—±5% Gas Tur- bine Temp—±30 °C.	Ground with the Rotor Brake Used and Not Used.	Record each engine start from the initiation of the start se- quence to steady state idle and from steady state idle to oper- ating RPM.		x	x	
1.a.1.b	Steady State Idle and Operating RPM condi- tions.	Torque—±3% Rotor Speed— ±1.5% Fuel Flow—±5% Gas Generator Speed—±2% Power Turbine Speed—±2% Turbine Gas Temp—±20 °C.	Ground	Record both steady state idle and operating RPM conditions. May be a series of snapshot tests.	x	x	x	
1.a.2	Power Turbine Speed Trim.	±10% of total change of power turbine speed; or ±0.5% change of rotor speed.	Ground	Record engine response to trim system actuation in both directions.		x	х	
1.a.3	Engine and Rotor Speed Governing.	Torque—±5% Rotor Speed— ±1.5%.	Climb Descent	Record results using a step input to the collective. May be con- ducted concurrently with climb and descent performance tests.		x	x	
1.b	Reserved.							
1.c	Takeoff.							
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TABLE D2A—FLIGHT TRAINING DEVICE (FTD) OBJECTIVE TESTS

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