Table B2B - Alternative Data Source for FTD Level 5		
Small, Single Engine (Reciprocating) Airplane		
QPS REQUIREMENT The performance parameters in this table must be used to program the FTD if flight test data is not used to program the FTD.		
Applicable Test		**Authorized Performance Range**
Entry Number	**Title and Procedure**	
2.c.8.	Stall warning (actuation of stall warning device) with nominal gross weight; wings level; and a deceleration rate of not more than three (3) knots per second.	
	a) Landing configuration.	40 - 60 knots; ± 5° of bank.
	b) Clean configuration.	Landing configuration speed + 10 - 20%.
2.c.9.b.	Phugoid dynamics.	Must have a phugoid with a period of 30 - 60 seconds. May not reach ½ or double amplitude in less than 2 cycles.
2.d.	**Lateral Directional Tests.**	
2.d.2.	Roll response (rate). Roll rate must be measured through at least 30 degree of roll. Aileron control must be deflected 1/3 (33.3 percent) of maximum travel.	Must have a roll rate of 4° - 25°/second.
2.d.4.c.	Spiral stability. Cruise configuration and normal cruise airspeed. Establish a 20 degree - 30 degree bank. When stabilized, neutralize the aileron control and release. Must be completed in both directions of turn.	Initial bank angle (± 5°) after 20 seconds.
2.d.6.b.	Rudder response. Use 25 percent of maximum rudder deflection. (Applicable to approach or landing configuration.)	2° - 6° /second yaw rate.
2.d.8.	Steady state sideslip. Use 50 percent rudder deflection. (Applicable to approach and landing configurations.)	2 percent – 10 percent of bank; 4 percent - 10 percent of sideslip; and 2 percent -10 percent of aileron.
6.	FTD System Response Time.	
6.a.	Flight deck instrument systems response to an abrupt pilot controller input. One test is required in each axis (pitch, roll, yaw).	300 milliseconds or less.