FAA Test Hazard Analysis

FAR No.:	FAR Title:	Risk Level:
25.201	Stall Demonstration	High
Maneuver Title: Stall		
Maneuver Description:		
As per AC 25-7A Section 6 "Stalls" Para 29		
1) Trim hands off between 1.13 and 1.3 Vsr1		
2) 1 kt/sec decel wings level		
3) 1 and 3 kt/sec turning		
4) Power off and power on;		
5) Power on = PLF at MLGW and 1.5 Vsr1, flaps approach		
6) Stall defined by nose down pitch not readily arrested; deterrent buffet; stick pusher;		
or stick at the aft stop (2 sec min)		
Hazard:		
Cause(s):		
1. 1. Unpredicted aerodynamic response.		
2. Stick Pusher fails to prevent aircraft from reaching aerodynamic stall.		
S. Improper control inputs.		
1 1 1 De stell testing in a buildun annroach:		
1.1 1. Do stall testing in a buildup approach:		
a. If only least firsk to highest firsk		
i. Forward eg, find eg, aft eg ji. Power off before power op		
iii. Wings level before turning		
iv 1 kt/sec before 3 kt/sec		
b terminate buildup if FAR limits on bank angle are exceeded at any point of the		
buildun		
2. Establish minimum altitudes for:		
a. entry.		
b. recovery initiation.		
c. recovery chute d	leployment and	
d. manual bailout.		
3. Perform pre-flight checks of stall warning and stick pusher, as applicable.		
4. Anti-spin chute must be installed, functional and armed. Perform pre-flight and pre-		
maneuver checks of chute as applicable.		
5. Minimum crew onboard.		
6. Emergency Egress system must be installed and armed. Perform pre-flight and pre-		
maneuver checks of egress system as applicable.		
7. Crew to wear helmets and parachutes.		
8. Surface winds must be less than xx kts (parachute dependent).		
9. No aggravated input stalls. All stalls will be ball centered.		
10. No asymmetric power stalls.		

If departing controlled flight retard throttles to idle and centralize controls.
Do not add power during recovery until airspeed is increasing above 1.2 Vs.

Warning: It is imperative that this information be applied by a knowledgeable flight test professional given the inherently hazardous nature of these activities. This data is general and all items may not apply. Applicationmay require additional research to understanding the safe approach and mitigation sequence for a specific flight test situation.

FAA Note: The maneuver information described in this database is for reference only. Consult Title 14 CFR for actual FAR requirements.