

Applicant's Name \_\_\_\_\_

# STRUCTURAL

*Reference FAA Order 8110.37, Appendix 2, Chart A*

## DER APPLICATION EVALUATION TECHNICAL CRITERIA

*Delegated Functions & Authorized Areas*

- ? Applicant indicates requested area(s) of delegation and attaches supporting data to establish technical expertise and experience.
- ? Advisor (Adv) evaluates requested area(s), recommends area(s) to Evaluation Panel (EP), (Y=YES; N=NO) and provides rationale.
- ? Evaluation Panel evaluates area(s) recommended by Advisor, marks EP column, (Y=YES; N=NO) and provides rationale.

<i>DER APPLICANT USE ONLY</i>		<i>FAA USE ONLY</i>		<i>DER APPLICANT USE ONLY</i>		<i>FAA USE ONLY</i>	
Requested Areas	STATIC ANALYSIS	Adv	EP	Requested Areas	FLUTTER/GROUND VIBRATION	Adv	EP
	1A Structures - General (1)				5A Structures - General (1)		
	1B Wing Group				5G Rotor		
	1C Fuselage Group				5P Structures Special (Specify)		
	1D Empennage Group						
	1E Landing Gear						
	1F Flight Controls						
	1G Rotor						
	1P Structures Special (Specify)						
Requested Areas	DYNAMIC ANALYSIS	Adv	EP	Requested Areas	SAFETY ANALYSIS	Adv	EP
	2A Structures - General (1)				6A Structures - General (1)		
	2E Landing Gear				6E Landing Gear		
	2G Rotor				6F Flight Controls		
	2P Structures Special (Specify)				6M Fire Protection		
					6N Evacuation Systems		
					6O Door Systems		
					6P Special (Specify)		
Requested Areas	FATIGUE ANALYSIS	Adv	EP	Requested Areas	FLOTATION AND DITCHING ANALYSIS	Adv	EP
	3A Structures - General (1)				7A Structures - General (1)		
	3B Wing Group				7P Special (Specify)		
	3C Fuselage Group						
	3D Empennage Group						
	3E Landing Gear						
	3G Rotor						
	3P Structures Special (Specify)						
Requested Areas	DESIGN AND CONSTRUCTION	Adv	EP	Requested Areas	STRUCTURAL LOADING LIMITATIONS	Adv	EP
	4A Structures - General (1)				8H Loading Control Documents		
	4B Wing Group				8P Special (Specify)		
	4C Fuselage Group						
	4D Empennage Group						
	4E Landing Gear						
	4F Flight Controls						
	4G Rotor						
	4K Interior Arrangements						
	4L Interior Materials						
	4M Fire Protection						
	4N Evacuation Systems						
	4O Door Systems						
	4P Structures Special (Specify)						
Requested Areas	SERVICE DOCUMENTS	Adv	EP	Requested Areas	SERVICE DOCUMENTS	Adv	EP
	9A Structures - General (1)				9A Structures - General (1)		
	9B Wing Group				9B Wing Group		
	9C Fuselage Group				9C Fuselage Group		
	9D Empennage Group				9D Empennage Group		
	9E Landing Gear				9E Landing Gear		
	9F Flight Controls				9F Flight Controls		
	9G Rotor				9G Rotor		
	9K Interior Arrangements				9K Interior Arrangements		
	9L Interior Materials				9L Interior Materials		
	9M Fire Protection				9M Fire Protection		
	9N Evacuation System				9N Evacuation System		
	9O Door Systems				9O Door Systems		
	9P Structures Special (Specify)				9P Structures Special (Specify)		

Applicant's Name \_\_\_\_\_

**STRUCTURAL**  
*Reference FAA Order 8110.37, Appendix 2, Chart A*

<i>DER APPLICANT USE ONLY</i>		<i>FAA USE ONLY</i>	
<b>Requested Areas</b>	<b>MATERIAL &amp; PROCESS SPECIFICATIONS</b>	<b>Adv</b>	<b>EP</b>
	10I Metallic Materials		
	10J Nonmetallic Materials		
	10P Structures Special (Specify)		
<b>Requested Areas</b>	<b>FLAMMABILITY</b>	<b>Adv</b>	<b>EP</b>
	11L Interior Materials		
	11M Fire Protection		
	11P Special (Specify)		
<b>Requested Areas</b>	<b>DAMAGE TOLERANCE EVALUATIONS</b>	<b>Adv</b>	<b>EP</b>
	12A Structural - General (1)		
	12G Rotor		
	12P Special (Specify)		

**NOTE (1):** The general category in the structures chart embraces all airframe components such as wing, fuselage, empennage, landing gear, flight controls, engine mounts, and special components, but does not apply to rotors.

**Additional requirements for a Delegated Function of Damage Tolerance Evaluation:**

(a) Education -

Circle One

- Yes No 1. A degree in Engineering Mechanics, or
- Yes No 2. A degree in Aerospace/Aeronautical Engineering, or
- Yes No 3. A degree in Mechanical Engineering, or
- Yes No 4. A degree in Civil Engineering.
- Yes No 5. In addition to one of the above, a course in fractures mechanics is desirable, if not taken during the degree program.

(b) Experience -

Circle One

- Yes No 1. Two to three years experience in airframe stress analysis; and
- Yes No 2. Three to five years continuous experience in damage tolerance analysis, performing as the principal investigator and responsible for results and conclusions for at least two of those years.

**Additional requirements for a Delegated Function of Fatigue Analysis:**

(a) Education -

Circle One

- Yes No 1. A degree in Engineering Mechanics, or
- Yes No 2. A degree in Aerospace/Aeronautical Engineering, or
- Yes No 3. A degree in Mechanical Engineering, or
- Yes No 4. A degree in Civil Engineering.
- Yes No 5. In addition to one of the above, a course in fatigue analysis is desirable, if not taken during the degree program.

(b) Experience -

Circle One

- Yes No 1. The equivalent of two full years experience in fatigue analysis. This experience shall be within the last ten years prior to appointment.