

**Appendix A. Delegated Functions and Authorized Areas**

**Figure A-1. Chart A, DER Structural**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS															
		Structural-General (1)	Structural-Wing Group	Structural-Fuselage Group	Structural-Emppennage Group	Structural-Landing Gear	Structural-Flight Controls	Structural-Rotor	Loading Control Documents (4)	Metallic Materials (2)	Nonmetallic Materials (3)	Interior Arrangements	Interior Materials	Fire Protection	Evacuation Systems	Door Systems	Special (Specify)
DELEGATED FUNCTIONS		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	STATIC ANALYSIS																
2	DYNAMIC ANALYSIS																
3	FATIGUE ANALYSIS																
4	DESIGN AND CONSTRUCTION																
5	FLUTTER/GROUND VIBRATION																
6	SAFETY ANALYSIS																
7	FLOTATION & DITCHING ANALYSIS																
8	STRUCTURAL LOADING LIMITATIONS																
9	SERVICE DOCUMENTS																
10	MATERIAL & PROCESS SPEC.																
11	FLAMMABILITY																
12	DAMAGE TOLERANCE EVALUATIONS																
<p><b>Note (1):</b> Includes all airframe components: wing, fuselage, empennage, landing gear, flight controls, engine mounts, and special components. Does not apply to rotors.</p> <p><b>Notes (2) and (3):</b> Select Specialty by Note number and sub-letter from lists below. General applies to all processes listed.</p> <p>(2) Metallic Materials/Processes            A - Materials &amp; Processes - General            B - Non-Destructive Inspection/Testing            C - Metallurgy            D - Metal Joining Processes            E - Structural Adhesives            F - Mechanical Fasteners            G - Surface Treatment/Coatings            H - Bearings</p> <p>(3) Nonmetallic Materials/Processes            A - Material &amp; Processes - General            B - Transparent (Glazed) Material            C - Polymeric Materials            D - Structural Adhesives            E - Mechanical Fasteners            F - Composites            G - Non-Destructive Inspection/Testing            H - Surface Treatment &amp; Coatings            I - Structural Joining Methods</p> <p><b>Note (4):</b> Item H8 is the proper delegation for weight and balance manual approvals.</p>																	

**Figure A-2. Chart B, DER Powerplant Installations**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

DELEGATED FUNCTIONS		AUTHORIZED AREAS					
		A Airplane Turbine Engine	B Airplane Piston Engine	C Rotorcraft Turbine Engine	D Rotorcraft Piston Engine	E Auxiliary Power Unit (APU)	F Special (Specify)
1	ENGINE INSTALLATION						
2	FUEL & OIL						
3	INDUCTION/EXHAUST SYSTEMS						
4	THRUST REVERSERS						
5	FIRE PROTECTION						
6	ICE PROTECTION						
7	COOLING						
8	ENGINE PERFORMANCE/OPERATIONS						
9	INDICATING SYSTEMS						
10	LIGHTNING/HIRF PROTECTION						
11	SOFTWARE						
12	CONTROL SYSTEM - ELECTRONIC						
13	CONTROL SYSTEM - MECHANICAL						
14	EMISSIONS						
15	VIBRATION - ENGINE, PROPELLER, OR DRIVE SYSTEM						
16	PROPELLER						
17	DRIVE SYSTEM						
18	TRANSMISSIONS						
19	SAFETY ANALYSIS						
20	SERVICE DOCUMENTS						

**Figure A-3. Chart C1, DER Systems and Equipment (Mechanical Equipment)**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS													
		Air Conditioning	Hydraulic	Ice Protection	Rain Protection	Oxygen	Pneumatics	Wheels, Tires, and Brakes	Interior Arrangements	Interior Materials	Pressurization	Fire Protection	Water System, Potable and Waste	Evacuation Systems	Special (Specify)
DELEGATED FUNCTIONS		A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	DETAIL DESIGN AND INSTALLATION														
2	EQUIPMENT QUALIFICATION TESTS														
3	SOFTWARE														
4	SAFETY ANALYSIS														
5	FLAMMABILITY														
6	LIGHTNING/HIRF PROTECTION														
7	SERVICE DOCUMENTS														

**Figure A-4. Chart C2, DER Systems and Equipment (Electrical Equipment)**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS											
		Electrical Equipment/Systems	Electronic Equipment/Systems	Communications Systems/Antennas	Automatic Flight Controls/Augmentation	Instruments	Navigation Systems/Antennas	Air Data/Pitot Static	Warning Systems	Interior/Exterior Lighting	Flight Data/Voice Recording	Passenger Address/Entertainment	Special (Specify)
DELEGATED FUNCTIONS		A	B	C	D	E	F	G	H	I	J	K	L
1	DETAIL DESIGN AND INSTALLATION												
2	EQUIPMENT QUALIFICATION TESTS												
3	SOFTWARE												
4	SERVICE DOCUMENTS												
5	ELECTRICAL LOAD ANALYSIS												
6	SAFETY ANALYSIS												
7	LIGHTNING/HIRF PROTECTION												

**Figure A-5. Chart D, DER Radio**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS				
		Radio Design	Operating Characteristics	Antenna Design	Radio Installation	Special (Specify)
DELEGATED FUNCTIONS		A	B	C	D	E
1	ANALYTICAL SUBSTANTIATION					
2	DETAIL DESIGN					
3	SAFETY ANALYSIS					
4	SERVICE DOCUMENTS					

**Figure A-6. Chart E, DER Engines**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS		
		Turbine Engines	Piston Engines	Special (Specify)
DELEGATED FUNCTIONS		A	B	C
1	DETAIL DESIGN			
2	BLOCK TESTS			
3	PERFORMANCE CHARACTERISTICS			
4	VIBRATION ANALYSIS			
5	OPERATION MANUALS			
6	OVERHAUL MANUALS			
7	SERVICE DOCUMENTS			
8	EMISSIONS EVALUATION			
9	SOFTWARE			
10	SAFETY ANALYSIS			
11	LIGHTNING/HIRF PROTECTION			

**Figure A-7. Chart F, DER Propellers**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS		
		Controllable-Pitch Propellers	Fixed Pitch Propellers	Special (Specify)
DELEGATED FUNCTIONS		A	B	C
1	DETAIL DESIGN			
2	BLOCK TESTS			
3	PERFORMANCE CHARACTERISTICS			
4	VIBRATION ANALYSIS			
5	OPERATION MANUALS			
6	OVERHAUL MANUALS			
7	SERVICE DOCUMENTS			
8	SOFTWARE			
9	SAFETY ANALYSIS			
10	LIGHTNING/HIRF PROTECTION			

**Figure A-8. Chart G, DER Flight Analyst**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS											
		Aircraft Performance	Aerodynamics	Flight Characteristics	Sys. Calib. (Air Spd., Alt., Air Temp.)	Propulsion Sys. & Related Components	Elec./Electronic Sys.-Related Components	Mech. & Hyd. Sys.-Related Components	Pressure & Air Conditioning Systems	Auto Control Systems	Ice Protection System	Special (Specify)	Part 36 Reference Conditions (1)
DELEGATED FUNCTIONS		A	B	C	D	E	F	G	H	I	J	K	L
1	REVIEW FLIGHT TEST PLANS												
2	REVIEW FLIGHT TEST INSTRUMENTATION												
3	WEIGHT AND BALANCE SURVEILLANCE												
4	FLIGHT TEST DATA RECORDING												
5	FLIGHT TEST DATA REDUCTION/ANALYSIS												
6	FLIGHT TEST DATA EXPANSION (ALTITUDE/TEMPERATURE/WEIGHT)												
7	COMPILE FLIGHT TEST REPORTS												
8	COMPILE PERFORMANCE SUBSTANTIATION REPORTS												
9	COMPLETE PORTIONS OF TYPE INSPECTION REPORTS												
10	REVIEW AIRCRAFT FLIGHT MANUAL AND RECOMMEND APPROVAL (2)												
11	COMPILE PART 36 REFERENCE PROFILES												
<p><b>Note (1) :</b> 14 CFR Part 36 reference profiles and conditions may be controlled by identifying the specific appendix to 14 CFR part 36 (e.g., Appendix B, Appendix G, Appendix H, Appendix J) or by the 14 CFR part e.g., parts 23, 25, 27, and 29) identified in the DER's certificate of authority. Identify limitations as necessary.</p> <p><b>Note (2):</b> Although the chart authority limits a DER to recommending approval, the FAA may authorize a DER with this delegated function to approve AFM revisions or supplements. DERs may only recommend approval, unless specifically authorized to approve AFM revisions or supplements.</p>													



**Figure A-9. Chart H, DER Flight Test Pilot**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS										
		Aircraft Performance	Flight Characteristics	Propulsion Systems	Hyd., Elec., & Pneu. Systems	Pressurization and A/C Systems	Flight Instruments & Systems	Auto Control Systems	Ice Protection Systems	Operating Limitations/Procedures	H/V (Rotorcraft)	Special (Specify)
DELEGATED FUNCTIONS		A	B	C	D	E	F	G	H	I	J	K
1	RECOMMEND APPROVAL OF FLIGHT TEST PLANS (1)											
2	CONDUCT GROUND TESTS AND EVALUATIONS											
3	CONDUCT FLIGHT TESTS AND EVALUATIONS											
4	COMPILE TEST REPORTS											
5	COMPLETE PORTIONS OF AND APPROVE THE TYPE INSPECTION REPORT											
6	RECOMMEND APPROVAL OF AIRCRAFT FLIGHT MANUAL (2)											
<p><b>Note (1):</b> Although the chart authority limits a DER to recommending approval, the FAA may authorize a DER with this delegated function to approve flight test plans. DERs may only recommend approval of test plans, unless specifically authorized to approve them.</p> <p><b>Note (2):</b> Although the chart authority limits a DER to recommending approval, the FAA may authorize a DER with this delegated function to approve AFM revisions or supplements. DERs may only recommend approval, unless specifically authorized to approve AFM revisions or supplements.</p>												

**Figure A-10. Chart I, DER Acoustical**

Functions and areas that *can* be authorized are defined by *white squares*. Each DER's authority may be different, and is identified in their letter of appointment.

		AUTHORIZED AREAS	
		Acoustical	Special (Specify)
DELEGATED FUNCTIONS		A	B
1	MEASUREMENT LOCATIONS		
2	RECORDING EQUIPMENT		
3	ANALYSIS EQUIPMENT		
4	ENVIRONMENTAL CONDITIONS		
5	CALCULATION PROCEDURE		
<p><b>Note:</b> Acoustical DERs may only recommend approval of test plans and final noise certification compliance reports. Acoustical DERs may also recommend approval for AFM/AFMS/SFM pages or other media related to compliance with 14 CFR § 36.1581 and § 36.1583.</p>			