

# AIRBORNE SYSTEMS TESTING

**Innovation.  
Integrity.  
Dependability.**



***DTB offers 70 years of experience in testing aerospace systems for both fixed wing and rotorcraft applications that contribute to Flight Safety and Readiness directives. Our engineering experience runs the gamut from Conformance Inspection or Failure Analysis, to In-flight Instrumentation and Data Acquisition, to Alternate source Qualification Testing.***

## **TESTING SERVICES**

- First Article Inspections
- Life Cycle and Durability Testing
- Environmental Simulation Testing
- Dynamics and Vibration Testing
- EMI, EMC and Electrical Testing
- Structural and Fatigue Testing
- Alternate Source Qualification Testing
- Instrumentation and Data Acquisition
- Lightning Testing

## **ENGINEERING SERVICES**

- Design and Program Engineering
- Reverse Engineering
- Metallurgical Engineering
- Design Engineering, Fabrication
- Failure Analysis
- Prototyping
- Static Load

**[www.dtb.com](http://www.dtb.com)**



*A World of Engineering and Testing  
Under One Roof™*



\* Accredited Test Lab  
767.01, 767.02, 767.03

**ISO 9001:2015 and AS9100D  
Registered**



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Visit our web site at: [www.dtb.com](http://www.dtb.com)

\* Please visit [www.dtb.com](http://www.dtb.com) for testing covered under our scopes of accreditation.

# AIRBORNE SYSTEMS MILITARY & COMMERCIAL

MILITARY REQUIREMENT	TEST DESCRIPTION	COMMERCIAL REQUIREMENT
MIL-STD-810	Acceleration	
MIL-STD-810	Altitude	RTCA/DO-160
Design Requirement	Arrested Landing Simulation	
MIL-STD-461/462/704	Electrical Power/Power Inputs	RTCA/DO-160
Design Requirement	Emergency Ejection Simulation	
MIL-STD-461/462	EMI	RTCA/DO-160
MIL-STD-810	Explosive Decompression	
MIL-STD-810	Explosive Atmosphere/Explosion Proofness	RTCA/DO-160
	RTCA/DO-160	RTCA/DO-160
MIL-STD-810	Fluids Susceptibility	RTCA/DO-160
MIL-STD-810	Fungus Resistance	RTCA/DO-160
MIL-STD-810	Humidity	RTCA/DO-160
MIL-STD-1757	Icing	RTCA/DO-160
	Lightning (multiple burst / multiple stroke)	RTCA/DO-160-Section 22, SAE ARP5412, EUROCAE/ED-14E, FAA AC:20-136, SAE AE4L
	Magnetic Effect	RTCA/DO-160
MIL-STD-740	Noise	
MIL-STD-810	Salt Fog	RTCA/DO-160
MIL-STD-810	Sand & Dust	RTCA/DO-160
MIL-STD-810	Shock	RTCA/DO-160
Design Requirement	Structural Testing	
MIL-STD-810	Temperature	RTCA/DO-160
MIL-STD-810	Vibration	RTCA/DO-160
MIL-STD-810	Wind & Rain/Waterproofness	RTCA/DO-160

Note: The above specifications are the most frequently used. Similar tests can be provided for other specifications or for individual requirements.



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**DAYTON T. BROWN, INC.**  
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