

**FIGURE A-2 ENVIRONMENTAL QUALIFICATION FORM  
EXAMPLE**

NOMENCLATURE: \_\_\_\_\_  
 TYPE/MODEL/PART NO: \_\_\_\_\_ TSO NUMBER \_\_\_\_\_  
 MANUFACTURER'S SPECIFICATION AND/OR OTHER APPLICABLE SPECIFICATION: \_\_\_\_\_  
 \_\_\_\_\_  
 MANUFACTURER: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_  
 REVISION & CHANGE NUMBER OF DO-160: \_\_\_\_\_ DATE TESTED: \_\_\_\_\_

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Temperature and Altitude	4.0	Equipment tested to Categories A2, F2
Low Temperature	4.5.1	With auxiliary air cooling, tested to Category W
High Temperature	4.5.2 & 4.5.3	
In-Flight Loss of Cooling	4.5.4	
Altitude	4.6.1	
Decompression	4.6.2	
Overpressure	4.6.3	
Temperature Variation	5.0	Equipment tested to Category B.
Humidity	6.0	Equipment tested to Category A.
Operational Shock and Crash Safety	7.0	Equipment tested to Category B.
Vibration	8.0	Equipment tested to Category S, aircraft zone 4 for fixed wing turbojet engine aircraft, fixed wing unducted turbofan engine aircraft and fixed wing reciprocating/turbojet engine aircraft less than 5,700 kg using vibration test curves W and L.
Explosion	9.0	Equipment identified as Category X, no test performed.
Waterproofness	10.0	Equipment identified as Category X, no test performed.
Fluids Susceptibility	11.0	Equipment identified as Category F Equipment spray tested with phosphate ester-based hydraulic fluid and immersion tested with AEA Type 1 De-icing fluid.
Sand and Dust	12.0	Equipment identified as Category X, no test performed.
Fungus	13.0	Equipment tested to Category F.
Salt Spray	14.0	Equipment identified as Category X, no test performed.
Magnetic Effect	15.0	Equipment is Category A.

**FIGURE A-2 CONCLUDED**

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Power Input	16.0	Equipment tested to Categories E and B.
Voltage Spike	17.0	Equipment tested to Category A.
Audio Frequency Susceptibility	18.0	Equipment tested to Category A.
Induced Signal Susceptibility	19.0	Equipment tested to Category Z.
Radio Frequency Susceptibility	20.0	Equipment tested for conducted susceptibility to Category R and for radiated susceptibility to Category R and pulse test to Category R.
Radio Frequency Emission	21.0	Equipment tested to Category H.
Lightning Induced Transient Susceptibility	22.0	Equipment tested to pin test waveform set B, level 3, and cable bundle test waveform set D, Level 4.
Lightning Direct Effects	23.0	Equipment identified as Category X, no test performed.
Icing	24.0	Equipment identified as Category X, no test performed.
Electrostatic Discharge	25.0	Equipment tested to Category A.
Other Tests		Fire resistance tests were conducted in accordance with Federal Aviation Regulations Part 25, Appendix F.

REMARKS
<ul style="list-style-type: none"> <li>- Tests were conducted at Environmental Laboratories, Inc.</li> <li>- In the fluids susceptibility tests, material specimens were used</li> <li>- In the power input test, equipment was tested to subparagraph 16.5.1.4 b, requirement for equipment with digital circuits.</li> </ul>

PRODUCT LABEL TEST IDENT

DO-160D Env. Cat. A2WBABSWLXXXXXXXXAAAAVWPLB3D4XXA