

## ENVIRONMENTAL QUALIFICATION FORM

**NOMENCLATURE:** 406 MHz ELT Antenna

**TYPE/MODEL/PART NO.:** AV-402

**TSO NO.:** C126b

**MANUFACTURE'S SPECIFICATION AND/OR OTHER APPLICABLE SPECIFICATION:** AV-401 PRODUCT DRAWING PACKAGE AND ELECTRICAL TEST SPECIFICATION

**MANUFACTURER:** RAMI (R.A. MILLER INDUSTRIES INC.)

**ADDRESS:** 14500 168TH AVE., GRAND HAVEN, MI 49417

**REVISION & CHANGE NUMBER OF DO-160:** "G", SC-135

**DATE TESTED:** June 2014

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TESTS CONDUCTED</b>
Temperature and Altitude	4.0	Equipment tested to Category [D2]
Low Temperature	4.5.1	
High Temperature	4.5.2 & 4.5.3	
In-Flight Loss of Cooling	4.5.4	Equipment Identified as Category X
Altitude	4.6.1	
Decompression	4.6.2	N/A
Overpressure	4.6.3	N/A
Temperature Variation	5.0	Equipment tested to Category S2
Humidity	6.0	Equipment tested to Category C
Operational Shock and Crash Safety	7.0	Equipment tested to Category A
Vibration	8.0	Equipment tested to Category U, (fuselage)

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TESTS CONDUCTED</b>
Explosion	9.0	Equipment identified as Category X. No tests performed in this section
Waterproofness	10.0	Equipment tested to Category S
Fluids Susceptibility	11.0	Equipment identified as Category X. No tests performed in this section
Sand and Dust	12.0	Equipment tested to Category D
Fungus	13.0	Equipment identified as Category X. No tests performed in this section
Salt Fog	14.0	Equipment tested to Category S
Magnetic Effect	15.0	Equipment identified as Category X. No tests performed in this section
Power Input	16.0	Equipment identified as Category X. No tests performed in this section
Voltage Spike	17.0	Equipment identified as Category X. No tests performed in this section
Audio Frequency Susceptibility	18.0	Equipment identified as Category X. No tests performed in this section
Induced Signal Susceptibility	19.0	Equipment identified as Category X. No tests performed in this section
Radio Frequency Susceptibility	20.0	Equipment identified as Category X. No tests performed in this section
Radio Frequency Emission	21.0	Equipment identified as Category X. No test performed in this section
Lighting Induced Transient Susceptibility	22.0	Equipment identified as Category X. No tests performed in this section
Lighting Direct Effects	23.0	Equipment identified as Category X. No tests performed in this section

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Icing	24.0	Equipment identified as Category A.
Electrostatic Discharge	25.0	Equipment identified as Category X. No tests performed in this section
Fire, Flammability	26.0	Equipment identified as Category X. No tests performed in this section

Other Tests:

The "Flame Test" of RTCA / DO-204A, paragraph 2.3.7.1 was performed in lieu of the "Fire, Flammability" test of RTCA / DO-160G.

**REMARKS:** \_\_\_\_\_  
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