

Aircraft Shielding Effectiveness Test

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Submitted by

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JUSTIFICATION:

This Experimental License is required to support shielding effectiveness testing, which is required to ensure that the component under test meets CFR 14 Part 25.1317, FAA regulatory compliance standards, and requirements IAW FAA AC 20-158 and 20-158A.

OBJECTIVE:

The primary objective of the test is to measure aircraft shielding effectiveness over the frequency range defined for the HIRF environment in effort to ensure that equipment, systems, and their intended installations, were designed and qualified to the appropriate test levels with respect to the assumed attenuation provided by the airframe. The test will be conducted at the Boeing Facility located Victorville, CA, NL 34-35-16; WL 117-22-31

TEST OVERVIEW:

Frequency range: 30 MHz – 18 GHz

Max. Externally Radiated Power: 10uW

Emission: 1K00N0N

Tx Equipment: Standard Network Analyzer

Antenna: Standard directional antenna applicable to frequency band.

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