

3 June 2026

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Frequency Management Services
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Subject: Description of operations and Stop Buzzer

Purpose of STA:

The purpose of this STA is to conduct ground Electromagnetic Compatibility (EMC) testing of RF systems integrated into the Boeing MH-139 helicopter prior to delivery to the USAF. Modeling and previous EMC/EMI testing shows a possibility of harmonic/cosite interference issues between RF systems on the specific frequencies listed in the application. This testing will be used to validate findings and develop mitigation plans.

Reason for STA:

The STA is required to support testing on frequencies not normally allocated for The Boeing Company's use, but the radio system must be tested prior to the aircrafts delivery to the customer to meet contractual obligations and safety of flight requirements.

The radio listed in the application may be used to communicate with Civil Law Enforcement Agencies Maritime vessels to support interoperability between agencies on maritime channels. The frequency band may also be employed by the aircrew to support emergency, search and recovery, and safety of life communications between the aircraft and maritime vessels. To ensure EMC compatibility with other aircraft systems EMC testing is required on specific frequencies that may pose harmonic interference. Since the radio is not 47 CFR Part 80 certified an experimental license for this test is required.

Technical Data:

Frequency Data	
Transmit Frequency Band	135MHz - 870Mhz (specific frequencies indicated in STA)
Transmitter Data	
Transmitter Model	RT-7000
Transmitter Manufacturer	Motorola/Cobham
Transmitter Power Output	10 Watts
Antenna Data	
Power Output ERP	30 Watts ERP
Ant Manufacturer	Cobham
Ant Model	CI295-300
Ant Gain	3dBi
Emission Data	
Emission Designator	8K10F1E 20K0F1E

Stop Buzzer Information:

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