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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 in conformity to the MCEB 225-399.9MHz allotment plan (MCEB-M-002-12), 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 by the USAF to be used to communicate with any other station in the time of a National Emergency only. To ensure EMC compatibility with other aircraft systems, *if* this frequency band is ever put to use, EMC testing is required on specific frequencies that may pose harmonic interference. Since the radio is not 47 CFR Part 97 certified an experimental license for this test is required.

Technical Data:

Frequency Data	
Transmit Frequency Band	230MHz-394MHz (specific frequency indicated in STA)
Transmitter Data	
Transmitter Model	AN/ARC-210 RT-2036(C)
Transmitter Manufacturer	Rockwell Collins
Transmitter Power Output	23 Watts
Antenna Data	
Power Output ERP	23 Watts ERP
Ant Manufacturer	Cooper
Ant Model	21-150-22
Ant Gain	0dBi
Emission Data	
Emission Designator	7K00A3E 18K2F3E

Department of War Contract Info:

Organization: USAF
Contract Number: FA8739-18-C-5030
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