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Subject: Purpose of STA, Description of operation and USAF Contract info

Purpose of STA:

The purpose of this STA is to line of site (LOS) communication checks with the ARC-210 radio systems integrated into the Boeing MH-139 helicopter prior to delivery to the USAF. Testing on these systems will validate operational characteristics of the radio and integrated systems to while in flight. This testing will be used to identify issues and develop mitigation plans.

Description of operation:

Line of site testing will be conducted within a 100 Mile (160.9km) of Summit Airport (KEYY) Middletown, DE. The maximum flight level will be 6,500 feet. Test flights will be conducted at various times during the day and will be limited in duration. We expect no more than 4 to 6 test flights throughout the duration of the STA.

Technical Data:

Transmitter Data	
Transmitter Model	AN/ARC-210 RT-2036(C)
Transmitter Manufacturer	Rockwell Collins
Transmitter Power Output	23 Watts/15 Watts depending on frequency and emission
Antenna Data	
Power Output ERP	36.3 Watts/23.77 Watts depending on frequency and emission
Ant Manufacturer	Cooper
Ant Model	21-150-22
Ant Gain	2dBi
Emission Data	
Emission Designator(s) dependent on frequency	18K2F3E 17K2F3E 11K0F3E 7K00A3E 6K00A3E

Department of War Contract Info:

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