

Raytheon Missile Systems
Experimental STA Application
File Number: 0309-EX-ST-2019

Explanation of Experiment and Need for STA

Raytheon Missile Systems (Raytheon) builds a number of advance missile systems for the US Department of Defense and other approved customers. Those systems routinely incorporate advanced data links and additional communications technology to perform in accordance with customer requirements.

This application is for the expedited testing of a data link that is incorporated into a Raytheon product.

Need for STA

Raytheon is seeking an STA because the proposed testing is expected to last from mid-March through mid-May as Raytheon works with its customers to fine-tune the operation of a data link that is embedded into the system under development.

The short duration of the testing is the reason that an STA is appropriate in this instance.

Technical Synopsis

Spectrum Required: 2210-2254 MHz
Time of use: 1-2 hours per day
Area of Operation: remote desert area in Arizona, ground testing
Emission designator: 6M60F1D

Description of Operations

Raytheon is working on one of its missile systems. This testing, to be conducted with personnel from Yuma Proving Grounds will advance the development of this data link to send telemetry data that carries vital information regarding the performance of the system.

Time of Use

The estimated time of use is only 1-2 hours per day. The use of the spectrum is limited because there is additional work needed on the system apart from the spectrum testing.

Area of Operation

The proposed operations are set at Yuma Proving Ground. In this case, an FCC STA is appropriate because Raytheon will be operating its radios, and as the controlling entity, it needs an authorization for the operations.

Directional Antenna

The operations of the directional antenna will be tested on the ground. The details of the antenna operation are contained in the Quasonix specs. There is no change the normal operations. If operations need to be limited to a particular azimuth, the applicant will work with that limitation.

Stop Buzzer

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Conclusion

Raytheon is seeking an STA for short-term, ground-based testing of a data link that will carry flight health information when the whole system is being tested. Raytheon will control the operations and needs this authorization to have that authority. The area of operations is limited and remote. The time of use is very limited.

Should there be any questions about these proposed operations, please contact Anne E. Cortez, WFS, 520-360-0925 or alc@conspecinternational.com.