

Raytheon Request for FCC Special Temporary Authorization (STA)

STA File Number 0826-EX-ST-2013

STA Confirmation Number EL732029

Sept 10, 2013

FAA Coordination Serial Number: NG T130300

Purpose of Operation:

Frequency authorization is being requested for the period of September 10, 2013 – February 10, 2014 in the 9.15 GHz band in order to demonstrate the operation of a prototype radar system. This radar demonstration is intended to show maturity of key technologies designed and developed by Raytheon. It is essential that radar performance be demonstrated in a real-time radar environment similar to the proposed radar system. Testing in real-time environments with realistic target profiles is needed to fully prepare for a demonstration to the customer.

STA Explanation:

The Low Power Radar (LPR) is planned to be operated at the Raytheon Facilities in McKinney, TX and Garland, TX over the period of Sept. 10, 2013 – Feb. 10, 2014. The purpose of this request for Special Temporary Authorization is to demonstrate the maturity of our system concept and technology to the customer.

Test Summary:

An experimental license is required to demonstrate the operation of a prototype radar system to our customer. Prototype radar demonstration validation trials and dry runs are planned to start on July 8, 2013.

The system will transmit pulsed Frequency Modulated (Chirp) waveforms. For all waveform types, the maximum pulse duration is 55 μ s and the maximum duty factor is 22%. It is expected that the radar will be operated 24 hours a day, seven days per week for the duration of the testing. This operation time applies to the McKinney and Garland, TX test facilities.