

Raytheon Request for FCC Experimental License

File Number 0391-EX-PL-2014

Confirmation Number EL302715

May 09, 2014

FAA Coordination Serial Number: NG T130300

Purpose of Operation:

Frequency authorization is being requested for the period of May 9, 2014 – May 10, 2015 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.

Test Summary:

An experimental license is required to demonstrate the operation of a prototype radar system to our customer. The system will transmit pulsed Frequency Modulated (Chirp) waveforms. For all waveform types, the maximum pulse duration is 55µs 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