

From: David Townson

To: Behnam Ghaffari

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Subject: FCC File No. 0126-EX-PL-2008

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Message:

McKinney, TX Outdoor Antenna Test Ranges

The antenna/radome outdoor test facility is located on a 50-acre tract at Raytheon's McKinney, Texas site. The facility consists of four towers and a range-staging building. The towers are used to form seven-far field antenna test ranges suitable for testing small airborne structures to large ground-based systems weighing up to 30,000 pounds. There is a model range off the NW corner of the Range Staging Building. Ranges provide frequency coverage from 0.1 to 18 GHz, and 26.5 to 40 GHz and range in length from 10 feet (smallest adjustable) to 1600 feet. The ranges are used to characterize antennas and radomes used on military systems and performing boresight alignment on those systems. Commercial test equipment from Agilent and MI Technologies (formerly Scientific-Atlanta) is used for the instrumentation of the test ranges. Some of the antennas tested are for very broadband systems and must be characterized over extended frequency ranges. This is a general purpose test facility and supports testing of both production and development programs for the military. There is a continuing long term need for this facility to support these efforts which is why a 60 month license is requested.

ERP:

2000 - 2025 MHz mW/40.5dBm

2110 - 2200 MHz mW/41.2dBm

2450 - 2483 MHz mW/42.2dBm

2500 - 2655 MHz mW/42.8dBm

3650 - 4200 MHz mW/46.8dBm

4500 - 4800 MHz mW/47.9dBm

4940 - 4990 MHz mW/48.3dBm

10550 - 10600 MHz mW/51.8dBm

10700 - 12750 MHz mW/53.4dBm

14200 - 14400 MHz mW/51.5dBm