

Form 442 Confirmation Number: EL8060  
Form 442 File Number: 0115-EX-PL-2000

Narrative Statement:

Description of operations:

This application is intended to apply for the test frequencies of 5.15 to 5.25 GHz to develop new antennas for commercial markets. These frequencies will be emitted as single CW frequency or swept frequency CW with no modulation. It is our understanding that these frequencies have been redesignated as the Uni band and it will not interfere with Aeronautical Radionavigation.

This license is for an outdoor RF antenna test range. The source antenna is mounted on the side of a two-story building which is stationary and pointed downward at an angle of approximately 30 degrees toward the antenna under test (AUT). The AUT is mounted on a 10' rotating pedestal located in an open field. There are residential dwellings located behind the AUT approximately 350' not in the beam of the source antenna.

A Hewlett Packard 8753E Vector Network Analyzer provides the RF source and has a maximum output power of 10 mW. A HP 85030 Linear Amplifier may be used, it has a maximum output power of 1W. If we cannot be approved for 200 mW output power, please reduce our power to an acceptable level rather than rejecting our application completely.

Below is a view from the roof of our facility showing the source antenna and the pedestal.

