

## **Experiment Description**

An Experimental STA is requested in order to support a demonstration of ancillary voice communications in addition to the Internet data capability of our satellite communications equipment offering.

The demonstration will take place April 27<sup>th</sup>, 2011 at the FCC headquarters building in Washington, D.C. and will be attended by a number of Sr. Commission staff.

The equipment to be used in support of the demonstration, for which this Experimental STA is requested, is a femto-cell device which has been approved for commercial operation in Europe and Japan. The device allows regular cell phones to communicate over an IP data link when normal cellular telephone service is not available, i.e. inside buildings or in rural or remote areas with poor or non-existent cellular service.

The device is capable of operation on a number of different frequency bands. Band 1 is 1920 – 1980 MHz, band 2 is 1850 – 1910 MHz, and band 5 is 824 – 849 MHz. The actual frequency used will be limited to a single 5 MHz wide channel within one of the above bands that can be selected at the time of the demo. Currently, the band of operation planned for the demo is band 1.

The device operates at very low power, with a maximum output of 10 dBm into a 0 dBi (-2.14 dBd) gain Omni directional antenna. The output power is variable and is reduced to less than the maximum when in communicating with cellular handsets near by.

The point of contact to cease transmissions is Daryl Hunter and the phone number is 1-760-476-2583.