

## **Supplement to Adaptrum Inc. Experimental License Application 0459-EX-PL-2008**

This application is for a continuation of experiments on cognitive radios for use in broadcast television spectrum as proposed in Docket 04-186. A previous STA has been granted to Adaptrum for this purpose: 0241-EX-ST-2008 WD9XIC.

Adaptrum agrees with the need for coordination with SBE for any combination of parameters that exceeds what has been authorized in the First Report and Order in Docket 04-186 for equipment subject to normal equipment authorization with the understanding that coordination is a “two way street”.

Thus Adaptrum will work with the SBE coordinator to develop a sequence of experiments that increases mutual confidence in the lack of harmful interference from these experiments. Similarly, we expect SBE to be open minded and cooperative in agreeing to frequencies and powers that make such experiments meaningful. Coordination is not intended to be a continuation of the public comment part of ongoing rulemakings. Thus objecting to frequencies that are not usable in practice in the experimental area would not be constructive. Also incremental increases in power from previous successful experiments should also be given positive review and reasonable consideration.

Adaptrum requests that test parameters that would be eligible for normal equipment authorization under the new rules can be tested without SBE coordination.

The transmitted signal in these experiments will be OFDM, similar in many ways to WiMAX. Adaptrum intends to experiment with multiple bandwidths in order to control harmful interference to adjacent channel weak TV signals. The maximum bandwidth that will be used will be 5.5 MHz.