

FCC Form 442
Exhibit I

Pursuant to Section 5.3(i) of the Commission's rules, Wireless Beehive Manufacturing LLC ("Applicant") requests an Experimental license for two (2) years to it to engage in technical demonstrations of equipment and to test equipment in connection with regulatory approval of such equipment. 47 C.F.R. §§ 5.3(d) & (g).

Applicant seeks an experimental license in order to test a device that will allow the Applicant to determine the availability of UHF broadcast channels that can eventually be licensed by the Commission to a party that would make efficient use of this unused spectrum; particularly in providing broadband services; and to demonstrate that broadband service on these unused portions of the UHF broadcast channels can be achieved without interfering with any adjacent broadcast operations. The device will rely upon an internet connection and GPS receiver to determine unused portion of whitespace spectrum in a particular area. In addition, Applicant will be utilizing an 8 MHz bandwidth system to provide broadband internet service to rural areas during the testing period in order to demonstrate that no interference occurs to adjacent broadcast operations. The location of the initial testing will be in the Erda, UT area (Applicant will operate within a 15 mile (25 km) radius around the following coordinates: 40-38-40.32N; 112-16-33.5W). The device is the equipment for which the Applicant will ultimately seek to obtain Part 15 certification. The device will be at a fixed location at ground level and any such transmissions will be within the 15 mile radius of the device location. The testing will not interfere with any licensee's operations on UHF Channels 17 and 18 within the proposed testing area. If interference does occur, Applicant will cease operations immediately.

Proposed Experimentation

The primary purpose for the Applicant's testing is to determine which UHF broadcast channels are not being utilized in the proposed testing area and to demonstrate that broadband service can be offered in rural areas on unused broadcast spectrum without interference. Applicant's ultimate goal is to work with the Commission in order to license unused broadcast spectrum to parties that can provide broadband services over this spectrum. By permitting Applicant to achieve this objective, it will enhance the Commission's goal of promoting the most efficient use of spectrum. In addition, because broadband service is simply not available in large parts of rural America, the proposed experimentation could ultimately lead to dramatically improving broadband penetration in rural areas.

Objectives to be Accomplished

An Experimental License will allow the Applicant to accomplish the following objectives:

- Identify which UHF broadcast channels are not being utilized in the proposed testing area.
- Demonstrate that broadband service can be offered on unused broadcast spectrum without impacting broadcast operations.

Contribution to the Expansion of the Radio Art

As the Commission has acknowledged, the experimental license program provides a means by which new technologies and concepts can be developed and evaluated. It also provides for limited market studies and technical demonstrations, as well as other research and study activities. In this instance, Applicant will ultimately be providing a service that will benefit the public.