

FCC Form 442
Exhibit I

Pursuant to Section 5.3(i) of the Commission's rules, Horizon Wi-Com, LLC ("Applicant") requests an Experimental license for ninety (90) days to allow it to develop radio technique, equipment, operational data or engineering data relating to an existing radio service. 47 C.F.R. §§ 5.3(i).

Applicant, which plans on providing certain wireless broadband services in the near future, currently holds Wireless Communications Services ("WCS") licenses in several Major Economic Areas in the United States. In order to prepare for commercial launch, Applicant seeks an experimental license with respect to a Navini modem that currently is not type-accepted for use in the WCS spectrum band.¹ Nonetheless, the testing of the Navini modem in the WCS spectrum band will allow the Applicant to determine the effect of out of band emissions on the adjacent SDARS licensees. The Applicant will conduct initial testing of the Navini modem at several locations within its WCS market area in which it has authority to operate on the following spectrum: 2305-2310 MHz and 2350-2355 MHz (see Attachment A hereto which sets forth the licenses held by Horizon). Thus, it will be utilizing antenna site locations that Horizon already has authorization to transmit (see Exhibit III which sets forth the site locations). The maximum power conducted for the subject experimental testing will not exceed 250 milliwatts, which does not exceed the current power limits for WCS spectrum. The Navini modem will be at a fixed location at ground level and any such transmissions will be within a 2 mile radius of the antenna site.

Proposed Experimentation

The Applicant's testing will occur in a controlled environment and will be for a short time (less than an hour at a time). Applicant will not be offering commercial service to any subscribers during the testing period. The primary purpose for the testing is to determine potential interference with SDARS licensees and how to minimize the interference, if any.

Objectives to be Accomplished

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

- Identify effect of out of band emissions on the adjacent SDARS licensees.

¹ The Navini modem to be used during the testing is type accepted under ID PL6-2500-PCM19-R3 for use in the MMDS bands. In its current configuration it operates with out of band emission levels at channel edge of $43+10\text{LOG}(P)$. The emission designators for the device are 1M00F9W, 800KW7D and 1M6W7D. The Modulation is F9W and W7D. The power output is 23 to 25 dBm, depending on operating modulation.

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 offering a wireless broadband communications service that will benefit the public.

Attachment A – Licenses

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Call Sign	Market	MEA	MHz
KNLB315	Washington	MEA05	2305-2310 MHz/ 2350-2355 MHz
KNLB210	Boston	MEA01	2305-2310 MHz/ 2350-2355 MHz
KNLB313	Buffalo	MEA03	2305-2310 MHz/ 2350-2355 MHz
KNLB312	New York City	MEA02	2305-2310 MHz/ 2350-2355 MHz
KNLB318	Cincinnati-Dayton	MEA13	2305-2310 MHz/ 2350-2355 MHz
KNLB314	Philadelphia	MEA04	2305-2310 MHz/ 2350-2355 MHz
KNLB317	Pittsburgh	MEA12	2305-2310 MHz/ 2350-2355 MHz
KNLB316	Richmond	MEA06	2305-2310 MHz/ 2350-2355 MHz