

From: Matt Larsen

To: Behnam Ghaffari

Date: November 30, 2017

Subject: FCC File No. 0790-EX-CN-2017

Message:

Inventive Wireless of Nebraska, LLC File No. 0790-EX-CN-2017
Correspondence Reference No. 39625

The information below responds to the Commission's November 8, 2017 email request for information.

Our EXPERIMENTAL licenses are granted for a short period of time for the purpose of innovation and experimentation. Using 1000 devices is more like providing a service. Please in great detail state your purpose for using 1000 units. What is the lowest number of units that you can use without compromising the outcome?

Response: As part of this Amendment and in response to the Commission's inquiry, Inventive Wireless of Nebraska, LLC dba Vistabeam ("Vistabeam"), is hereby deleting the Lingle and Gering sites from the trial and reducing the maximum number of end users for the market trial to 250. With these changes, Vistabeam believes that it will have the ability to conduct a meaningful trial that will assess a variety of deployment conditions to allow Vistabeam to build a model for each type of environment that it will see.

In addition, Vistabeam wants to determine the appropriate oversubscription ratio when there is a heavy load on the access points. The best way to test that out is to put a lot of customers on the system and see how real-world usage impacts its performance. Vistabeam believes that 40 to 80 customers on a sector is needed to establish the heavy load conditions needed to determine the maximum oversubscription ratio.

Vistabeam plans to have multiple sectors at each of the remaining two towers so it can test for co-channel interference and work out the implementation processes for channel assignments. Vistabeam wants to put multiple sectors up and work out the processes to make sure that it is able to design the system to maximize the use of available spectrum, reuse channels and avoid interference.

All of the data Vistabeam will collect as a result of the trial will inform its decisions on the equipment choice, vendors and PAL/GAA functionality. Customers are needed in order to help Vistabeam build a viable financial model for PAL bids.

Thus, with the reduced number of sites and end users, Vistabeam believes that it can conduct a meaningful trial. Vistabeam further believes that 250 end users is the lowest number of units that it can use without compromising the outcome and risking unreliable data that could prove harmful as Vistabeam builds its business model, selects equipment and determines pricing.