

ALASCOM, INC.

Response to Item 7

This application requests the grant of experimental authorization to enable Alascom, Inc. to engage in experiments to test RF equipment, RF propagation, new and developing technologies, and enhancements to existing technologies and services. The application proposes the use of a variety of modulation techniques and power levels in the 3.5GHz band. Depending on the experiment in question, the tests may be conducted in numerous and varied locations, and using resources from the multiple Alascom locations in the state of Alaska, thereby necessitating that the experimental license be granted for statewide use.

Specific components of the testing are expected to include procedures to:

- 1) Evaluate the performance of pre-WiMAX and WiMAX (IEEE 802.16) systems for point-to-multipoint configured services in line-of-sight and non-line-of-sight environments.
- 2) Correlate the actual performance of various systems with predictive software-based algorithms using multiple trial base locations and remote sites to assess effects of propagation and interference.
- 3) Assess the effectiveness of various technologies and designs in providing high speed data, Internet access, and voice services to typical customer locations.
- 4) Evaluate the installation, provisioning, monitoring and maintenance of systems tested.

Alascom is constantly engaged in the process of developing and testing the suitability of technologies for new services to ensure that innovative and competitive services can be commercially deployed at the earliest time. In order to enable Alascom to engage in the experimental testing required to bring new and innovative services to the public, Alascom submits that grant of this application would serve the public interest, convenience, and necessity.