

From: Keith Nettleton

To: Behnam Ghaffari

Date: November 25, 2009

Subject: FCC File No. 0405-EX-PL-2009

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Message:

Mr. Ghaffari,

Per your instructions, I have been attempting to coordinate the use of the frequency band 1210-1390 MHz with the Great Lakes (AGL) FAA Regional Office. I have left messages with three individuals and spoken with one individual in that office. So far, none have been able to provide assistance. Do you have a specific point of contact in that office that can assist me in this matter?

Also, as a point of clarification, the equipment for which I am seeking a license is not a radar. I have included below answers to the questions you raised in your correspondence.

Peak envelope power (PEP): - 27.8 dbm

Type of antenna: Omni directional

Transmit antenna gain: + 4 dbi Typical

Elevation above sea level of the antenna site: 833 ft

Height above ground of the focal point of the antenna: 12 ft

Antenna polarization: Vertical

The azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.: Omni directional

Pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment: This radio (it is not a radar) broadcasts a signal that is direct sequence spread spectrum running at 32 mega chips per second. The transmission length ranges from 228 microseconds to 15 milliseconds depending on the message length. The transmission start times are dependent on arrival of traffic to send and should be considered random. The radio operates similarly to an 802.11 modem.

Pulse width: The pulse width of the chips in the spreading sequence is 31.25 nanoseconds. These transmission length can vary from 228 microseconds to 15 milliseconds.

Equipment nomenclatures: SpearNet radio

Whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking: Not capable

Radius of operations if appropriate: Not appropriate

Detailed description of the proposed operation to include any technical parameters that will be altered during operations.

No technical parameters will be altered during operations. The proposed operation consists of transferring data files, voice communications, and video transfers between up to five locations.

