

From: Brett Waller

To: Anthony Serafini

Date: August 02, 2011

Subject:

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Message:

This system simulates a communications satellite that allows for voice and text communication amongst multiple handsets. The system is strictly groundbased and does not utilize any operational satellites. This system will not be the subject of the testing, but will be utilized to simulate an RF environment. It will be utilized on a sporadic basis (i.e. may be used for several days out of one month and may not be utilized again for several months). Upon initial filing this application was brought to the attention of LightSquared and Inmarsat. An agreement was made for the UML to reprogram the simulator channels to the specific uplink frequencies of 1644.7188 and 1645.3438 MHz and downlink frequencies of 1543.2188 and 1543.8438 MHz. It was also requested that this system is operated below at an EIRP density of -30 dBW/4 kHz. This system will be operated at the lowest power setting, which consists of an EIRP of approximately -50 dBm. The initial application has been amended to reflect the above frequencies and power level. This will meet LightSquared and Inmarsat's requirement. It is also agreed that if the operation of this system causes harmful interference, the UML will immediately cease operation. Additionally it is agreed that the UML will notify LightSquared and Inmarsat prior to commencing experimental operations and will provide a point of contact within the UML.