

From: John Muratore

To: Jose Trevino

Date: October 16, 2009

Subject: FCC file number 0372-EX-PL-2009

Message:

Thank you for your rapid attention to this application. With regard to your questions i have updated the application on the website with additional information on the application and additional attachments to resolve the deficiencies that you identified. In regard to the specific questions:

1. emission information - i have updated the application. For reference the modulation type is 20M4W7D with a bandwidth of a 10.23 MHz chip rate.

2. with regard to contract information i have attached an amended government project attachment. For reference the contracts and points of contact are :

NASA Marshall Space Flight Center (contact: Dr Charles Laymon 256-961-7885
charles.laymon@nasa.gov NASA contract # NNM09AB71P) and NOAA Oak Ridge (contact: Mr Ed
Dumas 865-576-3500 ed.dumas@noaa.gov

3. with regard to the calculations regarding the -140 dbm/24 MHz reqt i have attached a PDF file to the application with link margins and i have attached an additional pdf file with the hangar layout. i believe that this shows that we meet the requirements.

4. with regard to the equipment to be tested i have submitted an attachment with updated description of research project. In specific it states On the aircraft we are testing software that is acquiring GPS time, position and velocity information from a Garmin 530 GPS Receiver and a National Instruments PXI-6682 GPS receiver. We need this re-radiator because it is not always possible to roll the aircraft out of the hangar to test because the aircraft may be undergoing maintenance or weather may be unsuitable.

5. with regard to the stop buzzer information, i have provided that in an attachment to the application. in specific i have provided the following information:

In the event of suspected interference from the University of Tennessee Space Institute GPS re-radiator contact any of the following individuals to terminate transmissions:

Mr Greg Heatherly
Chief of Maintenance ? UTSI Flight Research
Cell ? 931-607-7637
Office ? 931-393-7415

Mr Shane Porter ? Airframe and Powerplant Mechanic
C615-347-0641

Mr John Muratore
Research Associate Professor
Cell ? 832-387-0788

Dr Stephen Corda
Chair, Aviation Systems and Flight Research Department
Cell 661-331-2664

I hope that this meets your needs to complete the application. If I am still deficient please accept my apology and point me towards whatever else i need to do.

thank you for your attention.

john muratore