

January 5, 2001

Federal Communications Commission  
Experimental Licensing Branch  
MS 13001E1  
445 12 Street, S.W.  
Washington, DC 20554

Subject: Annual Progress Report for File Number 0273-EX-PL-1999

Gentlemen:

Orbital Sciences Corporation through its Transportation Management Systems Division (Orbital TMS) submits herein the annual progress report for Call Sign WB2XGM, File Number 0273-EX-PL-1999. This communications equipment is located at 7160 Riverwood Drive, Columbia Md. 21046, in accordance with the license granted to Orbital TMS for the express purpose of Experimental Communications.

#### Station License WB2XGM

The following frequencies are used expressly for this purpose:

<u>Frequency</u>	<u>Class</u>	<u>Emission Designator</u>	<u>Authorized Power</u>
451.8 Mhz	FX	XXX	75W (ERP)
451.8 Mhz	MO	XXX	40W (ERP)
452.7 Mhz	FX	XXX	75W (ERP)
452.8 Mhz	FX	XXX	75W (ERP)
456.8 Mhz	FX	XXX	75W (ERP)
456.8 Mhz	MO	XXX	40W (ERP)
457.7 Mhz	MO	XXX	40W (ERP)
457.8 Mhz	MO	XXX	40W (ERP)
806-824 Mhz	MO	XXX	30W (ERP)
851-869 Mhz	FX	XXX	160W (ERP)
896-902 Mhz	MO	XXX	30W (ERP)
935-941 Mhz	FX	XXX	160W (ERP)

Locations of the above listed frequencies are confined to within the facility located at 7160 Riverwood Drive, Columbia, Maryland.

Propagation characteristics of the above listed frequencies are confined to within R.F. Loads or minimal area testing via vehicle. This minimal area encompasses approximately 13 circular miles of the TMS Lab location antennas. (The minimal area is a predetermined route for test purposes.)

For customer demonstration and acceptance of systems, the 13 circular miles is adequate.

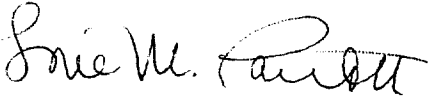
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Testing is performed via R.F. transmission so as to test the impact of environmental surroundings (I.E. Cosmic and man-made noise) upon the transmitted signals as well as data error rates. Types of testing performed are Voice and Data transmission, with voice testing at minimal usage. This involves all frequencies authorized per license. Prototype testing is performed within the confines of the facility, however, if mobile operational testing is required, and then the prototypes are confined to within the 13-mile limit of the facility. The number of prototypes used to facilitate data and voice operational tests are four for any listed frequency at any given time.

Should you have any questions or require additional information please do not hesitate to contact the undersigned at (443) 259-7310.

Sincerely,



Lorie M. Parrott  
Director, Contracts  
Orbital TMS

Cc: M. Kilpatrick (Orbital TMS)