

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WB2XGM

(Call Sign)

XD FX MO

(Class of Station)

0014-EX-RR-2005

(File Number)

NAME Orbital Sciences Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(d, h) of the Commission's Rules

Station Locations

(1) US; MOBILE: nationwide

Frequency Information

US; MOBILE: nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.8 MHz	FX	XXX	75 W (ERP)	
451.8 MHz	MO	XXX	40 W (ERP)	
452.7 MHz	FX	XXX	75 W (ERP)	
452.8 MHz	FX	XXX	75 W (ERP)	

This authorization effective February 01, 2005 and
will expire 3:00 A.M. EST February 01, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

US; MOBILE: nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.8 MHz	FX	XXX	75 W (ERP)	
456.8 MHz	MO	XXX	40 W (ERP)	
457.7 MHz	MO	XXX	40 W (ERP)	
457.8 MHz	MO	XXX	40 W (ERP)	
806-824 MHz	MO	XXX	30 W (ERP)	
851-869 MHz	FX	XXX	160 W (ERP)	
896-902 MHz	MO	XXX	30 W (ERP)	
935-941 MHz	FX	XXX	160 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) Licensee is authorized to use various emissions and bandwidths during the experiment.

Special Conditions:

- (4) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (5) Operation on commercial radio services frequency(ies) requires consent of licensee(s).