

Orbital Sciences Corporation
21839 Atlantic Blvd.
Dulles, VA 20166
August 28, 2006

Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

Re: Experimental STA for Orbital Sciences Corporation

Dear Sir or Madam:

This letter requests an experimental license for Orbital Sciences Corporation (Orbital) explicitly for the purpose of satellite antenna testing. In November of 2006, Orbital will begin communications testing of between seven and nine antennas for satellites to be launched in year 2008. The mission of the satellites is to replenish in part or in full satellites from Plane A and D of ORBCOMM's "Constellation" series Low Earth Orbit spacecraft. The replacement spacecraft will also add the functionality of the "Automatic Identification System" for use by the United States Coast Guard.

Approval of this experimental license will allow for timely verification of the antenna performance. Orbital does not anticipate any additional coordination to be required, other than those already existing, for the frequency points of interest. The parameters of the RF transmissions for this STA are provided in the attachment.

Please call me (703-948-8751) if you have any questions concerning this license. Thank you in advance for your prompt attention to this matter.

Sincerely,

Pete Collis
Orbital Sciences Corporation
Space Systems Group

Attachment:

Experimental License for Orbital Sciences Corporation

Purpose of Operation: Satellite Antenna Testing

Dates of Operation: Effective between November 1, 2006 and November 1, 2008

Station Locations: Dulles, VA. NL 39-00-47; WL 77-25-46

Beginning of Life Radio Frequency Parameters for each antenna (Dulles, VA):

Data Points Frequency (MHz)	Modulation Type	Maximum Effective Radiated Power (ERP)
137.0	Continuous wave (CW)	-10 dBW
137.5	Continuous wave (CW)	-10 dBW
138.0	Continuous wave (CW)	-10 dBW
148.0	Continuous wave (CW)	-10 dBW
149.0	Continuous wave (CW)	-10 dBW
150.0	Continuous wave (CW)	-10 dBW
162.0	Continuous wave (CW)	-10 dBW

Orbital Sciences is aware that other stations may be licensed on these frequencies, and if any interference occurs, transmissions associated with this application will be immediately terminated.