

0238-EX-ST-2000

SCANNED

~~JUN 20 2000~~ *Last in crash*

Orbital Sciences Corporation  
20301 Century Blvd.  
Germantown, MD 20874  
June 21, 2000

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

Re: Experimental STA for Orbital Sciences Corporation

Dear Sir or Madam:

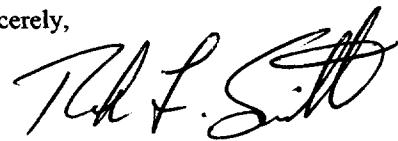
This letter requests a special temporary authority (STA) for Orbital Sciences Corporation (Orbital) explicitly for the purposes of satellites integration and testing. In July of this year, Orbital will begin communications testing of two satellites to be launched in year 2000 and 2001. The mission of the satellites is to provide direct broadcast video communications. In any case, Orbital has already obtained or are in the process of obtaining FCC authorization to transmit at radio frequencies (RF) in the final orbit location and configuration associated with each satellite.

*Report*  
*DAT 35?*  
*100?*  
*Report*

Approval of this STA will allow timely verification of the spacecrafts' command, control, and telemetry sub-system, as well as audio/video communications payload, if any. Orbital does not anticipate any additional coordination to be required, other than those already existing, for the frequency bands of interest. The parameters of the RF transmissions for this STA are provided in the attachment. It should be noted that additional shielding of emissions is expected since testing will be performed inside Orbital structures, shielded rooms, and/or anechoic chambers.

Please call me (301/444-3925) if you have any questions concerning this STA. Thank you in advance for your prompt attention to this matter.

Sincerely,



Rick L. Smith  
Orbital Sciences Corporation  
RF Communications Group

Attachment:

Special Temporary Authority for Orbital Sciences Corporation

Purpose of Operation: Satellites integration and test  
Dates of Operation: Effective between July 15, 2000 and January 15, 2001  
Station Locations: Germantown, MD. NL: 39-11-27 : WL 77-15-45

Beginning of Life Radio Frequency Parameters (Germantown, MD):

Frequency Span, Null-Null Bandwidth (GHz)	Modulation Type	Maximum Effective Isotropic Radiated Power (EIRP)
11.69 - 12.03	Continuous wave (CW)	-10 dBW
11.69 - 11.71	Frequency Shift Keying with Ranging Tones	-50 dBW
17.29 - 17.63	Continuous wave (CW)	-90 dBW

PK-1425, 101  
23  
NF: FX-300T

(EIRP)  
100mW (6)  
10mW (6.1)  
1nW (60)

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.

*inside building*

*East Japan HD TV*