


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Vertex 1892 – Herndon

1. Applicant

Name:	The Boeing Company	Phone Number:	866-248-1493
DBA Name:		Fax Number:	206-544-6592
Street:	Attn PO Box 3707	E-Mail:	bob.douglass@boeing.com
City:	Seattle	State:	WA
Country:	USA	Zipcode:	98124 -2207
Attention:	Mr Robert B Douglass		

"30 days"



GRANTED
International Bureau

File # SES-STA-20080529-00685
Call Sign N/A **Grant Date** 6/30/2008
(or other identifier)
Term Dates
From 6/30/2008 **To:** 7/30/2008
Approved: Cleane M. Lott

2. Contact	
Name: Ron Center	Phone Number: 206-544-6583
Company: The Boeing Company	Fax Number: 206-544-6592
Street: P.O. Box 3707	E-Mail: ronald.e.center@boeing.com
City: Seattle	State: WA
Country: USA	Zipcode: 98125 -2207
Attention: Freq Mgt Svcs, M/C	Relationship: Same
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date 06/16/2008	
7. City Herndon	8. Latitude (dd mm ss.s h) 38 57 32.0 N

9. State VA	10. Longitude (dd mm ss.s h) 77 22 32.0 W
11. Please supply any need attachments. Attachment 1: VSAT STA Requirement Attachment 2: Antenna Range Test Attachment 3: Felony Disclosure	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">This Special Temporary Authority is requested to support a demonstration of satellite systems to a potential customer.</div>	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Robert B Douglass	15. Title of Person Signing Manager, Spectrum Management
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

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Special Temporary Authority for VSAT Terminal Operations.

5/29/2008

Submitted by

Ronald E Center
The Boeing Company
Frequency Management Services MC: 2T-22
P.O. Box 3707
Seattle, WA 98124-2207
206-544-6583 Office
206-544-6592 Fax
866-248-1493 Toll Free

This STA is required to support temporary use of a Ku-band VSAT terminal using leased satellite service from a U.S. licensed provider, via satellite Galaxy-26.

The earth terminal to be used is a Vertex .89 Meter dish, Model 1892. The system will be operated from the Boeing facility building rooftop, located at 460 Herndon Pkwy, Herndon VA. The specifications of the operation are listed below. Included is a demonstration of compliance with the 2 degree rule, an antenna specification sheet, and a RADHAZ study. The antenna range test report is provided as a separate attachment.

General Information:

Site Location: 38-57-32N; 77-22-32W NAD 83

Ground Elevation AMSL: 113 Meters

Satellites: Galaxy26, located at 93 Degrees West

Period: June 16, 2008 through July 16, 2008.

Antenna Data

Quantity: 1

Antenna Manufacturer: General Dynamics

Model: Vertex 1892

Antenna Size: .89 Meters

Antenna Transmit Gain: 40.5 dBi at 14250 MHz

Antenna Receive Gain: 38.9 dBi at 11950 MHz

Special Temporary Authority for VSAT Terminal Operations.

Antenna Power Limits

Antenna Height Above Ground Level: 11.14 Meters

Antenna Height Above Sea Level: 124.14 Meters

Building Height: 9.14 Meter

Total Input Power at Antenna Flange: 6 Watts

Antenna Height Above Rooftop: 2 Meters

Total EIRP for all Carriers: 48.3 dBW

Frequency Limits

Satellite Arc, Eastern Limit: 93 Degrees West

Satellite Arc, Western Limit: 93 Degrees West

Antenna Elevation Angle, Eastern Limit: 42.05 Degrees

Antenna Elevation Angle, Western Limit: 42.05 Degrees

Earth Station Azimuth Limit, Eastern Limit: 203.97 Degrees True

Earth Station Azimuth Limit, Western Limit: 203.97 Degrees True

Maximum EIRP density towards the Horizon (dBW/4KHz): -32.2 dBW/4KHz
(based on minimum elevation angle of 42.05 degrees)

Particulars of Operation

Frequency Band of Operation:

Transmit: 14000 – 14500 MHz Receive: 11700 – 12200 MHz

Antenna Polarization: Linear

Band GHz	T/R Mode	Emission	Max EIRP dBW	Max EIRP Density dBW/4KHz
11.7 – 12.2	R	2M77G7W	0	0
14.0 – 14.5	T	2M77G7W	48.3 dBW	19.9 dBW/4KHz