The Boeing Company

Approved by OMB 3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter 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

E-Mail:

bob.douglass@boeing.com

PO Box 3707

City:

Seattle

State:

WA

Country:

USA

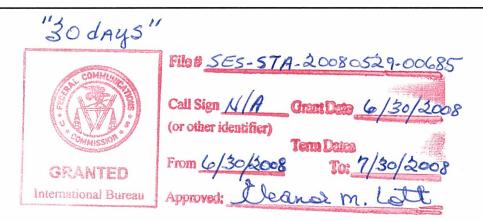
Zipcode:

98124

-2207

Attention:

Mr Robert B Douglass



2. Contact						
N	Vame:	Ron Center	Phone Nun	nber:	206-544	-6583
C	Company:	The Boeing Company	Fax Numbe	er:	206-544	-6592
S	treet:	P.O. Box 3707	E-Mail:		ronald.e.	center@boeing.com
C	City:	Seattle	State:		WA	
C	Country:	USA	Zipcode:		98125	-2207
A	Attention:	Freq Mgt Svcs, M/C	Relationshi	ip:	Same	
application.	Please enter o	ated to an application filed with the Conly one.) or or Submission ID	Commission,	enter either the file nur	nber or th	e IB Submission ID of the related
		with this application? attach FCC Form 159. If No, indicate	eate reason fo	or fee exemption (see 47	CFRSe	ction 1 1114)
-		Noncommercial educational li		or recomputed (See 17	c.i .ic.bc	ouon 1.1111).
-	ease explain)					
4b. Fee Class	sification C	GX - Fixed Satellite Transmit/Recei	ive Earth Sta	ation		
5. Type Requ	ıest					
O Use Prio	or to Grant	O Change S	Station Loca	tion	Other	
6. Requested 06/16/	Use Prior D 2008	ate			·····	
7. CityHernd	lon		I I	. Latitude ld mm ss.s h) 38 57	32.0	N

9. State VA	10. Longitude
7. State V/1	(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 bo	ox, please go to the end of the form to view it in its entirety.)
This Special Temporary Authority is requested	to support a demonstration of satellite
systems to a potential customer.	
13. By checking Yes, the undersigned certifies that neither applicant nor	
subject to a denial of Federal benefits that includes FCC benefits pursua	int to Section 5301 of the Anti–Drug Act
of 1988, 21 U.S.C. Section 862, because of a conviction for possession	
See 47 CFR 1.2002(b) for the meaning of "party to the application	n" for these purposes.
14. Name of Person Signing	15. Title of Person Signing
Robert B Douglass	Manager, Spectrum Management
WILLFUL FALSE STATEMENTS MADE ON THIS FORM (U.S. Code, Title 18, Section 1001), AND/OR REV	
	FORFEITURE (U.S. Code, Title 47, Section 503).
(0.5. Code, 11de 47, 50cdoli 512(a)(1)), 111D/OK	Tord Efford (o.s. code, file 47, section 505).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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

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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.

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

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 dBW Max EIRP Density dBW/4KHz
11.7 - 12.2	R	2M77G7W 0	0	0
14.0 - 14.5		2M77G7W 48.3 dBW	48.3 dBW	19.9 dBW/4KHz