

Administrative Information

Summary

File Number:	SES-LIC-20140203-00030	Date Filed:	2/3/14
Call Sign:	E140009		
Status:	Filed – awaiting fee verification	Status Date:	2/3/14
Last Action:		Action Date:	
AFPN Date:		ATPN Date:	
Begin Date:		Expiration Date:	
Description			

Ku-band 3.8m R/T earth station terminal

Applicant/Licensee

FRN: 0001646694

Attn. Phone: 806-742-2209 x
NNN-NNN-NNNN xNNN

Contact Name:

Attn. Fax: 806-742-1274
NNN-NNN-NNNN xNNN

Company: Texas Tech University

Attn. E-mail: ron.trice@ttu.edu

Street 1: Box 42161

Attention: Ron Trice

Street 2: 17th Street & Indiana Ave

City, State, Zip: Lubbock, TX 79409-2161 USA

Corp. Phone:

Corp. Fax:

Corp. E-mail:

Contact

FRN: 0001646694
Contact Name: Ron Trice
Company:
Street 1: Box 42161
Street 2: 17th Street & Indiana Ave
City, State, Zip: Lubbock, TX 79409-2161 USA
Corp. Phone:
Corp. Fax:
Corp. E-mail:

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Qualification Information

No.	Question	Answer
1.	Are you applying for a NEW earth station license or registration (i.e., one that has not been previously licensed or registered?)	Yes
2.	Will your proposed earth station be a fixed earth station or temporary-fixed earth station (not part of a VSAT network) that will operate only in the Fixed Satellite Service?	FES
3.	Which band will your proposed earth station be operating in?	KUBAND
5.	Will you operate your proposed earth station ONLY with U.S.-licensed or Permitted List geostationary satellites (within the parameters specified on the Permitted List)?	Yes
6.	Does your proposed earth station and its operation conform to all technical, procedural, and operational requirements of the FCC Rules and Regulations (47 CFR) and therefore requires NO waivers or exemptions from any of the Commission's Rules?	Yes
7.	Does your proposed antenna(s) comply with the antenna gain standard specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurements?	Yes
8.	Does your proposed earth station operation conform with all routine power and power density rules contained in Sections 25.211 and 25.212?	Yes
9.	Can you certify that FAA notification is not required under 47 CFR Part 17 and 47 CFR Section 25.113(c)?	Yes
11.	Do you certify that Commission grant of any proposal in this application will NOT have a significant environmental impact as defined by 47 CFR Section 1.1307?	Yes
12.	Are you asking for a:	TR
13.	Has a Radiation Hazard Study (refer to OET bulletin 65) been completed and will this Radiation Hazard Study be attached as an exhibit to this application?	Yes
14.	Do you certify that you are not a foreign government or a representative of a foreign government?	Yes
15.	Do you certify that you are not an alien, or the representative of an alien?	Yes
16.	Do you certify that you are not a corporation organized under the laws of any foreign government?	Yes
17.	Do you certify that you are not a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	Yes
18.	Do you certify that you are not a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	Yes
19.	Do you certify that the applicant or any party to this application has NOT had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license or construction permit denied by the Commission?	Yes

20. Do you certify that neither you nor any party to this application, nor any party directly or indirectly controlling your company, has EVER been convicted of a felony by any state or federal court? Yes
21. Do you certify that NO court has finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? Yes
22. Do you certify that neither you nor any person directly or indirectly controlling the applicant, is currently a party in any pending matter referred to in the preceding two items? Yes
23. Does the undersigned certify that neither the 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 Section 1.2002(b) for the meaning 'party to the application' for these purposes. Yes

Station Information

Call Sign	E140009
Nature of Service	Fixed Satellite Service
Status	Non-Common Carrier
Satellite Orbit Type	GSO
Class of Earth Station	Fixed Earth Station
Filing Classification	Application for License of New Station
Satellite Name	PERMITTED LIST
Frequency Band(s)	KU Band
Type of Earth Station Facility	Transmit/Receive
PN Description	

A fixed Ku-band earth station will be utilized to provide satellite distribution of university radio and television programs & content, along with digital data services, to regional downlinks in the US. Domestic Ku-band (ALSAT) satellites will be used for these services.

Site Information

Site ID: One **Contact Name:** Ron Trice **Contact Phone:**
NNN-NNN-NNNN xNNN

806-742-2209

Area of Operation: TEXAS
Street 1: 17th Street and Indiana Avenue **State:** TEXAS
Street 2: Texas Tech Campus **City:** Lubbock
County: Lubbock **Zip Code:** 79409

	Deg.	Min.	Sec.	Hem.	NAD Indicator:
Latitude:	33	34	52.5	N	NAD 83
Longitude:	101	53	22.0	W	

Elevation (meters): 986.33

Antenna Information

Site ID	Antenna ID	ASR No
One	1385	
Quantity	Manufacturer	Model
1	Prodelin	1385-350
Max Antenna Hgt AGL (m)	Max Antenna Hgt AMSL (m)	Structure Hgt AGL (m)
5.0	991.3	0.0
Total Input Pwr at Antenna Flange (W)		Total EIRP – All Carriers (dBW)
125.0		74.17

T/R Mode	Antenna Gain	dBi at GHZ
T	53.2	14.25
T/R Mode	Antenna Gain	dBi at GHZ
R	51.7	12

Frequency Information

Select **Antenna ID**
 1385
Freq Lower (MHz/GHz)
 14000
Emission Designator
 250KG7W
Antenna Polarization
 (H/V)Horizontal and Vertical

Select **Antenna ID**
 1385
Freq Lower (MHz/GHz)
 11700
Emission Designator
 250KG7W
Antenna Polarization
 (H/V)Horizontal and Vertical

Select **Antenna ID**
 1385
Freq Lower (MHz/GHz)
 14000
Emission Designator
 36M0G7W
Antenna Polarization
 (H/V)Horizontal and Vertical

Select **Antenna ID**
 1385
Freq Lower (MHz/GHz)

T/R Mode
 T
Freq Upper (MHz/GHz) **Freq Unit**
 14500 MHz
Describe Modulation & Services
 Digital PSK modulation of audio and video content
Max EIRP per Carrier (dBW) **Max EIRP Density per Carrier (dBW/4kHz)**
 52.55 34.59

T/R Mode
 R
Freq Upper (MHz/GHz) **Freq Unit**
 12200 MHz
Describe Modulation & Services
 Digital PSK modulation of audio and video content
Max EIRP per Carrier (dBW) **Max EIRP Density per Carrier (dBW/4kHz)**

T/R Mode
 T
Freq Upper (MHz/GHz) **Freq Unit**
 14500 MHz
Describe Modulation & Services
 Digital PSK modulation of audio and video content
Max EIRP per Carrier (dBW) **Max EIRP Density per Carrier (dBW/4kHz)**
 74.13 34.59

T/R Mode
 R
Freq Upper (MHz/GHz) **Freq Unit**

Frequency Coordination Information

<input type="checkbox"/>	Select	Antenna ID	Trans/Rec Mode	Lower Freq Limit (MHz)	Upper Freq Limit (MHz)
		1385	Transmit	14000	14500
		Satellite Arc East Limit (Deg)		Satellite Arc West Limit (Deg)	
		37.5	W	148.0	W
		Ant Elev Angle E (Deg)	Azimuth Angle E (Deg)	Ant Elev Angle W (Deg)	Azimuth Angle W (Deg)
		12.7	104.8	27.6	242.0
		Max EIRP Density to Horizon (dBW/4KHz)			
		-15.14			
<input type="checkbox"/>	Select	Antenna ID	Trans/Rec Mode	Lower Freq Limit (MHz)	Upper Freq Limit (MHz)
		1385	Receive	11700	12200
		Satellite Arc East Limit (Deg)		Satellite Arc West Limit (Deg)	
		37.5	W	148.0	W
		Ant Elev Angle E (Deg)	Azimuth Angle E (Deg)	Ant Elev Angle W (Deg)	Azimuth Angle W (Deg)
		12.7	104.8	27.6	242.0
		Max EIRP Density to Horizon (dBW/4KHz)			

Points of Communication Information

Select Site Id

Point of Communication

One

PERMITTED LIST

Certification Information

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

Type of Applicant
Governmental Entity

Applicant Other Text
Non Commercial / Exempt Entity
If other, describe the type of applicant.

Signer Name
Ron Trice

Signer Title
Director Of Engineering

Signature

Date Signed (XX/XX/XXXX)
02/03/2014

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Attachment Information

Select	Attachment Type	File Name	Date Uploaded
<input type="checkbox"/>	Radiation Hazard Study	Rad-Haz.pdf	02/03/2014

