

Administrative Information

Summary

File Number:	SES-LIC-20140911-00708	Date Filed:	9/11/14
Call Sign:	E140093		
Status:	Filed – awaiting fee verification	Status Date:	9/11/14
Last Action:		Action Date:	
AFPN Date:		ATPN Date:	
Begin Date:		Expiration Date:	
Description			

4.6m Ku band temporary-fixed antenna

Applicant/Licensee

FRN: 0002149359

Attn. Phone: 703-413-5970 x
NNN-NNN-NNNN xNNN

Contact Name:

Attn. Fax: 703-413-5908
NNN-NNN-NNNN xNNN

Company: Lockheed Martin Corporation

Attn. E-mail: jennifer.warren@lmco.com

Street 1: 2121 Crystal Drive

Attention: Jennifer Warren

Street 2: Suite 100

City, State, Zip: Arlington, VA 22202- USA

Corp. Phone:

Corp. Fax:

Corp. E-mail:

Contact

FRN: 0002149359
Contact Name: Jennifer Warren
Company:
Street 1: 2121 Crystal Drive
Street 2: Suite 100
City, State, Zip: Arlington, VA 22202- USA
Corp. Phone:
Corp. Fax:
Corp. E-mail:

Contact Attn.: Jennifer Warren
Contact Attn. Phone: 703-413-5970 x
NNN-NNN-NNNN xNNN
Contact Attn. Fax: 703-413-5908
NNN-NNN-NNNN xNNN
Contact Attn. E-mail: jennifer.warren@lmco.com

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?	TFE
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	E140093
Nature of Service	Fixed Satellite Service
Status	Non-Common Carrier
Satellite Orbit Type	GSO
Class of Earth Station	Temporary 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	

Application for a 4.6 meter Ku-Band Temporary-Fixed Earth Station communicating with Permitted List Satellites

Site Information

Site ID: 1

Contact Name: Paul Kendrick

Contact Phone:
NNN-NNN-NNNN xNNN

805-503-4257

Area of Operation: Various

Street 1:

State: N/A

Street 2:

City:

County:

Zip Code:

Latitude: Deg. Min. Sec. Hem. NAD Indicator:
Latitude Degree

Longitude:

N/A

Elevation (meters):

Antenna Information

Site ID	Antenna ID	ASR No	
1	Ant1		
Quantity	Manufacturer	Model	Antenna Size (m)
1	ASC SIGNAL CORPORATION	ESA46AA-1	4.6
Max Antenna Hgt AGL (m)	Max Antenna Hgt AMSL (m)	Structure Hgt AGL (m)	Max Antenna Hgt Above Roof (m)
Total Input Pwr at Antenna Flange (W)		Total EIRP – All Carriers (dBW)	
40.0		70.0	

T/R Mode	Antenna Gain	dB_i at GHZ
T	54.0	14.25
T/R Mode	Antenna Gain	dB_i at GHZ
R	53.0	11.95

Frequency Information

Select	Antenna ID	T/R Mode	
<input type="checkbox"/>	Ant1	T	
	Freq Lower (MHz/GHz)	Freq Upper (MHz/GHz)	Freq Unit
	14000	14500	MHz
	Emission Designator	Describe Modulation & Services	
	36M0G1D	BPSK, FEC rate 1/3, Data rate various	
	Antenna Polarization	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
	(H/V)Horizontal and Vertical	70.0	40.0
Select	Antenna ID	T/R Mode	
<input type="checkbox"/>	Ant1	R	
	Freq Lower (MHz/GHz)	Freq Upper (MHz/GHz)	Freq Unit
	11700	12200	MHz
	Emission Designator	Describe Modulation & Services	
	36M0G1D	Digital, Data rate Various	
	Antenna Polarization	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
	(H/V)Horizontal and Vertical		

Frequency Coordination Information

Select	Antenna ID	Trans/Rec Mode	Lower Freq Limit (MHz)	Upper Freq Limit (MHz)
<input type="checkbox"/>	Ant1	Transmit		
	Satellite Arc East Limit (Deg)		Satellite Arc West Limit (Deg)	
			N/A	
	Ant Elev Angle E (Deg)	Azimuth Angle E (Deg)	Ant Elev Angle W (Deg)	Azimuth Angle W (Deg)
	Max EIRP Density to Horizon (dBW/4KHz)			

Points of Communication Information

Select Site Id

1

Point of Communication

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

Corporation

Applicant Other Text

If other, describe the type of applicant.

Signer Name

Scott Kotler

Signer Title

Director, Technical Regulatory Affairs

Signature

Date Signed (XX/XX/XXXX)

09/11/2014

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Attachment Information

Select	Attachment Type	File Name	Date Uploaded
<input type="checkbox"/>	Radiation Hazard Study	Rad_Haz_Report_4_6m.	09/05/2014

