Date & Time Filed: Nov 28 2011 4:35:14:410PM File Number: SES-MOD-INTR2011-04990

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Modification to add SAT-242 modem module

1–8. Legal Name of Applicant

Name: LXE Inc. **Phone Number:** 44(0)1684278610

DBA Fax Number: 44(0)1684 278611

Name:

Street: 125 Technology Pkwy **E–Mail:** hatherall.j@emsglobaltracking.

com

City: Norcross State: GA

Country: USA Zipcode: 30092 -

Attention: John Hatherall

9–16. Name of Contact Representative

Name: Stephanie Roy Phone Number: 202–429–6278

Company: Steptoe & Johnson LLP Fax Number: 202–429–3902

Street: 1330 Connecticut Ave. NW E-Mail: sroy@steptoe.com

City: Washington State: DC

Country: USA **Zipcode:** 20036–1795

Attention: Relationship: Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

b b3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

17c. Is a fee submitted with this application If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption (s	see 47 C.F.R.Section 1.1114).							
Governmental Entity Noncomme		,							
Other(please explain):									
17d.									
Fee Classification CGB – Mobile Satellite	Earth Stations								
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	application enter both fields, if this filing is a							
(a) Call sign of station: E020074	(a) Date pending application was filed: (b) File number:								
E020074		SESMOD2010052800661							

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide of	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose 2	2. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER ser facilities:	vice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a Pu	blic Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all app	licable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: 1525.0000 Frequency Upper: 1645.000	(Please specify additional frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
e. Geostationary Space Station
f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.		Radia			ard	
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronateronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	•	N/A
32. Is the applicant 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?	0	Yes	0	No	•	N/A

O Yes O No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

33. Is the applicant 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?	O Yes O	No 👩 N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	o Yes	No
36. Has the applicant or any party to this application or amendment 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? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	⊚ No
38. Has any court 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? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. 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.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	Yes	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, v coordinated or is in the process of coordinating the space station? United Kingdom	what administr	ation has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete descript box, please go to the end of the form to view it in its entirety.)	ion does not a	ppear in this

LXE, Inc. ('LXE') provides notice of the addition of a new terminal type (i.e., the SAT-

10

Description

242) to its authorization.

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	⊗ A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O _B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c
	Eng Certificate

CERTIFICATION

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.

44. Applicant is a (an): (Choose the button next to a	oplicable response.)	
O Individual		
 Unincorporated Association 		
O Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
John Hatherall	Senior Manager	
>	<u>'</u>	
(U.S. Code, Title 18, Section	DE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONME 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION 12(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	ENT

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: 1 E5. Call Sign: E020074

E2: Contact Name N/A E6. Phone N/A

Number:

E3. Street: Inmarsat D (D+ E7. City: N/A

and IsatM2M) half

duplex

METs throughout E8. County: N/A

U.S.

E4. State E9. Zip Code N/A

E10. Area of Operation: N/A

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	O Yes	O No	● N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yes	•	No
POINTS OF COMMUNICATION			
Satellite Name: ISAT List ISAT List If you selected OTHER, please enter the following:			

E21. Common Na	ame:					E22. ITU	Name:					
E23. Orbit Location:							E24. Country:					
	COMMUNICAT	ION (D	estination	Points)								
E25. Site Identific	er:											
E26. Common Na	ame:					E27. Cou	ntry:					
ANTENNA						•						
Site ID	E28. Antenna Id	E29.	Quantity	E30. Manuf	facturer	E31. Moo	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)		
1	7	1		Spectro Contro		SAT – 24	2	0.08		4.0 dBi at 1.52	5	
1	7	1		Spectro Contro		SAT – 24	2	0.08		4.0 dBi at 1.62	6	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)		Above nd Level ers)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximur Antenna Heigl Above Roofton (meters)	nt EIRP for al	
7	0.0/0.0	0.0		0.0		0.0		1.0		0.0	9.0	
FREQUENCY												
E28. Antenna Id	E43/44. Frequency Ba (MHz)		E45. T/R M	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density Carrier	

(dBW/4kHz)

7	1626.5000	T	Right Hand	2K50F1D	9.0	9.0
	1645.5000		Circular			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

2 Level FSK, 256Hz tone spacing, symbol rate 16 symbols/sec

7	1525.0000	R	Right Hand	2K50F1D	0.0	0.0
	1544.0000		Circular			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Continuous phase 32-ary FSK, 20Hz tone spacing, symbol rate 4 symbol/sec or Continuous-phase 32-ary FSK, 32Hz tone spacing, symbol rate

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
7	Geostationary	1525.0000 1544.0000	0.0/0.0	360.0	5.0	360.0	90.0	0.0

Geostationary	1525.0000 1544.0000	0.0/0.0	360.0	5.0	360.0	90.0	0.0
Geostationary	1525.0000 1544.0000	0.0/0.0	360.0	5.0	360.0	90.0	0.0
Geostationary	1626.5000 1645.5000	0.0/0.0	360.0	5.0	360.0	90.0	9.0
Geostationary	1626.5000 1645.5000	0.0/0.0	360.0	5.0	360.0	90.0	9.0
Geostationary	1626.5000 1645.5000	0.0/0.0	360.0	5.0	360.0	90.0	9.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the control callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

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