Date & Time Filed: Feb 9 2016 3:49:49:880PM File Number: SES-AMD-INTR2016-00408

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:

Brewster SES-15 Gateway Amendment

Name:	SES Americom, Inc.	Phone Number:	202-478-7144
DBA Name:		Fax Number:	202–478–7111
Street:	1129 20th Street NW	E-Mail:	nancy.eskenazi@ses.com
	Suite 1000		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 –
Attention:	Ms Nancy J Eskenazi		

9–16. Name of Contact Representative

Name: Petra Vorwig Phone Number: 202–478–7143

Company: SES Fax Number:

Street: 1129 20th St NW Suite 1000 E–Mail: Petra. Vorwig@ses.com

City: Washington State: DC

Country: USA Zipcode: 20036–

Attention: Relationship:

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 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114). Governmental Entity Noncommercial educational licensee Other(please explain):			
17d.			
Fee Classification CGX – Fixed Satellite Station	Transmit/Receive Earth		
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending apmodification please enter only the file number:	pplication enter both fields, if this filing is a	
(a) Call sign of station: E160015	(a) Date pending application was filed:01/27/2016	(b) File number: SESLIC2016012700098	

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	le 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	22. 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 facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a	Public Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	applicable 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: 18300 Frequency Upper: 30000	(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 & mp; countries)
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.		RadH			ster	
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	rout	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?	0	Yes	0	No	1 🗨	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.		•	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.		0	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? Gibraltar	vhat administr	ration has

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

SES Americom Inc. (SES Americom) amends its application for a license to operate a Ka-band earth station located in Brewster WA to add an emission designator and correct certain antenna parameters. SES Americom incorporates by reference the narrative and coordination report submitted in the underlying application.

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

CERTIFICATION

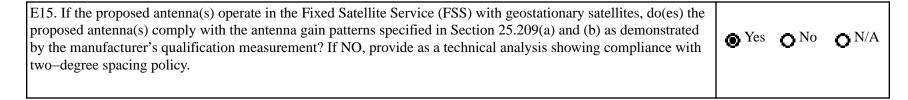
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The 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	ppheable response.)	
o Individual		
 Unincorporated Association 		
O Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
Petra Vorwig	Regulatory Counsel	
>		
	DE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT n 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).

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

Location of Earth St	ation Site				
E1: Site Identifier:	BrewsterSES15Gat eway	E5. Call Sign:			
E2: Contact Name	David Grooms	E6. Phone Number:	509-689-7250		
E3. Street:	66c Teleport Dr	E7. City:	Brewster		
		E8. County:	Okanogan		
E4. State	WA	E9. Zip Code	98812		
E10. Area of Operat	tion:	ALSAT			
E11. Latitude:	48 °8 '46.7 "N				
E12. Longitude:	119 °41 '37.0 "W				
E13. Lat/Lon Coord	linates are:	O NAD-27	● NAD-83	O N/A	
E14. Site Elevation	(AMSL):	382.11 meters			



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Se Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A		
E17. Is the facility operated by remote control? If YES, provide the loca point.	ntion and telephone number of the control	• Yes	•	No		
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	Yes	•	No		
E19. Is coordination with another country required? If YES, attach the recoordination contours as	O Yes	•	No			
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	Yes	٥	No		
POINTS OF COMMUNICATION		•				
Satellite Name: PERMITTED LIST If you selected OTHER, ple	ase enter the following:					
E21. Common Name: E22. ITU Name:						
E23. Orbit Location: E24. Country:						
Satellite Name: OTHER OTHER If you selected OTHER, please e	nter the following:					

E28. Antenna	E33/34.	E35. Above	E36. Above Sea	E37. Building	E38. Total	E39. Maximum	E40. Total
							<u> </u>
BrewsterSES15 Gateway	BRSES157m	1	SES	7.3 meter	7.3	64.6 dBi at 28	
BrewsterSES15 Gateway	BRSES157m	1	SES	7.3 meter	7.3	60.8 dBi at 18	
BrewsterSES15 Gateway	BRSES159m	1	SES	9.1 meter	9.1	66.4 dBi at 28	
BrewsterSES15 Gateway	BRSES159m	1	SES	9.1 meter	9.1	63.2 dBi at 18	
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
ANTENNA							
E26. Common N	ame:SES-15			E27. Country:	USA		
E25. Site Identifi	er: BrewsterSES1	5Gateway					
E26. Common N	ame:			E27. Country:	USA		
E25. Site Identifi	er: BrewsterSES1	5Gateway					
		ION (Destination	Points)				
E23. Orbit Locat	ion: 129.15			E24. Country:	Gibraltar		
E21. Common N	ame: SES-15			E22. ITU Name:	: GIBSAT-129W-	В	

Id

Diameter

(meters)

Minor/Major

Ground Level

(meters)

Level(meters)

Height Above

Ground Level

(meters)

Input Power at

antenna flange

(Watts)

Antenna Height EIRP for al

carriers(dBW)

Above Rooftop

(meters)

BRSES159m	0.0/0.0	12.0	394.11	0.0		371.5	0.0	92.1
BRSES157m	0.0/0.0	10.0	392.11	0.0		371.5	0.0	90.3
FREQUENCY		•	•	•			•	•
E28. Antenna Id	E43/44. Frequency Ba (MHz)	E45. T/R <br< td=""><td>>Mode</td><td>E46. Antenna Polarization(H, L,R)</td><td></td><td>mission ator</td><td>E48. Maximum EIRP per Carr (dBW)</td><td></td></br<>	>Mode	E46. Antenna Polarization(H, L,R)		mission ator	E48. Maximum EIRP per Carr (dBW)	
BRSES159m	18300 18800	R		Horizontal and Vertical	100KG	7W	0.0	0.0
BRSES159m	18300	R		Horizontal and	250MC		0.0	0.0
	18800			Vertical				
E50. Modulati entirety.)	on and Services	(If the comple	ete descriptio	on does not appea	r in this box	t, please go t	to the end of the f	orm to view it in its
digital	data and voi	ce						
BRSES159m	19700	R		Horizontal and	100KG	7111	0.0	0.0

E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
digital da	ta and voice					
BRSES159m	19700 20200	R	Horizontal and Vertical	250MG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
BRSES159m	27500 28600	T	Horizontal and Vertical	100KG7W	55.4	41.4
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
BRSES159m	27500 28600	Т	Horizontal and Vertical	250MG7W	89.4	41.4

E50. Modulation entirety.)	and Services (If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
	ta and voice					
BRSES159m	29250 30000	Т	Horizontal and Vertical	100KG7W	55.4	41.4
entirety.) digital da	ata and voice					
BRSES159m	29250 30000	Т	Horizontal and Vertical	250MG7W	89.4	41.4
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
BRSES157m	18300 18800	R	Horizontal and Vertical	100KG7W	0.0	0.0

E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
	ata and voice					
BRSES157m	18300 18800	R	Horizontal and Vertical	250MG7W	0.0	0.0
entirety.) digital da	ata and voice					
BRSES157m	19700 20200	R	Horizontal and Vertical	100KG7W	0.0	0.0
E50. Modulation entirety.) digital da	and Services (If the standard voice	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
BRSES157m	19700 20200	R	Horizontal and Vertical	250MG7W	0.0	0.0

E50. Modulation	and Carriage (If th	a complete description	on does not ennear in	this how places so to	the end of the form	to viou it in its
entirety.)	and services (II th	le complete description	on does not appear in	uns box, please go u	o the end of the form	to view it iii its
	ta and voice					
BRSES157m	27500 28600	Т	Horizontal and Vertical	100KG7W	53.6	39.6
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
BRSES157m	27500 28600	Т	Horizontal and Vertical	250MG7W	87.6	39.6
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
BRSES157m	29250 30000	Т	Horizontal and Vertical	100KG7W	53.6	39.6

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.)

digital data and voice

BRSES157m	29250	Т	Horizontal and	250MG7W	87.6	39.6
	30000		Vertical			

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.)

digital data and voice

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	Station Azimuth Angle	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)
BRSES159m	Geostationary	18300 18800	97.0/135.0	150.7	30.5	200.2	32.8	0.0
	Geostationary	19700 20200	97.0/135.0	150.7	30.5	200.2	32.8	0.0

	Geostationary	27500 28600	97.0/135.0	150.7	30.5	200.2	32.8	-29.02
	Geostationary	29250 30000	97.0/135.0	150.7	30.5	200.2	32.8	-29.02
BRSES157m	Geostationary	18300 18800	97.0/135.0	150.7	30.5	200.2	32.8	0.0
	Geostationary	19700 20200	97.0/135.0	150.7	30.5	200.2	32.8	0.0
	Geostationary	27500 28600	97.0/135.0	150.7	30.5	200.2	32.8	-29.02
	Geostationary	29250 30000	97.0/135.0	150.7	30.5	200.2	32.8	-29.02

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number					
NOTE: Please enter the callsign of the contro 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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