Date & Time Filed: Apr 27 2021 12:21:02:280PM File Number: SES-MOD-INTR2021-01707

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: E000696 NWM-016 MOD

Name:	SES Americom, Inc.	Phone Number:	202–478–7143
DBA Name:		Fax Number:	202–478–7111
Street:	1129 20th Street NW	E-Mail:	petra.vorwig@ses.com
	Suite 1000		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 –
Attention:	Ms Petra A Vorwig		

9–16. Name of Contact Representative

Name: Jack Narciso Phone Number: 609–480–5375

Company: SES Americom, INC. Fax Number:

Street: 4 Research Way E–Mail: jack.narciso@ses.com

City: Princeton State: NJ

Country: USA Zipcode: 08540-

Attention: Relationship: Engineer

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

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

•	159. If No, indicate reason for fee exemption (s	ee 47 C.F.R.Section 1.1114).		
Office Governmental Entity Office Noncommercial educational licensee Office Office (please explain):				
17d.				
Fee Classification CGX – Fixed Satellite Station	Γransmit/Receive Earth			
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:	pplication enter both fields, if this filing is a		
(a) Call sign of station: E000696	(a) Date pending application was filed:	(b) File number:		
L000070		SESMFS2013060400470		

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide 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
only one. Using U.S. licensed satellites
Common Carrier
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:
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 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: Frequency Upper: (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 & touther)
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.	_		~			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	ı rou	ite 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

 $lackbox{ Yes } lackbox{ No}$

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, what administration has coordinated or is in the process of coordinating the space station? Various – All foreign licensed C–band space stations on permitted list.

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. respectfully wishes to update emission designator lines 47, 48, and 49 for NWM-016 to include circular polarization. Point of communication list can be updated to only include the permitted list utilizing satellites SES-4, SES-6, and SES-14. Please to also update the antenna naming of 'NSS-EC-1' to 'NWM-006' for easier identification.

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

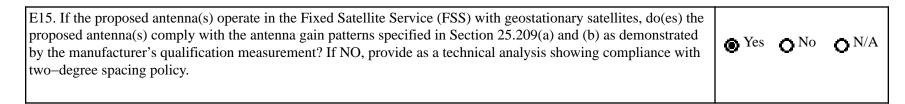
CERTIFICATION

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.

A4 Applicant is a (ap), (Chasse the butter post to appli	isahla mamanasa)	
44. Applicant is a (an): (Choose the button next to appli	cable response.)	
o Individual		
Unincorporated Association		
O Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
_		
45. Name of Person Signing	46. Title of Person Signing	
Jack Narciso	Engineer	
>		
	ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISO	
· · · · · · · · · · · · · · · · · · ·	001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION	1
(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 Sta	ation Site					
E1: Site Identifier:	Bristow	E5. Call Sign:	E000696			
E2: Contact Name	Scott Foster	E6. Phone Number:	703–367–7300			
E3. Street:	8031 Piney Branch Rd.	E7. City:	Bristow			
		E8. County:	Prince William			
E4. State	VA	E9. Zip Code	20136			
E10. Area of Operat	ion:	Northeast of US / ALSAT				
E11. Latitude:	38 °47 '3.2 "N					
E12. Longitude:	77 °34 '21.7 "W					
E13. Lat/Lon Coordinates are:		o NAD-27	● NAD-83	O N/A		
E14. Site Elevation (AMSL):		86.5 meters				



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	O Yes	O No	⊚ N/A		
E17. Is the facility operated by remote control? If YES, provide the loca point.	tion and telephone number of the control	O Yes	•	No	
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No	
E19. Is coordination with another country required? If YES, attach the n coordination contours as	O Yes	•	No		
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 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 I APPLICATION.	Yes	0	No		
POINTS OF COMMUNICATION		!		-	
Satellite Name: PERMITTED LIST If you selected OTHER, plea	ase enter the following:				
E21. Common Name:					
E23. Orbit Location: E24. Country:					
Satellite Name: PERMITTED LIST If you selected OTHER, plea	ase enter the following:				

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	-

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

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)
Bristow	NWM-016	1	GD SATCOM	11.1 KPC	11.0	51.6 dBi at 4
Bristow	NWM-016	1	GD SATCOM	11.1 KPC	11.0	55.5 dBi at 6
Bristow	NWM-017	1	GD SATCOM	9.0KPC	9.0	49.3 dBi at 4
Bristow	NWM-017	1	GD SATCOM	9.0KPC	9.0	53.5 dBi at 6
Bristow	NWM-006	1	Vertex	16.4 THC	16.4	55.1 dBi at 3.95
Bristow	NWM-006	1	Vertex	16.4 THC	16.4	58.9 dBi at 6.175

Id		E35. Above Ground Level (meters)	` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
NWM-016	0.0/0.0	12.8	99.3	0.0	500.0	0.0	82.5
NWM-017	0.0/0.0	9.2	95.7	0.0	500.0	0.0	80.5
NWM-006	0.0/0.0	17.0	103.5	0.0	450.0	0.0	85.4

FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
NWM-016	6725 6874	Т	Linear and Circular	100KN0N	66.9	52.9

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.)

CW Carrier

NWM-016	6725	6874	T	Linear and Circular	15K2G7W	58.7	52.9

E50. Modulation entirety.)	and Service	s (If th	ne complete description	on does not appear in	this box, please go t	to the end of the form	n to view it in its
Video and	Data						
NWM-016	6725	6874	Т	Linear and Circular	72M0G7W	82.5	39.9
E50. Modulation entirety.) Video and		s (If th	ne complete description	on does not appear in	this box, please go	to the end of the form	n to view it in its

FREQUENCY COORDINATION

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

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

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

43. Description. (Summarize the nature of the application and the services to be provided).

SES Americom, Inc. respectfully wishes to update emission designator lines 47, 48, and 49 for NWM-016 to include circular polarization. Point of communication list can be updated to only include the permitted list utilizing satellites SES-4, SES-6, and SES-14. Please to also update the antenna naming of 'NSS-EC-1' to 'NWM-006' for easier identification. All other emission designators and coordination will stay the same as identified in file # SESMFS2013060400470.