Approved by OMB 3060–0678

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APPLICATION FOR EARTH STATION AUTHORIZATIONS	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:

Authority to Operate a New Ku–Band Antenna (W	WB K-14)) at Woodbine,	MD
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–8. Legal Name of Ap	pplicant		
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. N	Name of Contact	Representative		
	Name:	George Varkey	Phone Number:	6099874327
	Company:	SES	Fax Number:	
	Street:	4 Research Way	E-Mail:	george.varkey@ses.com
	City:	Princeton	State:	NJ
	Country:	USA	Zipcode:	08540-
	Attention:		Relationship:	Engineer

CLASSIFICATION OF FILING

17. Choose the button next to the	b.
classification that applies to this filing for	b1. Application for License of New Station
both questions a. and b. Choose only one for 17a and only one for 17b.	 b2. Application for Registration of New Domestic Receive–Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration
a. al. Earth Station (N/A) a2. Space Station	 (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) 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 b10. Other (Please specify)
	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. b12. Application for Database Entry
	(N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction 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).
O Governmental Entity O Noncomme	rcial educational licensee
• Other(please explain):	
17d.	
Fee Classification BAX – Fixed Satellite T Station	ransmit/Receive Earth

18. If this filing is in reference to an	19. If this filing is an amendment to a pending ap	oplication enter:
existing station, enter:	(a) Date pending application was filed:	(b) File number of pending application:
(a) Call sign of station:		
Not Applicable	Not Applicable	Not Applicable

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e 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 s facilities:	ervice, 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 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:

TYPE OF STATION

a. Fixed Earth Static				
b. Temporary–Fixed	Earth Station			
c. 12/14 GHz VSAT	Network			
d. Mobile Earth Stat	ion			
N/A) e. Geostationary S	pace Station			
N/A) f. Non–Geostation	• •			
g. Other (please spe	cify)			
	ON FACILITY: Choose of	nly one		

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections	• Yes	● No
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	Rad. Haz	
modifications, or major amendments.		

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	O Yes	● No
30. Is the applicant an alien or the representative of an alien?	O Yes	O No ⊗ N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	O 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?	O Yes	O No ⊚ N/A

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?

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	lo 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

• Yes • No • N/A

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 attemptiing 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	O 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.	O 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.

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.



O No

Yes

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 satellites authorized on the 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. requests authority to operate a new 7.6m Ku-band antenna at Woodbine Maryland to provide service to the AMC-4 satellite and other satellites in the permitted list.

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.	О ^В
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 bu	atton next to applicable response	se.)		
O Individual				
• Unincorporated Association				
• Partnership				
• Corporation				
Governmental Entity				
Other (please specify)				
`				
45. Name of Person Signing		46. Title of Person	Signing	
Petra A. Vorwig		Senior Legal & Regulatory Counsel		
47. Please supply any need attachmen	ts.			
Attachment 1:	Attachment 2:		Attachment 3:	
WILLFUL FALSE STATE	MENTS MADE ON THIS FO	RM ARE PUNISHABI	LE BY FINE AND / OR IMPRISC	ONMENT
			NY STATION AUTHORIZATION	N
(U.S. Code, Title	e 47, Section 312(a)(1)), AND/	OR FORFEITURE (U.S	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:	WDB K14	E5. Call Sign:			
E2: Contact Name	Mark Rathert	E6. Phone Number:	410 870 7501		
E3. Street:	2323 Grimville Rd	E7. City:	Mt. Airy		
		E8. County:			
E4. State	MD	E9. Zip Code	21771		
E10. Area of Operat	tion:	ALSAT			
E11. Latitude:	39 °22 '38.8 "N				
E12. Longitude:	77 °4 '52.0 "W				
E13. Lat/Lon Coord	linates are:	O ^{NAD-27}	● NAD-83	O ^{N/A}	
E14. Site Elevation	(AMSL):	195.0 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.	• Yes	O ^{No}	O ^{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	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	۲	Yes	0 N	ło
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	0 N	10
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, hav 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.	^{'e}	Yes	O ^N	ło

Satellite Name: PERMITTED LIST | | If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
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 GainTransmint and/or Recieve (dBi at GHz)
WDB K14	WDB K14	1	ASC Signal	RF-4LPKU-76- 1-A	7.6	57.5 dBi at 11.725
						59.3 dBi at 14.275

Id	E33/34. Diameter Minor/Major (meters)			E37. Building Height Above Ground Level (meters)	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
WDB K14	0.0/0.0	8.4	203.4	0.0	390.0	0.0	85.0

FREQUENCY

 E43/44. Frequency Bands		E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)	L,R)		Carrier (dBW/4kHz)
			(UD W/4KHZ)

WDB K14	11450 11700	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete descrip	otion does not appear	in this box, please	go to the end of t	the form to view it in its
NULL						
WDB K14	11450 11700	R	Horizontal and Vertical	38M8G7W	0.0	0.0
E50. Modulation entirety.) Digital Da	``````````````````````````````````````					the form to view it in its
WDB K14	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.) Digital da		the complete descrip	ntion does not appear	in this box, please	go to the end of t	the form to view it in its

WDB K14	11450 11700	R	Horizontal and Vertical	745K0G7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If	the complete des	cription does not appear	in this box, please	go to the end of th	e form to view it in its
Didgtal Da	ata					
WDB K14	11700 12200	R	Horizontal and Vertical	100K0G7W	0.0	0.0
entirety.) Digital Da	ata					
WDB K14	13750 14000	Т	Horizontal and Vertical	38M8G7W	84.99	45.3
E50. Modulation entirety.) Digital Da		the complete des	cription does not appear	in this box, please	go to the end of th	e form to view it in its

WDB K14	14000 14500	Т	Horizontal and Vertical	36M0G7W	84.8	45.3
E50. Modulati entirety.)	ion and Services (I	f the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
Didgtal	Data					
WDB K14	13750 14000	Т	Horizontal and Vertical	72M0G7W	84.99	42.44
Didgital						
WDB K14	13750 14000	Т	Horizontal and Vertical	745KG7W	68.0	45.3
entirety.)		f the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
Didgital	Data					

WDB K14	14000 14500	Т	Horizontal and Vertical	N0N	51.3	51.3
E50. Modulation entirety.)	and Services (If th	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
Analog CW	carrier					
WDB K14	14000 14500	Т	Horizontal and Vertical	100K0G7W	59.3	45.3
E50. Modulation entirety.) Didgital D	Data	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
FREQUENCY CC	ORDINATION					

E28. Antenna Id		E52/53. Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
WDB K14	Geostationary	11450 11700	10.0/ 145.0	105.0	8.9	255.6	8.3	0.0

	Geostationary	11700 12200	10.0/ 145.0	105.0	8.9	255.6	8.3	0.0
	Geostationary	13750 14000	10.0/ 145.0	105.0	8.9	255.6	8.3	-7.97
	Geostationary	14000 14500	10.0/ 145.0	105.0	8.9	255.6	8.3	-7.97
REMOTE CC	DNTROL POIN	T LOCATION	1				1	
	ign ase enter the calls ich this application			ot the	E65. Phone Nu	umber		
E62. Street	Address			1				
E63. City	E63. City E67. County			ty		E64/68. State/Countr /	у	E66. Zip Code

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