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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY FCC 312 MAIN FORM

APPLICANT INFORMATION

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

South Mountain WAAS Antenna

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: Karis Hastings **Phone Number:** 202–599–0975

Company: Fax Number:

Street: 1317 F St, NW E-Mail: karis@satcomlaw.com

Suite 400

City: Washington State: DC

Country: USA Zipcode: 20004–

Attention: Relationship: Legal Counsel

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	b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	
	(N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration
a.	(N/A) b5. Assignment of License or Registration
a1. Earth Station	(N/A) b6. Transfer of Control of License or Registration
(N/A) a2. Space Station	(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 h 10. Other (Please specify)
	o 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.
	(N/A) b13. Amendment to a Pending Database Entry Application
	(N/A) b14. Modifiction of Database Entry
17c. Is a fee submitted with this applicati	on?
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 Noncomme	ercial educational licensee
Other(please explain):	
17d.	
Fee Classification BAX – Fixed Satellite T	ransmit/Receive Earth
Station	

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

TYPE OF SERVICE

THE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provid	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) Radionavigation Satellite Service	
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 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
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
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only 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.)
Not Applicable

ENVIRONMENTAL POLICY

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

environmental impact as defined by 47 CFR 1.1307? If YES, submit the

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.	RadHaz Report
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	utical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O 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 O 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 O N/A

have a significant

statement as required by Sections

O Yes

No

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	O Yes O No	
BASIC QUALIFICATIONS 35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?	• Vac	• No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	⊚ Yes	O 140
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.	• 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.	O 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	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.	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, we coordinated or is in the process of coordinating the space station? Gibraltar and other administrations of C-band permit		
	omplete desc	ription does
SES Americom, Inc. requests a license for a new antenna to communicate with payload on the SES-15 spacecraft and with C-band satellites on the permitters station list.		

Narrative

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.

♣ Individual				
Individual				
O Unincorporated Association				
Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing		46. Title of Person	Signing	
Petra Vorwig		Regulatory Couns	0 0	
L		L		
47. Please supply any need attachme	nts.			
Attachment 1:	Attachment 2:		Attachment 3:	
I				
L				
WILLFUL FALSE STAT	EMENTS MADE ON THIS FO	ORM ARE PUNISHAB	LE BY FINE AND / OR IMPRISO	NMENT

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: South Mountain E5. Call Sign:

E2: Contact Name David Coyle E6. Phone 805–386–2712

Number:

E3. Street: 5990 Solano Verde E7. City: Somis

Dr

E8. County: Ventura

E4. State CA E9. Zip Code 93066

E10. Area of Operation: ALSAT

E11. Latitude: 34 ° 19 '32.0 "N

E12. Longitude: 118 °59 '44.0 "W

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

E14. Site Elevation (AMSL): 312.0 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	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	⊚ Yes	• 0	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.	⊚ Yes	0	No
POINTS OF COMMUNICATION	<u>-</u>		
Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:OTHER OTHER	If you selected OTHER, please	enter the following:
E21. Common Name: SES-15		E22. ITU Name: GIBSAT-129W-B
E23. Orbit Location: 129W		E24. Country: Gibraltar

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		E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
South Mountain	SMWAAS	1	Vertex	11m	11.0	52.0 dBi at 4
						55.7 dBi at 6

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
SMWAAS	0.0/0.0	15.0	327.0	0.0	500.0	0.0	82.6

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
SMWAAS	1165.45 1187.45	R	Left and Right Circular	100KG7W	0.0	0.0
entirety.) digital da	ata					
SMWAAS	1165.45 1187.45	R	Left and Right Circular	100KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descript	tion does not appear ir	this box, please go	to the end of the form	to view it in its
digital da	ata					
SMWAAS	1165.45 1187.45	R	Left and Right Circular	100KG7W	0.0	0.0

E50. Modulation	and Services (If the	ne complete description	on does not annear in	this how please go to	o the end of the form	to view it in its
entirety.)	and services (if the	ic complete description	on does not appear in	tills box, picase go to	o the end of the form	to view it in its
digital da	ta					
SMWAAS	1165.45 1187.45	R	Left and Right Circular	30M0G7W	0.0	0.0
E50. Modulation entirety.)		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
SMWAAS	1564.42 1586.42	R	Left and Right Circular	100KG7W	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
digital da	ta					
SMWAAS	1564.42 1586.42	R	Left and Right Circular	30M0G7W	0.0	0.0

E50 M. J. J. J. C.	1 C (If d		1	41.5-1		
E50. Modulation	and Services (If the	ie complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
entirety.)						
digital da	ta					
SMWAAS	3700 4200	R	Left and Right Circular	100KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne 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 video					
SMWAAS	3700 4200	R	Left and Right Circular	30M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne 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 video					
SMWAAS	6425 6650.27	Т	Left and Right Circular	100KG7W	70.2	56.2

E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	n this box, please go	to the end of the form	to view it in its
digital da	nta						
SMWAAS	6425 6650.27		Т	Left and Right Circular	30M0G7W	95.7	56.2
E50. Modulation entirety.)		(II tr	e complete descripti	on does not appear n	i this box, please go	to the end of the form	to view it in its
SMWAAS	6679.42	6710	Т	Left and Right Circular	100KG7W	70.2	56.2
E50. Modulation entirety.)	nta					to the end of the form	
SMWAAS	6679.42	6710	T	Left and Right Circular	30M0G7W	95.7	56.2

E50. Modulat entirety.)	tion and Service	es (If the	ne complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
digital	data						
SMWAAS	5925	6425	Т	Left and Right Circular	100KG7W	60.2	46.2
entirety.)	data and			escription does not appear			
SMWAAS	5925	6425	Т	Left and Right Circular	30M0G7W	82.5	46.2
entirety.)	tion and Service		ne complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
SMWAAS	Geostationary	1165.45 1586.42	115.0/ 137.0	172.9	49.9	210.0	45.7	0.0
	Geostationary	3700 4200	115.0/ 137.0	172.9	49.9	210.0	45.7	0.0
	Geostationary	5925 6425	115.0/ 137.0	172.9	49.9	210.0	45.7	47.61
	Geostationary	6425 6650.27	115.0/ 137.0	172.9	49.9	210.0	45.7	47.61
	Geostationary	6679.42 6710	115.0/ 137.0	172.9	49.9	210.0	45.7	47.61

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number			
NOTE: Please enter the callsign of the contro callsign for which this application is being filed	_			
E62. Street Address				
E63. City	E67. County		E64/68. State/Country	E66. Zip Code

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