



**UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION**

**RADIO STATION  
AUTHORIZATION**

**Name:** SES Americom, Inc.

**Call Sign:** E930289

**Authorization Type:** Modification of License

**File Number:** SES-MOD-20150416-00218

Non Common Carrier

**Grant date:** 12/25/2015

**Expiration Date:** 06/25/2018

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Fixed Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	6950 BRADLEY ROAD SOMIS, VENTURA, CA 93066	34°19'31.0"N	118°59'38.0"W	307.8	27

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

*Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning June 25, 2003 (3 AM Eastern Standard Time) and ending June 25, 2018 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. Grantee must file with the Commission a certification upon completion of construction and commencement of operation.*

**B) Particulars of Operations**

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	5925.0000-6425.0000	H,V	36M0F8W	Tx	80.03	53.03	1		
2)	3700.0000-4200.0000	H,V	36M0F8W	Rx			1		
3)	5925.0000-6425.0000	H,V,L,R	N0N	Tx	50.70	50.70	6.3		TEST CARRIER
4)	5925.0000-6425.0000	H,V,L,R	100KG7W	Tx	61.50	47.50	6.3		DIGITAL DATA
5)	5925.0000-6425.0000	H,V,L,R	10M0G7W	Tx	81.50	47.50	6.3		DIGITAL VIDEO, AUDIO AND DATA
6)	5850.0000-5925.0000	H,V,L,R	N0N	Tx	50.70	50.70	6.3		TEST CARRIER
7)	5850.0000-5925.0000	H,V,L,R	100KG7W	Tx	61.50	47.50	6.3		DIGITAL DATA
8)	5850.0000-5925.0000	H,V,L,R	10M0G7W	Tx	81.50	47.50	6.3		DIGITAL VIDEO, AUDIO AND DATA
9)	3700.0000-4200.0000	H,V,L,R	N0N	Rx			6.3		TRACKING BEACON



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10)	3700.0000-4200.0000	H,V,L,R	100KG7W	Rx			6.3		DIGITAL DATA
11)	3700.0000-4200.0000	H,V,L,R	10M0G7W	Rx			6.3		DIGITAL VIDEO, AUDIO AND DATA
12)	3635.0000-3700.0000	H,V,L,R	N0N	Rx			6.3		TRACKING BEACON
13)	3625.0000-3700.0000	H,V,L,R	100KG7W	Rx			6.3		DIGITAL DATA
14)	3625.0000-3700.0000	H,V,L,R	10M0G7W	Rx			6.3		DIGITAL VIDEO, AUDIO AND DATA

**C) Frequency Coordination Limits**

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	5925.0000-6425.0000	60.0W	-143.0W	16.9	-42.6	108.7	-218.3	3.5	1
2)	5925.0000-6425.0000	170.0W	-186.0W	23.3	-10.3	245.5	-256.5	15.3	6.3
3)	5850.0000-5925.0000	170.0W	-186.0W	23.3	-10.3	245.5	-256.5	20.57	6.3
4)	3625.0000-3700.0000	170.0W	-186.0W	23.3	-10.3	245.5	-256.5	0	6.3
5)	3700.0000-4200.0000	170.0W	-186.0W	23.3	-10.3	245.5	-256.5	0	6.3

**D) Points of Communications**

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) 1 to Permitted Space Station List
- 2) 1 to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 3) 1 to NSS- 9 (S2756) @ 177 W.L. (Netherlands-licensed)



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**E) Antenna Facilities**

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1	1	1	9	VERTEX	9KPC	307.8	10 AGL/ 317.8 AMSL	
		Max Gains(s):	50.1 dBi @	4.0000 GHz	53.5 dBi @	6.0000 GHz		
		Maximum total input power at antenna flange (Watts) =			450.00			
		Maximum aggregate output EIRP for all carriers (dBW) =			80.03			
1	6.3	1	6.3	GD SATCOM	6.3 KPC	307.8	7.2 AGL/ 318.7 AMSL	
		Max Gains(s):	46.3 dBi @	4.0000 GHz	50.2 dBi @	6.0000 GHz		
		Maximum total input power at antenna flange (Watts) =			1,349.00			
		Maximum aggregate output EIRP for all carriers (dBW) =			81.50			

**F) Remote Control Point:**

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**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

310 --- This transmitting earth station is granted to operate the frequency band 3650-3700 MHz on a secondary basis (see U.S. Table of Frequency Allocations footnote NG169) and shall immediately cease operation upon notification of harmful interference into any service that has primary status.

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.

1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.

2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.



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**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

2454 --- All satellite uplink transmissions carrying broadband video information shall comply with the Automatic Transmitter Identification System (ATIS) requirements of Section 25.281 of the Rules, as modified by FCC Report No. DS-1066, released on April 3, 1991.

2510 --- Waiver of Section 25.203 (e) of the Commission's Rules and Regulations is granted for the beam intersections listed in the application(s) for this facility.

2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.

3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).

5208 --- The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

5216 --- All operations shall be on a non-common carrier basis.

9659 --- The licensee is afforded 30 days from the date of issuance of this license to decline it as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

90133 --- Operations with the point of communication ALSAT or Permitted list must comply with the routine licensing provisions of parts 25 of Title 47 of the Code of Federal Regulations.

90134 --- Operations with the satellite points of communication are limited to the frequencies identified on the FCC Current Authorizations List and the FCC Market Access List.

90262 --- This authorization to operate in the 3625-3650 MHz frequency band on a primary basis is granted pursuant to having been filed prior to the effective date of the 3.5 GHz rules, July 23, 2015. See Section 2.106, Footnote US107(a) adopted in GN Dkt No. 12-354, FCC 15-147 (rel. Apr. 21, 2015).



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

**Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.**