



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: SES Americom, Inc.

Authorization Type: License

Non Common Carrier

Call Sign: E170197

File Number: SES-LIC-20171027-01217

Grant date: 12/27/2017

Expiration Date: 12/27/2032



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	2323 Grimville Rd Mt. Airy, MD 21771	39°22'36.5"N	77°4'49.4"W	190	83

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 December 27, 2017 (3 AM Eastern Standard Time) and ending December 27, 2032 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is December 27, 2018 (3 AM Eastern Standard Time). 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)	17300.0000-18050.0000	H, V	225MG7W	Tx	88.90	41.50	1		Digital Data
2)	17300.0000-17800.0000	H, V	N0N	Tx	54.00	54.00	1		CW Carrier
3)	17300.0000-17800.0000	H, V	100KG7W	Tx	62.00	48.00	1		Digital data
4)	17300.0000-17800.0000	H, V	50M2G7W	Tx	88.90	48.00	1		Digital Data
5)	17300.0000-17800.0000	H, V	54M0G7W	Tx	88.90	47.70	1		Digital Data
6)	17300.0000-17800.0000	H, V	72M0G7W	Tx	88.90	46.40	1		Digital Data
7)	14000.0000-14500.0000	H, V	N0N	Tx	52.10	52.10	1		CW carrier
8)	14000.0000-14500.0000	H, V	100KG7W	Tx	60.10	46.10	1		Digital Data
9)	14000.0000-14500.0000	H, V	225MG7W	Tx	87.10	39.30	1		Digital Data



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10)	14000.0000-14500.0000	H, V	50M2G7W	Tx	87.10	46.10	1		Digital Data
11)	14000.0000-14500.0000	H, V	54M0G7W	Tx	87.10	45.80	1		Digital Data
12)	14000.0000-14500.0000	H, V	72M0G7W	Tx	87.10	44.50	1		Digital Data
13)	13780.0000-14000.0000	H, V	50M2G7W	Tx	85.00	44.00	1		Digital Data
14)	13780.0000-14000.0000	H, V	72M0G7W	Tx	85.00	42.40	1		Digital Data
15)	13770.0000-13780.0000	H, V	10M0G7W	Tx	73.20	39.20	1		Digital Data
16)	13770.0000-13780.0000	H, V	6M00G7W	Tx	71.00	39.20	1		Digital Data
17)	13750.0000-14000.0000	H, V	N0N	Tx	0.00	0.00	1		Digital Data
18)	13750.0000-14000.0000	H, V	152MG7W	Tx	85.00	39.20	1		Digital Data
19)	13750.0000-14000.0000	H, V	225MG7W	Tx	85.00	37.50	1		Digital Data
20)	13750.0000-14000.0000	H, V	648KG7W	Tx	68.00	45.90	1		Digital Data
21)	13750.0000-13770.0000	H, V	20M0G7W	Tx	82.90	45.90	1		Digital Data
22)	12200.0000-12450.0000	H, V	N0N	Rx			1		CW Carrier
23)	12200.0000-12450.0000	H, V	100KG7W	Rx			1		Digital Data
24)	12200.0000-12450.0000	H, V	225MG7W	Rx			1		Digital Data
25)	12200.0000-12450.0000	H, V	50M0G7W	Rx			1		Digital Data
26)	12200.0000-12450.0000	H, V	54M0G7W	Rx			1		Digital Data
27)	12200.0000-12450.0000	H, V	72M0G7W	Rx			1		Digital Data
28)	11700.0000-11950.0000	H, V	N0N	Rx			1		CW Carrier
29)	11700.0000-11950.0000	H, V	100KG7W	Rx			1		Digital data
30)	11700.0000-11950.0000	H, V	36M0G7W	Rx			1		Digital Data
31)	11700.0000-11950.0000	H, V	50M2G7W	Rx			1		Digital Data
32)	11700.0000-11950.0000	H, V	54M0G7W	Rx			1		Digital Data
33)	11700.0000-11950.0000	H, V	225MG7W	Rx			1		Digital Carrier



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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		
9)	13780.0000-14000.0000	12.0W-142.0W		10.5-10.6		106.4-253.5		-6.31	1

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 SES-14 (S2974)@47.5 degrees W.L. (Brazil & Netherlands - licensed)

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	GD Satcom	9.0 M	190	9.7 AGL/ 199.7 AMSL	
Max Gains(s): 59.9 dBi @ 13.8000 GHz 62.0 dBi @ 17.5000 GHz 58.5 dBi @ 11.7250 GHz 60.1 dBi @ 14.1250 GHz								
Maximum total input power at antenna flange (Watts) =					750.00			
Maximum aggregate output EIRP for all carriers (dBW) =					88.90			

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:

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.
- 5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.



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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
34)	11700.0000-11950.0000	H, V	72M0G7W	Rx			1		Digital Carrier
35)	11450.0000-11700.0000	H, V	N0N	Rx			1		CW Carrier
36)	11450.0000-11700.0000	H, V	100KG7W	Rx			1		Digital Data
37)	11450.0000-11700.0000	H, V	225MG7W	Rx			1		Digital Data
38)	11450.0000-11700.0000	H, V	50M2G7W	Rx			1		Digital Data
39)	11450.0000-11700.0000	H, V	54M0G7W	Rx			1		Digital Data
40)	11450.0000-11700.0000	H, V	72M0G7W	Rx			1		Digital Data
41)	10950.0000-11200.0000	H, V	N0N	Rx			1		CW Carrier
42)	10950.0000-11200.0000	H, V	100KG7W	Rx			1		Digital Data
43)	10950.0000-11200.0000	H, V	225MG7W	Rx			1		Digital Data
44)	10950.0000-11200.0000	H, V	50M0G7W	Rx			1		Digital Data
45)	10950.0000-11200.0000	H, V	54M0G7W	Rx			1		Digital Data
46)	10950.0000-11200.0000	H, V	72M0G7W	Rx			1		Digital 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)	0.0000-0.0000	12.0W	142.0W	10.5	10.6	106.4	253.5		1
2)	11450.0000-11700.0000	12.0W	142.0W	10.5	10.6	106.4	253.5		1
3)	13750.0000-13770.0000	12.0W	142.0W	10.5	10.6	106.4	253.5	-6.31	1
4)	14000.0000-14500.0000	12.0W	142.0W	10.5	10.6	106.4	253.5	-6.31	1
5)	12200.0000-12450.0000	12.0W	142.0W	10.5	10.6	106.4	253.5		1
6)	10950.0000-11200.0000	12.0W	142.0W	10.5	10.6	106.4	253.5		1
7)	11700.0000-11950.0000	12.0W	142.0W	10.5	10.6	106.4	253.5		1
8)	13770.0000-13780.0000	12.0W	142.0W	10.5	10.6	106.4	253.5	-13	1



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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:

- 181 --- The user must provide the Naval Electromagnetic Spectrum Center (703-325-2750) a 24hr phone number (240-447-9573) which would be contacted when national defense and US naval operation requirements necessitate immediate cessation of operations. The applicant is aware that they would be required to temporarily cease satellite operations on these frequencies until notified otherwise.
- 480 --- The grant of this license is pursuant to NG52, which requires that signals received in the 10.7-11.7 GHz band be emanated from uplink transmissions outside the US&P.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) 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. Physical 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) 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.
- 90456 --- Reception of 12.2-12.7 GHz frequencies (space-to-Earth) in ITU Region 2 is allocated to Direct Broadcast Service (ITU as Broadcasting -Satellite Service and feeder link). This earth station is not operating as a Direct Broadcast Service (DBS) station and that it did not coordinate with DBS operators; therefore, operations in the 12.2-12.7 GHz is on a non-interference, non-protected basis over the U.S. and its territories.



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

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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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.