



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: SES Americom, Inc.

Call Sign: E050287

Authorization Type: Renewal of License

File Number: SES-RWL-20210115-00055

Non Common Carrier

Grant date: 04/15/2021

Expiration Date: 03/17/2036

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 ROAD (WBKUBSS) MOUNT AIRY, CARROLL, MD 21771	39°22'37.1"N	77°4'49.1"W	198.12	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 March 17, 2021 (3 AM Eastern Standard Time) and ending March 17, 2036 (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)	14000.0000-14500.0000	H, V	100KG7W	Rx			WB K8		DIGITAL DATA
2)	14000.0000-14500.0000	H, V	NON	Tx	55.50	55.50	WB K8		CW TEST CARRIER
3)	14000.0000-14500.0000	H, V	100KD7W	Tx	63.50	49.50	WB K8		DIGITAL DATA
4)	14000.0000-14500.0000	H, V	100KG7W	Tx	63.50	49.50	WB K8		DIGITAL DATA
5)	14000.0000-14500.0000	H, V	1M00F9D	Tx	79.50	55.50	WB K8		FM, TELECOMMAND
6)	14000.0000-14500.0000	H, V	24M0G7W	Tx	87.28	49.50	WB K8		Digital phase modulation.
7)	14000.0000-14500.0000	H, V	72M0D7W	Tx	84.90	42.30	WB K8		DIGITAL VIDEO, AUDIO AND DATA
8)	14000.0000-14500.0000	H, V	72M0G7W	Tx	84.90	42.30	WB K8		DIGITAL VIDEO, AUDIO AND DATA
9)	13780.0000-14000.0000	H, V	400KG7W	Tx	69.50	49.50	WB K8		DIGITAL DATA



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10)	13780.0000-14000.0000	H, V	1M00F9D	Tx	79.50	55.50	WB K8		FM, TELECOMMAND
11)	13780.0000-14000.0000	H, V	36M0G7W	Tx	84.90	45.30	WB K8		DIGITAL VIDEO, AUDIO AND DATA
12)	13770.0000-13780.0000	H, V	400KG7W	Tx	69.50	49.50	WB K8		DIGITAL DATA
13)	13770.0000-13780.0000	H, V	10M0G7W	Tx	73.20	39.20	WB K8		DIGITAL VIDEO, AUDIO AND DATA
14)	13750.0000-13770.0000	H, V	400KG7W	Tx	69.50	49.50	WB K8		DIGITAL DATA
15)	13750.0000-13770.0000	H, V	1M00F9D	Tx	79.50	55.50	WB K8		FM, TELECOMMAND
16)	13750.0000-13770.0000	H, V	20M0G7W	Tx	84.90	47.90	WB K8		DIGITAL VIDEO, AUDIO AND DATA
17)	11700.0000-12200.0000	H, V	100KD7W	Rx			WB K8		DIGITAL DATA
18)	11700.0000-12200.0000	H, V	100KG7W	Rx			WB K8		DIGITAL DATA
19)	11700.0000-12200.0000	H, V	500KG7D	Rx			WB K8		PM, TELEMETRY
20)	11700.0000-12200.0000	H, V	NON	Rx			WB K8		CW, TRACKING BEACON
21)	11700.0000-12200.0000	H, V	24M0G7W	Rx			WB K8		Digital phase modulation.
22)	11700.0000-12200.0000	H, V	72M0D7W	Rx			WB K8		DIGITAL VIDEO, AUDIO AND DATA
23)	11700.0000-12200.0000	H, V	72M0G7W	Rx			WB K8		DIGITAL VIDEO, AUDIO AND DATA
24)	11450.0000-11700.0000	H, V	100KD7W	Rx			WB K8		DIGITAL DATA
25)	11450.0000-11700.0000	H, V	100KG7W	Rx			WB K8		DIGITAL DATA
26)	11450.0000-11700.0000	H, V	500KG7D	Rx			WB K8		PM, TELEMETRY
27)	11450.0000-11700.0000	H, V	NON	Rx			WB K8		CW, TRACKING BEACON
28)	11450.0000-11700.0000	H, V	72M0D7W	Rx			WB K8		DIGITAL VIDEO, AUDIO AND DATA
29)	11450.0000-11700.0000	H, V	72M0G7W	Rx			WB K8		DIGITAL VIDEO, AUDIO AND DATA
30)	10950.0000-11200.0000	H, V	100KD7W	Rx			WB K8		DIGITAL DATA
31)	10950.0000-11200.0000	H, V	100KG7W	Rx			WB K8		DIGITAL DATA



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#	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
32)	10950.0000-11200.0000	H, V	500KG7D	Rx			WB K8		FM, TELEMETRY
33)	10950.0000-11200.0000	H, V	NON	Rx			WB K8		CW, TRACKING BEACON
34)	10950.0000-11200.0000	H, V	72M0D7W	Rx			WB K8		DIGITAL VIDEO, AUDIO AND DATA
35)	10950.0000-11200.0000	H, V	72M0G7W	Rx			WB K8		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)	14000.0000-14500.0000	60.0W	140.0W	41.1	12.1	154.2	252.0	-9.23	WB K8
2)	11700.0000-12200.0000	60.0W	140.0W	41.1	12.1	154.2	252.0		WB K8
3)	14000.0000-14500.0000	10.0W	145.0W	08.9	08.3	105.0	255.6	1.43	WB K8
4)	13750.0000-14000.0000	10.0W	145.0W	08.9	08.3	105.0	255.6	1.43	WB K8
5)	11700.0000-12200.0000	10.0W	145.0W	08.9	08.3	105.0	255.6		WB K8
6)	11450.0000-11700.0000	10.0W	145.0W	08.9	08.3	105.0	255.6		WB K8
7)	10950.0000-11200.0000	10.0W	145.0W	08.9	08.3	105.0	255.6		WB K8

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 ASTRA 3A @ 86.85° W.L. (LUX Registered, HOL ITU Filing) (TT&C ops only)



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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	WB K8	1	13.1	VERTEX	13.1KPC	198.12	18 AGL/ 216.12 AMSL	
Max Gains(s):		61.5 dBi @	12.2000 GHz	63.5 dBi @	14.5000 GHz			
Maximum total input power at antenna flange (Watts) =					238.78			
Maximum aggregate output EIRP for all carriers (dBW) =					87.30			

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.

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.

90363 --- The ASTRA 3A @ 86.85° W.L. as an authorized Point of Communication is for TT&C only.

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)



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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:

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.

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

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 is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction 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.