



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


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**RADIO STATION AUTHORIZATION**

**Name:** SES Americom, Inc.

**Call Sign:** E000696

**Authorization Type:** Modification of License

**File Number:** SES-MOD-20210427-00738

Non Common Carrier

**Grant date:** 05/07/2021

**Expiration Date:** 04/25/2026

**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)	BRISTOW	8031 Piney Branch RD Bristow, Prince William, VA 20136	38°47'3.2"N	77°34'21.7"W	86.5	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 April 25, 2011 (3 AM Eastern Standard Time) and ending April 25, 2026 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is May 7, 2022 (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)	6600.0000-6639.0000	H, V, L, R	72M0G7W	Tx	85.40	42.90	NWM-006	BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.	
2)	6600.0000-6639.0000	H, V, L, R	36M0F3F	Tx	85.40	58.40	NWM-006	Standard Video	
3)	6425.5000-6560.0000	H, V, L, R	15K2G7W-	Tx	61.90	56.10	NWM-006	BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.	



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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
4)	6425.5000-6560.0000	H, V, L, R	72M0G7W	Tx	61.90	42.90	NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
5)	6425.5000-6560.0000	H, V, L, R	36M0F3F	Tx	85.40	58.40	NWM-006		Standard Video
6)	6175.5500-6177.0500	H, V	900KF1D	Tx	79.73	56.23	NWM-006		FM, TeleCommand Frequency 2
7)	6172.9500-6174.4500	H, V	900KF1D	Tx	79.73	56.23	NWM-006		FM, TeleCommand Frequency 1
8)	5925.0000-6425.0000	H, V, L, R	15K2G7W-	Tx	61.90	56.10	NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
9)	5925.0000-6425.0000	H, V, L, R	72M0G7W	Tx	61.90	42.90	NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
10)	5925.0000-6425.0000	H, V, L, R	36M0F3F	Tx	85.40	58.40	NWM-006		Standard Video
11)	5850.0000-5925.0000	H, V, L, R	15K2G7W-	Tx	61.90	56.10	NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
12)	5850.0000-5925.0000	H, V, L, R	72M0G7W	Tx	61.90	42.90	NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
13)	5850.0000-5925.0000	H, V, L, R	36M0F3F	Tx	85.40	58.40	NWM-006		Standard Video



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**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
14)	4199.5000-4199.5000	V	NON	Rx			NWM-006		CW, Tracking Beacon
15)	3951.7500-3952.2500	R	500KG7D	Rx			NWM-006		PM, Telemetry Beacon 2A
16)	3950.0000-3950.0000	H, V	NON	Rx			NWM-006		CW, Tracking Beacon
17)	3947.7500-3948.2500	R	500KG7D	Rx			NWM-006		PM, Telemetry Beacon 1A
18)	3947.2500-3947.7500	R	500KG7D	Rx			NWM-006		PM, Telemetry Beacon 1
19)	3947.2500-3947.7500	R	500KG7D	Rx			NWM-006		PM, Telemetry Beacon
20)	3700.0000-4200.0000	H, V, L, R	15K2G7W-	Rx			NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
21)	3700.0000-4200.0000	H, V, L, R	72M0G7W	Rx			NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
22)	3700.0000-4200.0000	H, V, L, R	36M0F3F	Rx			NWM-006		Standard Video
23)	3625.0000-3700.0000	H, V, L, R	15K2G7W-	Rx			NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
24)	3625.0000-3700.0000	H, V, L, R	72M0G7W	Rx			NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
25)	3625.0000-3700.0000	H, V, L, R	36M0F3F	Rx			NWM-006		Standard Video
26)	3625.0000-3700.0000	L, R	45K0G1W	Rx			NWM-006		Voice, video, and data, QPSK, BPSK, 8PSK. FEC 3/4, FEC 7/8



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**B) Particulars of Operations**

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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
27)	3625.0000-3700.0000	L, R	6M87G7W	Rx			NWM-006		Voice, video, and data, QPSK, BPSK, 8PSK. FEC 3/4, FEC 7/8
28)	3625.0000-3700.0000	L, R	25M0G7W	Rx			NWM-006		Voice, video, and data, QPSK, BPSK, 8PSK. FEC 3/4, FEC 7/8
29)	3625.0000-3700.0000	L, R	41M9G7W	Rx			NWM-006		Voice, video, and data, QPSK, BPSK, 8PSK. FEC 3/4, FEC 7/8
30)	3625.0000-3700.0000	L, R	72M0G7W	Rx			NWM-006		Voice, video, and data, QPSK, BPSK, 8PSK. FEC 3/4, FEC 7/8
31)	3625.0000-3700.0000	L, R	36M0F8W	Rx			NWM-006		Voice, video, and data, FM
32)	3625.0000-3700.0000	L, R	30M0F8W	Rx			NWM-006		Voice, video, and data, FM
33)	3625.0000-3700.0000	L, R	20M0G7W	Rx			NWM-006		Voice, video, and data, QPSK, BPSK, 8PSK. FEC 3/4, FEC 7/8
34)	3600.0000-3625.0000	H, V, L, R	36M0F3F	Rx			NWM-006		Standard video
35)	3600.0000-3625.0000	H, V, L, R	15K2G7W	Rx			NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps-90Mbps, combination of digital services-data, compressed digital video, internet, etc.
36)	3600.0000-3625.0000	H, V, L, R	72M0G7W	Rx			NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps-90Mbps, combination of digital services-data, compressed digital video, internet, etc.
37)	3600.0000-3625.0000	L, R	45K0G1W	Rx			NWM-006		Voice, video and data, BPSK, QPSK, 8PSK, FEC 3/4, FEC
38)	3600.0000-3625.0000	L, R	6M87G7D	Rx			NWM-006		Voice, video and data, BPSK, QPSK, 8PSK, FEC 3/4, FEC



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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
39)	3600.0000-3625.0000	L, R	25M0G7W	Rx			NWM-006		Voice, video and data, BPSK, QPSK, 8PSK, FEC 3/4, FEC
40)	3600.0000-3625.0000	L, R	41M9G7W	Rx			NWM-006		Voice, video and data, BPSK, QPSK, 8PSK, FEC 3/4, FEC
41)	3600.0000-3625.0000	L, R	72M0G7W	Rx			NWM-006		Voice, video and data, BPSK, QPSK, 8PSK, FEC 3/4, FEC
42)	3600.0000-3625.0000	L, R	36M0F8W	Rx			NWM-006		Voice, video and data, FM
43)	3600.0000-3625.0000	L, R	30M0F8W	Rx			NWM-006		Voice, video and data, FM
44)	3600.0000-3625.0000	L, R	20M0G7W	Rx			NWM-006		Voice, video and data, BPSK, QPSK, 8PSK, FEC 3/4, FEC
45)	6725.0000-6874.0000	H, V, L, R	100KNON	Tx	66.90	52.90	NWM-016		CW TESTING AND BEACONS
46)	6725.0000-6874.0000	H, V, L, R	15K2G7W	Tx	58.70	52.90	NWM-016		VIDEO AND DATA
47)	6725.0000-6874.0000	H, V, L, R	72M0G7W	Tx	82.50	39.90	NWM-016		VIDEO AND DATA
48)	5925.0000-6425.0000	H, V, L, R	1M00F8D	Tx	79.10	55.10	NWM-016		TT&C
49)	5850.0000-6425.0000	H, V, L, R	15K2G7W	Tx	58.70	52.90	NWM-016		VIDEO AND DATA
50)	5850.0000-5925.0000	H, V, L, R	1M00F8D	Tx	80.10	56.10	NWM-016		TT&C
51)	5850.0000-5925.0000	H, V, L, R	100KNON	Tx	70.10	56.10	NWM-016		CW TESTING AND BEACONS
52)	5850.0000-5925.0000	H, V, L, R	72M0G7W	Tx	82.50	39.90	NWM-016		VIDEO AND DATA
53)	3625.0000-4200.0000	H, V, L, R	1M00F8D	Rx			NWM-016		TT&C
54)	3625.0000-4200.0000	H, V, L, R	100KNON	Rx			NWM-016		CW TESTING BEACONS
55)	3625.0000-4200.0000	H, V, L, R	15K2G7W	Rx			NWM-016		VIDEO AND DATA
56)	3625.0000-4200.0000	H, V, L, R	72M0G7W	Rx			NWM-016		VIDEO AND DATA
57)	6725.0000-6874.0000	H, V	100KNON	Tx	64.80	50.80	NWM-017		VIDEO AND DATA
58)	6725.0000-6874.0000	H, V	1M00F8D	Tx	74.80	50.80	NWM-017		TT&C
59)	6725.0000-6874.0000	H, V	102KG7W	Tx	64.90	50.80	NWM-017		CW TESTING AND BEACONS



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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
60)	5925.0000-6425.0000	H, V, L, R	1M00F8D	Tx	77.00	53.00	NWM-017		TT&C
61)	5925.0000-6425.0000	H, V, L, R	100KN0N	Tx	67.00	53.00	NWM-017		CW TESTING AND BEACONS
62)	5925.0000-6425.0000	H, V, L, R	54M0G7W	Tx	80.20	38.90	NWM-017		VIDEO AND DATA
63)	5850.0000-5925.0000	H, V, L, R	1M00F8D	Tx	78.00	54.00	NWM-017		TT&C
64)	5850.0000-5925.0000	H, V, L, R	100KN0N	Tx	68.00	54.00	NWM-017		CW TESTING AND BEACONS
65)	5850.0000-5925.0000	H, V, L, R	36M0G7W	Tx	80.40	40.90	NWM-017		VIDEO AND DATA
66)	5825.0000-6425.0000	H, V, L, R	100KN0N	Tx	64.90	50.80	NWM-017		VIDEO AND DATA
67)	3700.0000-4200.0000	H, V, L, R	54M0G7W	Rx			NWM-017		VIDEO AND DATA
68)	3625.0000-4200.0000	H, V, L, R	1M00F8D	Rx			NWM-017		TT&C
69)	3625.0000-4200.0000	H, V, L, R	100KN0N	Rx			NWM-017		CW TESTING AND BEACONS
70)	3625.0000-4200.0000	H, V, L, R	102KG7W	Rx			NWM-017		VIDEO AND DATA
71)	6600.0000-6639.0000	H, V, L, R	15K2G7W-	Tx	61.90	56.10	NWM-006		BPSK, QPSK, 8PSK, 16QAM, FEC rates-1/2-7/8, various data rates 19kbps - 90Mbps, combination of digital services - data, compressed digital video, internet, etc.
72)	3952.2500-3952.7500	R	500KG7W	Rx			NWM-006		PM, Telemetry Beacon2
73)	5925.0000-6425.0000	H, V, L, R	100KN0N	Tx	69.10	55.10	NWM-016		CW TESTING AND BEACONS
74)	3625.0000-4200.0000	H, V, L, R	36M0G7W	Rx			NWM-017		VIDEO 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)	3600.0000-3625.0000	40.5W	40.5W	31.0	31.0	129.7	129.7		NWM-006
2)	6600.0000-6639.0000	18.0W	55.5W	14.8	39.6	110.2	147.1	2.2	NWM-006



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#	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		
3)	6425.5000-6560.0000	18.0W	55.5W	14.8	39.6	110.2	147.1	2.2	NWM-006
4)	5925.0000-6425.0000	6.0W	149.0W	05.6	05.7	101.8	258.1	13.35	NWM-006
5)	3700.0000-4200.0000	6.0W	149.0W	05.6	05.7	101.8	258.1		NWM-006
6)	5850.0000-5925.0000	18.0W	55.5W	14.8	39.6	110.2	147.1	2.2	NWM-006
7)	3625.0000-3700.0000	18.0W	55.5W	14.8	39.6	110.2	147.1		NWM-006
8)	5850.0000-5925.0000	10.0W	55.5W	08.7	39.6	104.5	147.1	8.99	NWM-016
9)	5925.0000-6425.0000	10.0W	139.0W	08.7	13.4	104.5	251.2	7.99	NWM-016
10)	3625.0000-3700.0000	10.0W	55.5W	08.7	39.6	104.5	147.1		NWM-016
11)	3700.0000-4200.0000	10.0W	139.0W	08.7	13.4	104.5	251.2		NWM-016
12)	5850.0000-5925.0000	10.0W	55.5W	08.7	39.6	104.5	147.1	8.99	NWM-017
13)	5925.0000-6425.0000	10.0W	139.0W	08.7	13.4	104.5	251.2	7.99	NWM-017
14)	3625.0000-3700.0000	10.0W	55.5W	08.7	39.6	104.5	147.1		NWM-017
15)	3700.0000-4200.0000	10.0W	139.0W	08.7	13.4	104.5	251.2		NWM-017

**D) Points of Communications**

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

1) BRISTOW to Permitted Space Station List

**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)
BRISTOW	NWM-006	1	16.4	VERTEX	16.4 THC	86.5	17 AGL/ 103.5 AMSL	
	Max Gains(s):	55.1 dBi @	3.9500 GHz	58.9 dBi @	6.1750 GHz			
	Maximum total input power at antenna flange (Watts) =				450.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				85.40			
BRISTOW	NWM-016	1	11	GD SATCOM	11.1 KPC	86.5	12.8 AGL/ 99.3 AMSL	
	Max Gains(s):	51.6 dBi @	4.0000 GHz	55.5 dBi @	6.0000 GHz			
	Maximum total input power at antenna flange (Watts) =				500.00			
	Maximum aggregate output EIRP for all carriers (dBW) =				82.50			



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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)
BRISTOW	NWM-017	1	9	GD SATCOM	9.0KPC	86.5	9.2 AGL/ 95.7 AMSL	
Max Gains(s):		49.3 dBi @	4.0000 GHz	53.5 dBi @	6.0000 GHz			
Maximum total input power at antenna flange (Watts) =					500.00			
Maximum aggregate output EIRP for all carriers (dBW) =					80.50			

**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.
- 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.
- 8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

3415 --- The licensee shall take extraordinary measures to ensure that antenna does not create potential exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Antenna shall be surrounded by a physical barrier or fence at least 2 meters tall with a locked gate, to prevent human exposure in excess of the FCC-specified safety limit of 1 mW/cm<sup>2</sup>. Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the physical barrier or the locked area.

5738 --- This authorization is subject to the conditions and terms set forth in the Commission's Order and Authorization, FCC 99-210, released August 6, 1999, and Memorandum Opinion and Order, FCC 01-107, released March 29, 2001, and New Skies Satellites N.V., Petition for Declaratory Ruling, Order, DA 01-513 (Int'l Bureau, Satellite and Radiocommunication Division, released Mar. 29, 2001)

5802 --- This authorization is issued pursuant to and subject to the terms and policy adopted in the Commission's Order, released December 11, 2000 (FCC 00-363).





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**RADIO STATION AUTHORIZATION**

Name: SES Americom, Inc.

Call Sign: E000696

Authorization Type: Modification of License

File Number: SES-MOD-20210427-00738

Non Common Carrier

Grant date: 05/07/2021

Expiration Date: 04/25/2026

## H) Special and General Provisions

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

5822 --- The 3600-3650 MHz band is shared on a co-primary basis in the U.S. and Possessions with Federal Government radiolocation systems. Unacceptable interference may be caused to this earth station from radiolocation systems, including high-powered, highly mobile, shipborne and airborne radar transmitters, operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US245 and based on the NTIA TR-99-361 Report, Technical Characteristics of Radiolocation Systems operating in the 3.1-3.7 GHz Band and Procedures for assessing EMC with Fixed Earth Station Receivers (available at <http://www.ntia.doc.gov/osmhome/reports.html>), the licensee accepts this potential for unacceptable interference. In the case that out-of-band interference does occur, the licensee is further aware that use of a RF filter ahead of the low noise amplifier (LNA) will limit potential out-of-band interference to its receiving earth station. Additionally, per US 245, in the band 3600-3650 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.

5859 --- The 3650-3700 MHz band is shared on a co-primary basis in three Federal Government radiolocation systems identified in US348. Unacceptable interference may be caused to this earth station from these three radiolocation systems operating in the frequency band. Consistent with the applicant's EMC analysis (as required by US348 and based on the NTIA TR-99-361 Report, Technical Characteristics of Radiolocation Systems operating in the 3.1-3.7 GHz Band and Procedures for assessing EMC with Fixed Earth Station Receivers (available at <http://www.ntia.doc.gov/osmhome/reports.html>), the licensee accepts this potential for unacceptable interference from the three stations identified in US348. In the case that out-of-band interference does occur, the licensee is further aware that use of a RF filter ahead of the low noise amplifier (LNA) will limit potential out-of-band interference to its receiving earth station. Additionally, per US 245, in the band 3650-3700 MHz, these fixed-satellite service operations are limited to international inter-continental satellite systems.

5881 --- The extended C-band frequencies 5850-5925 MHz and 3625-3700 MHz are only for use with the INTELSAT and New Skies Satellite, N.V. satellites listed in Section D (Points of Communications) of this authorization.

5883 --- Operation in the frequency band 6425-6525 MHz is permitted only on a non-harmful interference basis until such time the Commission acts upon a modification application in which completed and successful frequency coordination with terrestrial mobile users is submitted in accordance with Section 25.203 of the Commission's Rules. Operation in the frequency band 6425-6525 MHz shall not cause harmful interference to, and Licensee is required to accept harmful interference from, any other lawfully operating radio station. Operations shall cease immediately upon notification of such interference, and complaints of all radio interference shall be forwarded immediately to the Commission, in writing.

90120 --- This application, IBFS File No. SES-MFS-20130604-00470, is deferred in part on all proposed emission carriers in the 4500-4800 MHz (space-to-Earth) frequency band. No authority is granted to receive transmissions in this frequency band. Furthermore, operations in the 6725-6874 MHz (Earth-to-space) frequency band is limited to operations with the SES-6 satellite, S2870, operating at the 40.5 W.L. orbital location. Such uplink transmissions are authorized on the condition that they will not result in the corresponding downlink transmissions from SES-6 in the 4500-4800 MHz frequency band causing interference to U.S. systems operating in the 4500-4800 MHz band. Upon report of interference in the 4500-4800 MHz frequency band, earth station E000696 must cease operations in the 6725-6874 MHz frequency band immediately.

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)



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  

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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](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.

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.**