

RADIO STATION AUTHORIZATION

Name: SageNet LLC Authorization Type: Renewal of License Non Common Carrier

Grant date: 04/16/2021

Expiration Date:

Call Sign: E860013 File Number: SES-RWL-20210310-00458 02/18/2036

Nature of Service: Domestic Fixed Satellite Service Nature of Service: International Fixed Satellite Service

Class of Station: VSAT Fixed Hub Station

A) Site Location(s)

# Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1) HUB M1	840 FRANKLIN COURT MARIETTA, COBB, GA 30067	33°55'41.0"N	84°29'45.0 " W	295.7	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 February 18, 2021 (3 AM Eastern Standard Time) and ending February 18, 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.

For the text of these provisions, refer to Section			ш п.		Max EIRP	Max EIRP Density		Special Provisions	
#	Frequency (MHz)	Polarizatio Code	on Emission	Tx/Rx Mode	/Carrier (dBW)	/Carrier (dBW/4kHz)	Associated Antenna	(Refer to Section H)	Modulation/ Services
1) 14	000.0000-14500.0000	H,V	425KG7D	Tx	46.40	26.40	9.0M		128 KBPS, 1/2 RATE FEC, BPSK MODULATION, 425 KHZ BANDWIDTH, DIGITAL DATA
2) ₁₄	000.0000-14500.0000	H,V	800KG7D	Τx	49.40	26.40	9.0M		256 KBPS, 1/2 RATE FEC, BPSK MODULATION, 800 KHZ BANDWIDTH, DIGITAL DATA
3) <u>1</u> 4	000.0000-14500.0000	H,V	1M60G7D	Tx	52.40	26.40	9.0M		512 KBPS, 1/2 RATE FEC, BPSK MODULATION, 1,600 KHZ BANDWITH, DIGITAL DATA
4) 14	000.0000-14500.0000	H,V	400KG7D	Tx	49.40	29.40	9.OM		256 KBPS, 1/2 RATE FEC, QPSK MODULATION, 400 KHZ BANDWIDTH, DIGITAL DATA



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#	Frequency (MHz)	Polarization Code	n Emission	Tx/Rx Mode	EIRP /Carrier (dBW)	Density /Carrier (dBW/4kHz)	Associated Antenna	Provisions (Refer to Section H)	Modulation/ Services
5)1	4000.0000-14500.0000	H,V	600KG7D	Tx	51.15	29.40	9.0M		384 KBPS, 1/2 RATE FEC, QPSK MODULATION, 600 KHZ BANDWIDTH, DIGITAL DATA
6) ₁ ,	4000.0000-14500.0000	H,V	800KG7D	Tx	52.40	29.40	9.0M		512 KBPS, 1/2 RATE FEC, QPSK MODULATION, 800 KHZ BANDWIDTH, DIGITAL DATA
7) ₁ ,	4000.0000-14500.0000	H,V	1M20G7D	Tx	51.15	26.40	9.OM		384 KBPS, 1/2 RATE FEC, BPSK MODULATION, 1,200 KHZ BANDWIDTH, DIGITAL DATA
8) ₁ ,	4000.0000-14500.0000	H,V	1M20G7D	Tx	54.15	29.40	9.OM		768 KBPS, 1/2 RATE FEC, QPSK MODULATION, 1.200 KHZ BANDWIDTH, DIGITAL DATA
9) ₁ ,	4000.0000-14500.0000	H,V	2M40G7D	Tx	54.15	26.40	9.OM		768 KBPS, 1/2 RATE FEC, BPSK MODULATION, 2,400 KHZ BANDWIDTH, DIGITAL DATA
10) 1	4000.0000-14500.0000	H,V	1M60G7D	Τx	55.40	29.40	9.0M		1,024 KBPS, 1/2 RATE FEC, QPSK MODULATION, 1,600 KHZ BANDWIDTH, DIGITAL DATA
11) 1.	4000.0000-14500.0000	H,V	2M40G7D	Tx	57.15	29.40	9.0M		1,536 KBPS, 1/2 RATE FEC, QPSK MODULATION, 2,400 KHZ BANDWIDTH, DIGITAL DATA CARRIER
12) ₁ ,	4000.0000-14500.0000	H,V	3M20G7D	Τx	55.40	26.40	9.OM		1,024 KBPS, 1/2 RATE FEC, BPSK MODULATION, 3,200 KHZ BANDWIDTH, DIGITAL DATA CARRIER
13) ₁ ,	4000.0000-14500.0000	H,V	3M20G7D	Τx	58.40	29.40	9.OM		2,048 KBPS, 1/2 RATE FEC, QPSK MODULATION, 3,200 KHZ BANDWIDTH, DIGITAL DATA CARRIER
14) 14	4000.0000-14500.0000	Η, V	6M40G7D	Tx	58.40	26.40	9.0M		2,048 KBPS, 1/2 RATE FEC, BPSK MODULATION, 6,400 KHZ BANDWIDTH, DIGITAL DATA CARRIER
15) ₁ ,	4000.0000-14500.0000	H,V	4M80G7D	Tx	57.15	26.40	9.OM		1,536 KBPS, 1/2 RATE FEC, BPSK MODULATION, 4,800 KHZ BANDWIDTH, DIGITAL

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For the	text of these provisions, refe	er to Section I	ł.		Max	Max EIRP		Special		
#	Frequency (MHz)	Polarizatio Code	on Emission	Tx/Rx Mode	EIRP /Carrier (dBW)	Density /Carrier (dBW/4kHz)	Associated Antenna	Provisions (Refer to Section H)	Modulation/ Services	
16) 140	000.0000-14500.0000	H,V	6M10G7D	Τx	65.20	33.40	9.0M		3,500 KSPS, 1/2 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 6, 100 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
17) 140	000.0000-14500.0000	Η, V	8M10G7D	Τx	66.46	33.40	9.0M		6,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/9 RATE FEC, QPSK MODULATION, 8,100 KHZ BNADWIDTH, DIGITAL DATA CARRIER	
18) 140	000.0000-14500.0000	H,V	10M8G7D	Τx	67.70	33.40	9.0M		8,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 10,800 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
19)140	000.0000-14500.0000	H,V	16M2G7D	Τx	69.47	33.40	9.0M		12,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 16,200 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
20)140	000.0000-14500.0000	Η, V	21M6G7D	Tx	70.70	33.40	9.0M		16,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 21,600 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
21) 140	000.0000-14500.0000	Η, V	36M0G7D	Τx	72.94	33.40	9.0M		26,700 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 36,000 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
22) ₁₄₀	000.0000-14500.0000	H,V	43M2G7D	Τx	73.73	33.40	9.0M		32,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 43,200 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
23)140	000.0000-14500.0000	Η,V	54M0G7D	Τx	74.70	33.40	9.0M		40,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 54,000 KHZ BANDWIDTH, DIGITAL DATA CARRIER	
24) 117	700.0000-12200.0000	H,V	60K0G7D	Rx			9.OM		38.4 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 60 KHZ BANDWIDTH, DIGITAL DATA CARDIDE	

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For the	text of these provisions, refe	er to Section I	ł.		Max	Max EIRP		Special	
#	Frequency (MHz)	Polarizatio Code	on Emission	Tx/Rx Mode	EIRP /Carrier (dBW)	Density /Carrier (dBW/4kHz)	Associated Antenna	Provisions (Refer to Section H)	Modulation/ Services
25) 117	700.0000-12200.0000	Η,V	120KG7D	Rx			9.0M		76.8 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 120 KHZ BANDWIDTH, DIGITAL DATA CARRIER
26) <u>11</u> 7	700.0000-12200.0000	H,V	100KG7D	Rx			9.0M		38.4 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 100 KHZ BANDWIDTH, DIGITAL DATA CARRIER
27) <u>11</u> 7	700.0000-12200.0000	H,V	240KG7D	Rx			9.0M		153.6 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 240 KHZ BANDWIDTH, DIGITAL DATA CARRIER
28) <u>11</u> 7	700.0000-12200.0000	H,V	480KG7D	Rx			9.0M		307.2 KBPS, 1/2 RATE FEC, MSK MODULATION (QPSK VARIANT), 480 KHZ BANDWIDTH, DIGITAL DATA CARRIER
29) 117	700.0000-12200.0000	H,V	400KG7D	Rx			9.0M		153.6 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 400 KHZ BANDWIDTH, DIGITAL DATA CARRIER
30) <u>11</u> 7	700.0000-12200.0000	H,V	800KG7D	Rx			9.0M		307.2 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 800 KHZ BANDWIDTH, DIGITAL DATA CARRIER
31) <u>11</u> 7	700.0000-12200.0000	H,V	200KG7D	Rx			9.0M		76.8 KBPS, 1/2 RATE FEC, DPSK MODULATION (BPSK VARIANT), 200 KHZ BANDWIDTH, DIGITAL DATA DATA CARRIER
32) 117	700.0000-12200.0000	Η,V	6M10G7D	Rx			9.0M		3,500 KSPS, 1/2 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 6, 100 KHZ BANDWIDTH, DIGITAL DATA CARRIER
33) <u>11</u> 7	200.0000-12200.0000	H,V	8M10G7D	Rx			9.0M		6,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/9 RATE FEC, QPSK MODULATION, 8,100 KHZ BNADWIDTH, DIGITAL DATA CARRIER

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For the text of these provisions, refer to Section H.					Max EIRP	Max EIRP Density		Special Provisions	
Freque # (MH	-	Polarizatio Code	on Emission	Tx/Rx Mode	/Carrier	/Carrier (dBW/4kHz)	Associated Antenna	(Refer to Section H)	Modulation/ Services
34) 11700.0000-	12200.0000	Η,V	10M8G7D	Rx			9.0M		8,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 10,800 KHZ BANDWIDTH, DIGITAL DATA CARRIER
35) 11700.0000-	12200.0000	H,V	16M2G7D	Rx			9.0M		12,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 16,200 KHZ BANDWIDTH, DIGITAL DATA CARRIER
36) 11700.0000-	12200.0000	H,V	21M6G7D	Rx			9.0M		16,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 21,600 KHZ BANDWIDTH, DIGITAL DATA CARRIER
37) 11700.0000-	12200.0000	H,V	36M0G7D	Rx			9.0M		26,700 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 36,000 KHZ BANDWIDTH, DIGITAL DATA CARRIER
38) 11700.0000-	12200.0000	Η, V	43M2G7D	Rx			9.0M		40,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 54,000 KHZ BANDWIDTH, DIGITAL DATA CARRIER
39) 11700.0000-	12200.0000	H,V	54M0G7D	Rx			9.0M		32,000 KSPS, 1/2, 2/3, 3/4, 5/6, 7/8 RATE FEC, QPSK MODULATION, 43,200 KHZ BANDWIDTH, DIGITAL DATA CARRIER
40) 14000.0000-	14500.0000	H,V	1M23G7W	Tx	52.30	27.40	K4.6M		BPSK, DATA
41) 14000.0000-	14500.0000	H,V	2M46G7W	Tx	55.30	27.40	K4.6M		BPSK, DATA
42) 14000.0000-	14500.0000	H,V	307KG7W	Tx	46.30	27.40	K4.6M		BPSK, DATA
43) 14000.0000-	14500.0000	H,V	4M92G7W	Tx	58.30	27.40	K4.6M		BPSK, DATA
44) 14000.0000-	14500.0000	H,V	614KG7W	Tx	49.30	27.40	K4.6M		BPSK, DATA
45) 11700.0000-	12200.0000	H,V	184KG7W	Rx			K4.6M		MSK, DATA
46) 11700.0000-	12200.0000	H,V	369KG7W	Rx			K4.6M		MSK, DATA
47) 11700.0000-	12200.0000	H,V	92K2G7W	Rx			K4.6M		MSK, DATA



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	1				Max EIRP	Max EIRP Density		Special Provisions		
#	Frequency (MHz)	Polarizatio Code	n Emission	Tx/Rx Mode	/Carrier	/Carrier (dBW/4kHz)	Associated Antenna	(Refer to Section H)	Modulation/ Services	
48) 14(000.0000-14500.0000	H,V	1M23G7W	Tx	53.20	28.30	K9.2M		BPSK, DATA	
49) 140	000.0000-14500.0000	H,V	2M46G7W	Tx	56.20	28.30	K9.2M		BPSK, DATA	
50)14(000.0000-14500.0000	H,V	307KG7W	Tx	47.20	28.30	K9.2M		BPSK, DATA	
51) 14(000.0000-14500.0000	H,V	4M92G7W	Tx	59.20	28.30	K9.2M		BPSK, DATA	
52) ₁₄₍	000.0000-14500.0000	H,V	614KG7W	Tx	50.20	28.30	K9.2M		BPSK, DATA	
53) 117	700.0000-12200.0000	H,V	184KG7W	Rx			K9.2M		MSK, DATA	
54) 117	700.0000-12200.0000	H,V	369KG7W	Rx			K9.2M		MSK, DATA	
55) 117	700.0000-12200.0000	H,V	92K2G7W	Rx	0.00	0.00	K9.2M		MSK, DATA	

C) Frequency Coordination Limits

		Satellite Arc (Deg. Long.)	Elevation (Degrees)	Azimuth (Degrees)	Max EIRP Density toward	
#	Frequency Limits (MHz)	East West Limit Limit	East West Limit Limit	East West Limit Limit	Horizon (dBW/4kHz)	Associated Antenna(s)
1)	14000.0000-14500.0000	67.0W-143.0W	46.3-17.4	150.5-251.1	3.2	K9.2M
2)	11700.0000-12200.0000	67.0W-143.0W	46.3-17.4	150.5-251.1		K9.2M
3)	14000.0000-14500.0000	67.0W-143.0W	46.3-17.4	150.5-251.1	-1.1	K4.6M
4)	11700.0000-12200.0000	67.0W-143.0W	46.3-17.4	150.5-251.1		K4.6M
5)	14000.0000-14500.0000	67.0W-129.0W	46.3-28.7	150.5-240.3	-1.9	9.0M
6)	11700.0000-12200.0000	67.0W-129.0W	46.3-28.7	150.5-240.3		9.0M

D) Points of Communications

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

1) HUB M1 to Permitted Space Station List



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E) Antenna Facilities

Sit		Antenna ID	Units	Diameter (meters)	Manufacturer		Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
HUB M1	1	9.0M	1	9	VERTEX INC.		9KPK	295.7	9.1 AGL/ 304.8 AMSI	
		total input	power	at anten	11.8500 GHz na flange (Watts) all carriers (dBW	=	dBi @ 14.250 549.00 87.80	00 GHz		
HUB MI	Max Gai Maximum	total input	power	dBi @ at anten	Andrew Corp. 12.0000 GHz na flange (Watts) all carriers (dBW	55.0 =	ES46 dBi @ 14.000 189.00 77.76		4.7 AGL/ 300.4 AMSI	
HUB M1	Max Gai Maximum	total input	power	at anten	SATCOM TECH 12.0000 GHz na flange (Watts) all carriers (dBW	60.2 =	dBi @ 14.000 493.00 87.13	295.7 00 GHz	9.2 AGL/ 304.9 AMSI	

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.
 - 2068 --- The use of these small diameter earth station facilities is authorized pursuant to the Commission's Declaratory Order in Routine Licensing of Large Networks of Small Antenna Earth Stations Operating in the 12/14 GHz Frequency Bands released April 9, 1986.



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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:
 - 3212 --- The licensee shall take extraordinary measures to ensure that multiple antennas co-located at the same site do not create potential exposure to radiofrequency radiation in excess of FCC safety guidelines. Antennas shall be surrounded by a 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/cm2. 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 locked area. All operations must be in compliance with Section 1.1307 (b)(3) of the Commission's Rules. (See 47 CFR 1.1307 (b) (3)).
- 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.
- 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.