



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: GUSA Licensee LLC

Call Sign: E970381

Authorization Type: Modification of License

File Number: SES-MOD-20201223-01432

Common Carrier

Grant date: 03/19/2021

Expiration Date: 10/04/2024

Nature of Service: Mobile Satellite Service

Class of Station: Mobile Earth Station

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	CONUS, Alaska, Hawaii, Puerto Rico, US Virgin Islands, all US territories, all US WATER,			0	NA

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 October 4, 2009 (3 AM Eastern Standard Time) and ending October 4, 2024 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is March 19, 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)	2483.5000-2500.0000	L	1M23G1W	Rx			A Fixed		CDMA / Voice and data
2)	1610.0000-1618.7250	L	1M23G1W	Tx	8.00	-16.90	A Fixed		CDMA / Voice and data
3)	2483.5000-2500.0000	L	1M23G1W	Rx			A Fixed2		CDMA/Voice and Data
4)	1610.0000-1618.7250	L	1M23G1W	Tx	6.70	-18.20	A Fixed2		CDMA/Voice and Data
5)	2483.5000-2500.0000	L	1M23G1W	Rx			A Fixed3		CDMA/Voice and Data
6)	1610.0000-1618.7250	L	1M23G1W	Tx	7.97	-16.90	A Fixed3		CDMA/Voice and Data
7)	2483.5000-2500.0000	L	1M23G1W	Rx			A Fixed4		CDMA/Voice and Data
8)	1610.0000-1618.7250	L	1M23G1W	Tx	9.80	-15.10	A Fixed4		CDMA/Voice and Data
9)	2483.5000-2500.0000	L	1M23G1W	Rx			Aviation1		CDMA/ for single-carrier AMSS



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10)	1610.0000-1618.7250	L	1M23G1W	Tx	2.00	-22.90	Aviation1		Direct-sequence CDMA for single-carrier AMSS
11)	2483.5000-2500.0000	L	1M23G7W	Rx			Aviation2		Direct-sequence CDMA for multi-carrier air-based or ground-based MSS
12)	1610.0000-1618.7250	L	1M23G7W	Tx	2.00	-15.00	Aviation2		Direct-sequence CDMA for multi-carrier air-based or ground-based MSS
13)	2483.5000-2500.0000	L	1M23G1W	Rx			Handhld		CDMA / Voice and data
14)	1610.0000-1618.7250	L	1M23G1W	Tx	1.00	-23.90	Handhld		CDMA / Voice and data
15)	2483.5000-2500.0000	L	1M23G1W	Rx			Handhld2		CDMA/Voice and Data
16)	1610.0000-1618.7250	L	1M23G1W	Tx	0.00	-24.90	Handhld2		CDMA/Voice and Data
17)	2483.5000-2500.0000	H, V, L, R	4M50G7D	Rx	0.00		Handhld3		Burst mode packet data with 2-BPSK modulation
18)	1610.0000-1618.7250	H, V, L, R	200KG1D	Tx	0.00	-17.00	Handhld3		Burst mode packet data with BPSK modulation
19)	1610.0000-1618.7250	H, V, L, R	230KG1D	Tx	0.00	-17.00	Handhld3		Burst mode packet data with BPSK modulation
20)	1610.0000-1618.7250	H, V, L, R	280KG1D	Tx	0.00	-17.00	Handhld3		Burst mode packet data with BPSK modulation
21)	2483.5000-2500.0000	L	1M23G7W	Rx			MCM-4		Direct-sequence CDMA for four-channel voice and data
22)	1610.0000-1618.7250	L	1M23G7W	Tx	7.50	-17.40	MCM-4		Direct-sequence CDMA for four-channel voice and data
23)	2483.5000-2500.0000	L	1M23XXX	Rx			PTracker		DATA
24)	1610.0000-1618.7250	L	2M50G1D	Tx	-3.00	-31.00	PTracker		Direct-sequence CDMA for single-carrier telemetry data
25)	2483.5000-2500.0000	L	1M23G1W	Rx			SDM		CDMA/Voice and Data
26)	1610.0000-1618.7250	L	1M23G1W	Tx	4.50	-20.40	SDM		CDMA/Voice and Data
27)	2483.5000-2500.0000	L	1M23G1W	Rx			SDVM		CDMA/Voice and 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
28)	1610.0000-1618.7250	L	1M23G1W	Tx	4.00	-20.90	SDVM		CDMA/Voice and Data
29)	2483.5000-2500.0000	L	1M23XXX	Rx			Telemetry		DATA
30)	1610.0000-1618.7250	L	2M50G1D	Tx	0.00	-28.00	Telemetry		Direct-sequence CDMA for single-carrier telemetry data
31)	2483.5000-2500.0000	L	1M23G1W	Rx			V Mobile		CDMA / Voice and data
32)	1610.0000-1618.7250	L	1M23G1W	Tx	9.00	-15.90	V Mobile		CDMA / Voice and data
33)	2483.5000-2500.0000	L	1M23G1W	Rx			V Mobile2		CDMA/Voice and Data
34)	1610.0000-1618.7250	L	1M23G1W	Tx	5.00	-19.90	V Mobile2		CDMA/Voice and Data
35)	2483.5000-2500.0000	L	1M23G1W	Rx			V Mobile3		CDMA/Voice and Data
36)	1610.0000-1618.7250	L	1M23G1W	Tx	4.00	-20.90	V Mobile3		CDMA/Voice 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)	2483.5000-2500.0000		NGSO		10.0-10.0		-360.0	0	Handhld
2)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-31	Handhld
3)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-24	V Mobile
4)	2483.5000-2500.0000		NGSO		10.0-10.0		-360.0		V Mobile
5)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-24	A Fixed
6)	2483.5000-2500.0000		NGSO		10.0-10.0		-360.0		A Fixed
7)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-30	Aviation1
8)	2483.5000-2500.0000		NGSO		10.0-10.0		-360.0		Aviation1
9)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-30	Telemetry
10)	2483.5000-2500.0000		NGSO		10.0-10.0		-360.0		Telemetry
11)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-22.1	Aviation2
12)	2483.5000-2500.0000		NGSO		10.0-10.0		-360.0		Aviation2
13)	1610.0000-1618.7250		NGSO		10.0-10.0		-360.0	-29.8	Handhld2



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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		
14)	2483.5000-2500.0000		NGSO	10.0	-10.0	000.0	-360.0		Handhld2
15)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-28	V Mobile3
16)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			V Mobile3
17)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-20	A Fixed4
18)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			A Fixed4
19)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-24.5	MCM-4
20)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			MCM-4
21)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-28	SDVM
22)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0		0	SDVM
23)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-27	V Mobile2
24)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			V Mobile2
25)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-25.3	A Fixed2
26)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			A Fixed2
27)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-24	A Fixed3
28)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			A Fixed3
29)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-27.5	SDM
30)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			SDM
31)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-17	Handhld3
32)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			Handhld3
33)	1610.0000-1618.7250		NGSO	10.0	-10.0	-360.0		-30	PTracker
34)	2483.5000-2500.0000		NGSO	10.0	-10.0	-360.0			PTracker

D) Points of Communications

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

- 1) 1 to GLOBALSTAR NGSO MSS (S2115) (U.S. licensed satellite)
- 2) 1 to GLOBALSTAR 2.0 NGSO MSS (France-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	A Fixed	25000	0.08	Tele Communications, Inc. for Qualcomm	Ancillary fixed 0	0	6.1 AGL	
	Max Gains(s):	4.0 dBi @	1.6183 GHz					
	Maximum total input power at antenna flange (Watts) =				2.50			
	Maximum aggregate output EIRP for all carriers (dBW) =				8.00			
1	A Fixed2	5000	0.08	Qualcomm	GSP-2900	0	6.1 AGL	
	Max Gains(s):	7.0 dBi @	1.6183 GHz					
	Maximum total input power at antenna flange (Watts) =				.93			
	Maximum aggregate output EIRP for all carriers (dBW) =				6.70			
1	A Fixed3	5000	0.08	Ericsson	FAU-200	0	6.1 AGL	
	Max Gains(s):	4.0 dBi @	1.6183 GHz					
	Maximum total input power at antenna flange (Watts) =				2.50			
	Maximum aggregate output EIRP for all carriers (dBW) =				7.97			
1	A Fixed4	75000	0.08	VARIOUS	VARIOUS	0	6.1 AGL	
	Max Gains(s):	4.4 dBi @	1.6183 GHz					
	Maximum total input power at antenna flange (Watts) =				3.50			
	Maximum aggregate output EIRP for all carriers (dBW) =				9.80			
1	Aviation1	5000	0.08	ARNAV (Size: 3.93"Lx3"Wx0.88"D)	RCOM-100	0	20000 AGL	
	Max Gains(s):	5.0 dBi @	1.6169 GHz					
	Maximum total input power at antenna flange (Watts) =				.50			
	Maximum aggregate output EIRP for all carriers (dBW) =				2.00			
1	Aviation2	5000	0.08	Qualcomm (Size: 3.93"Lx3"Wx0.88"D)	MDSS	0	20000 AGL	
	Max Gains(s):	5.0 dBi @	1.6169 GHz					
	Maximum total input power at antenna flange (Watts) =				3.10			
	Maximum aggregate output EIRP for all carriers (dBW) =				9.90			



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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	SDVM	100000	0.08	Tecom for Richardson Electronics	GSP-1720	0	500 AGL	
	Max Gains(s):		5.0 dBi @	1.6183 GHz				
	Maximum total input power at antenna flange (Watts) =					.79		
	Maximum aggregate output EIRP for all carriers (dBW) =					4.00		
1	Telemetry	740000	0.08	VARIOUS	VARIOUD	0	20000 AGL	
	Max Gains(s):		5.0 dBi @	1.6169 GHz				
	Maximum total input power at antenna flange (Watts) =					.40		
	Maximum aggregate output EIRP for all carriers (dBW) =					.99		
1	V Mobile	500000	0.08	VARIOUS	VARIOUS	0	0.9 AGL	
	Max Gains(s):		5.0 dBi @	1.6183 GHz				
	Maximum total input power at antenna flange (Watts) =					2.50		
	Maximum aggregate output EIRP for all carriers (dBW) =					8.00		
1	V Mobile2	30000	0.08	Qualcomm	GCK-1410	0	0.9 AGL	
	Max Gains(s):		7.0 dBi @	1.6183 GHz				
	Maximum total input power at antenna flange (Watts) =					.63		
	Maximum aggregate output EIRP for all carriers (dBW) =					5.00		
1	V Mobile3	100000	0.08	Tecom for Richardson Electronics	Vehicular Mobile 3	0	0.9 AGL	
	Max Gains(s):		5.0 dBi @	1.6183 GHz				
	Maximum total input power at antenna flange (Watts) =					.79		
	Maximum aggregate output EIRP for all carriers (dBW) =					4.00		

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions



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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:

- 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.
- 5747 --- Licensee's mobile earth station terminals operating on board aircraft shall comply with all applicable Federal Aviation Administration and International Civil Aviation Organization (ICAO) rules and regulations and all other international agreements in forces to which the United States is a party.
- 5749 --- Licensee's mobile earth station terminals operating on board aircraft shall comply with the Section 87.147(d) of the Commission's Rules. See 47 C.F.R. Section 87.147(d).
- 5788 --- This authorization is subject to the conditions and terms set forth in the Commission's Order and Authorization, DA 99-2010, released October 4, 1999.
- 5852 --- The authorized mobile earth terminals (METs) shall comply with the out-of-band emission limits set forth in Sections 25.202(f) and 25.216 of the Commission's rules. See 47 C.F.R. §§ 25.202(f) and 25.216; Out-of-Band Emission Orders, FCC 02-34 (rel. May 14, 2002), as amended by FCC-03-0283 (rel. November 18, 2003).
- 5858 --- This authorization does not permit the licensee to provide common carrier services outside of the United States. If licensee wishes to provide such service, it must obtain authority pursuant to Section 214 of the Communication Act, 47 U.S.C. § 214, before doing so.
- 5917 --- All transmitting mobile devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 2.1091(d) (3) of the Commission's rules. See 47 CFR 2.1091(d) (3).
- 90009 --- 1) Operation shall be in compliance with any restrictions established in the course of international coordination for Globalstar second generation satellites pursuant to ITU regulations.
- 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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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.
- 90626 --- The following bands: 13553-13567 kHz (centre frequency 13560 kHz), 26957-27283 kHz (centre frequency 27120 kHz), 40.66-40.70 MHz (centre frequency 40.68 MHz), 902-928 MHz in Region 2 (centre frequency 915 MHz), 2400-2500 MHz (centre frequency 2450 MHz), 5725-5875 MHz (centre frequency 5800 MHz), and 24-24.25 GHz (centre frequency 24.125 GHz) are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. 15.13. 47 C.F.R. § 2.106, Note: 5.150
- 90627 --- The use of the band 2483.5-2500 MHz by the mobile-satellite and the radiodetermination-satellite services is subject to the coordination under No. 9.11A. Administrations are urged to take all practicable steps to prevent harmful interference to the radio astronomy service from emissions in the 2483.5-2500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4990-5000 MHz band allocated to the radio astronomy service worldwide. 47 C.F.R. § 2.106, Note: 5.402
- 90628 --- In the band 2450-2500 MHz, the Federal radiolocation service is permitted on condition that harmful interference is not caused to non-Federal services. 47 C.F.R. § 2.106, Note: US41
- 90629 --- The use of the band 1613.8-1626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under No. 9.11A. 47 C.F.R. § 2.106, Note: 5.365
- 90630 --- 5.372 Harmful interference shall not be caused to stations of the radio astronomy service using the band 1610.6-1613.8 MHz by stations of the radiodetermination-satellite and mobile-satellite services (No. 29.13 applies). 47 C.F.R. § 2.106, Note: 5.372
- 90631 --- In the bands 137-138 MHz, 148-149.9 MHz, 149.9-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 1610-1626.5 MHz, and 2483.5-2500 MHz, Federal stations in the mobile-satellite service shall be limited to earth stations operating with non-Federal space stations. 47 C.F.R. § 2.106, Note: US319



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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:

900412 --- In addition to the earth stations authorized above, Globalstar is also authorized to operate a terrestrial low-power ATC network in the 2483.5-2495 MHz frequency band pursuant to rules adopted in Terrestrial Use of the 2473-2495 MHz Band for Low-Power Mobile Broadband Networks; Amendments to Rules for the Ancillary Terrestrial Component of Mobile Satellite Service Systems, Report and Order, FCC 16-181 (2016). Operations of the Globalstar terrestrial low-power ATC network in the 2483.5-2495 MHz frequency band are subject to the 2008 agreement reached between Globalstar and the National Telecommunications and Information Association (NTIA) concerning out-of-band emissions limits into the 1559-1610 MHz frequency band. See Globalstar License LLC, Order and Authorization, FCC 08-254, 23 FCC Rcd 15975 (2008). ATC base stations and mobile transceivers operating with the Globalstar terrestrial low-power ATC network must be certified as specified in Section 25.149(c) of the Commission's rules. See 47 CFR § 25.149(c). Authority to operate the Globalstar terrestrial low-power ATC network will terminate if Globalstar's Mobile-Satellite Service (MSS) ceases to be commercially available in the United States, as required by Section 25.149(b)(3) of the Commission's rules. See 47 CFR § 25.149(b)(3). Globalstar must inform the Commission in writing if its MSS ceases to be commercially available in the United States. ATC operations are permitted on a non-common carrier basis.



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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.