



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Iridium Carrier Services LLC

Call Sign: E960622

Authorization Type: Renewal of License

File Number: SES-RWL-20210929-01675

Common Carrier

Grant date: 10/01/2021

Expiration Date: 10/30/2036

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)	AMS (R) S	20,000 AMS(R)S terminals Operating aboard aircraft McLean, Fairfax, VA 22102				NA
2)	Iridium Certus	1750 Tysons Boulevard, Suite 1400 0.312M. 50,000 units McLean, Fairfax, VA Fairfax				NA
3)	LiveTV	0.407M. 50,000 units (LiveTV) Mobile,				NA
4)	METS	(200,000) Mobile Earth station Terminals Operating in the US&P Mobile,			0	NA
5)	OpenPort	(0.525 M.) 50,000 units Mobile,				NA

Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.

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 30, 2021 (3 AM Eastern Standard Time) and ending October 30, 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.



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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
1)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-1		Voice and Data; DQPSK
2)	1618.7250-1626.5000	R	41K7Q7W	Tx	9.00	-10.80	AMS (R) S-1	90266	Voice and Data; DQPSK
3)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-2		Voice and Data; DQPSK
4)	1618.7250-1626.5000	R	41K7Q7W	Tx	8.00	-11.80	AMS (R) S-2	90266	Voice and Data; DQPSK
5)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-3		Voice and Data; DQPSK
6)	1618.7250-1626.5000	R	41K7Q7W	Tx	9.00	-10.80	AMS (R) S-3	90266	Voice and Data; DQPSK
7)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-4		Voice and Data; DQPSK
8)	1618.7250-1626.5000	R	41K7Q7W	Tx	9.00	-10.80	AMS (R) S-4	90266	Voice and Data; DQPSK
9)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-5		Voice and Data; DQPSK
10)	1618.7250-1626.5000	R	41K7Q7W	Tx	6.00	-13.80	AMS (R) S-5	90266	Voice and Data; DQPSK
11)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-6		Voice and Data; DQPSK
12)	1618.7250-1626.5000	R	41K7Q7W	Tx	9.00	-10.80	AMS (R) S-6	90266	Voice and Data; DQPSK
13)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-7		Voice and Data; DQPSK
14)	1618.7250-1626.5000	R	41K7Q7W	Tx	9.00	-10.80	AMS (R) S-7	90266	Voice and Data; DQPSK
15)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-8		Voice and Data; DQPSK
16)	1618.7250-1626.5000	R	41K7Q7W	Tx	8.50	-11.30	AMS (R) S-8	90266	Voice and Data; DQPSK
17)	1618.7250-1626.5000	R	41K7Q7W	Rx			AMS (R) S-9		Voice and Data; DQPSK
18)	1618.7250-1626.5000	R	41K7Q7W	Tx	8.50	-11.30	AMS (R) S-9	90266	Voice and Data; DQPSK
19)	1618.7250-1626.5000	R	333KQ7W	Rx			Aero 1-C		QPSK Voice & Data
20)	1618.7250-1626.5000	R	41K7Q7W	Rx			Aero 1-C		QPSK Voice & Data
21)	1618.7250-1626.5000	R	83K3Q7W	Rx			Aero 1-C		QPSK Voice & Data
22)	1618.7250-1626.5000	R	333KQ7W	Rx			Aero 1-C		16 APSK Voice & Digital
23)	1618.7250-1626.5000	R	41K7Q7W	Tx	11.70	2.70	Aero 1-C		QPSK Voice & Data
24)	1618.7250-1626.5000	R	41K7Q7W	Tx	14.30	5.20	Aero 1-C		QPSK Voice & Data



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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
25)	1618.7250-1626.5000	R	83K3Q7W	Tx	14.50	2.40	Aero 1-C		QPSK Voice & Data
26)	1618.7250-1626.5000	R	333KQ7W	Tx	14.30	-3.80	Aero 1-C		QPSK Voice & Data
27)	1618.7250-1626.5000	R	333KQ7W	Tx	21.20	3.10	Aero 1-C		16 APSK Voice & Digital
28)	1618.7250-1626.5000	R	41K7Q7W	Tx	14.30	5.20	Aero 1-T		QPSK Voice & Data
29)	1618.7250-1626.5000	R	83K3Q7W	Tx	14.50	2.40	Aero 1-T		QPSK Voice & Data
30)	1618.7250-1626.5000	R	333KQ7W	Tx	21.20	3.10	Aero 1-T		16 APSK Voice & Digital
31)	1618.7250-1618.7250	R	333KQ7W	Rx			Aero 1-T		QPSK Voice & Data
32)	1618.7250-1618.7250	R	41K7Q7W	Rx			Aero 1-T		QPSK Voice & Data
33)	1618.7250-1618.7250	R	83K3Q7W	Rx			Aero 1-T		QPSK Voice & Data
34)	1618.7250-1618.7250	R	333KQ7W	Rx			Aero 1-T		16 APSK Voice & Digital
35)	1618.7250-1618.7250	R	41K7Q7W	Tx	11.70	2.70	Aero 1-T		QPSK Voice & Data
36)	1618.7250-1618.7250	R	333KQ7W	Tx	14.30	-3.80	Aero 1-T		QPSK Voice & Data
37)	1618.7250-1626.5000	R	333KQ7W	Rx			Aero 2-T		QPSK Voice & Data
38)	1618.7250-1626.5000	R	41K7Q7W	Rx			Aero 2-T		QPSK Voice & Data
39)	1618.7250-1626.5000	R	83K3Q7W	Rx			Aero 2-T		QPSK Voice & Data
40)	1618.7250-1626.5000	R	333KQ7W	Rx			Aero 2-T		16 APSK Voice & Digital
41)	1618.7250-1626.5000	R	41K7Q7W	Tx	11.70	2.70	Aero 2-T		QPSK Voice & Data
42)	1618.7250-1626.5000	R	41K7Q7W	Tx	14.30	5.20	Aero 2-T		QPSK Voice & Data
43)	1618.7250-1626.5000	R	83K3Q7W	Tx	14.50	2.40	Aero 2-T		QPSK Voice & Data
44)	1618.7250-1626.5000	R	333KQ7W	Tx	14.30	-3.80	Aero 2-T		QPSK Voice & Data
45)	1618.7250-1626.5000	R	333KQ7W	Tx	21.20	3.10	Aero 2-T		16 APSK Voice & Digital
46)	1618.7250-1626.5000	R	41K7Q7W	Rx			Handheld		DPSK
47)	1618.7250-1626.5000	R	41K7Q7W	Tx	11.95	3.99	Handheld	90263	DPSK
48)	1618.7250-1626.5000	R	667KQ7W	Rx			LIVETV		FDMA/TDMA/TDD



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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
49)	1618.7250-1626.5000	R	667KQ7W	Tx	6.40	-13.60	LIVETV	90265	FDMA/TDMA/TDD
50)	1618.7250-1626.5000	R	333KQ7W	Rx			LandMobile		QPSK Voice & Data
51)	1618.7250-1626.5000	R	41K7Q7W	Rx			LandMobile		QPSK Voice & Data
52)	1618.7250-1626.5000	R	83K3Q7W	Rx			LandMobile		QPSK Voice & Data
53)	1618.7250-1626.5000	R	333KQ7W	Rx			LandMobile		16 APSK Voice & Digital
54)	1618.7250-1626.5000	R	41K7Q7W	Tx	11.70	2.70	LandMobile		QPSK Voice & Data
55)	1618.7250-1626.5000	R	41K7Q7W	Tx	14.30	5.20	LandMobile		QPSK Voice & Data
56)	1618.7250-1626.5000	R	83K3Q7W	Tx	14.50	2.40	LandMobile		QPSK Voice & Data
57)	1618.7250-1626.5000	R	333KQ7W	Tx	14.30	-3.80	LandMobile		QPSK Voice & Data
58)	1618.7250-1626.5000	R	333KQ7W	Tx	21.20	3.10	LandMobile		16 APSK Voice & Digital
59)	1618.7250-1626.5000	R	333KQ7W	Rx			Maritime		QPSK Voice & Data
60)	1618.7250-1626.5000	R	41K7Q7W	Rx			Maritime		QPSK Voice & Data
61)	1618.7250-1626.5000	R	83K3Q7W	Rx			Maritime		QPSK Voice & Data
62)	1618.7250-1626.5000	R	333KQ7W	Rx			Maritime		16 APSK Voice & Digital
63)	1618.7250-1626.5000	R	41K7Q7W	Tx	11.70	2.70	Maritime		QPSK Voice & Data
64)	1618.7250-1626.5000	R	41K7Q7W	Tx	14.30	5.20	Maritime		QPSK Voice & Data
65)	1618.7250-1626.5000	R	83K3Q7W	Tx	14.50	2.40	Maritime		QPSK Voice & Data
66)	1618.7250-1626.5000	R	333KQ7W	Tx	14.30	-3.80	Maritime		QPSK Voice & Data
67)	1618.7250-1626.5000	R	333KQ7W	Tx	21.20	3.10	Maritime		16 APSK Voice & Digital
68)	1618.7250-1626.5000	R	667KQ7W	Rx			OpenPort1		FDMA/TDMA/TDD
69)	1618.7250-1626.5000	R	667KQ7W	Tx	9.40	-10.60	OpenPort1	90264	FDMA/TDMA/TDD



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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		
1)	1618.7250-1626.5000	NGSO							Handheld
2)	1618.7250-1626.5000	NGSO							OpenPort1
3)	1618.7250-1626.5000	NGSO							LIVETV
4)	1618.7250-1626.5000	NGSO							AMS (R) S-1
5)	1618.7250-1626.5000	NGSO							AMS (R) S-2
6)	1618.7250-1626.5000	NGSO							AMS (R) S-3
7)	1618.7250-1626.5000	NGSO							AMS (R) S-4
8)	1618.7250-1626.5000	NGSO							AMS (R) S-5
9)	1618.7250-1626.5000	NGSO							AMS (R) S-6
10)	1618.7250-1626.5000	NGSO							AMS (R) S-7
11)	1618.7250-1626.5000	NGSO							AMS (R) S-8
12)	1618.7250-1626.5000	NGSO							AMS (R) S-9
13)	1618.7250-1626.5000	NGSO		08.2-08.2				1.7	Aero 1-T
14)	1618.7250-1626.5000	NGSO		08.2-08.2				1.7	Aero 2-T
15)	1618.7250-1626.5000	NGSO		08.2-08.2				1.7	Aero 1-C
16)	1618.7250-1626.5000	NGSO		08.2-08.2				1.7	Maritime
17)	1618.7250-1626.5000	NGSO		08.2-08.2				1.7	LandMobile

D) Points of Communications

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

- 1) METS to IRIDIUM NGSO MSS (S2110) (U.S.-licensed)
- 2) OpenPort to IRIDIUM NGSO MSS (S2110) (U.S.-licensed)
- 3) LiveTV to IRIDIUM NGSO MSS (S2110) (U.S.-licensed)
- 4) AMS(R)S to IRIDIUM NGSO MSS (S2110) (U.S.-licensed)
- 5) Iridium Certus to IRIDIUM NGSO MSS (S2110) (U.S.-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)
AMS (R) S	AMS (R) S-1	20000	0.21	Aero Antenna	AT1621-23 Dual Patch			
Max Gains(s):		2.0 dBi @	1.6210 GHz					
Maximum total input power at antenna flange (Watts) =						5.16		
Maximum aggregate output EIRP for all carriers (dBW) =						9.00		
AMS (R) S	AMS (R) S-2	1	0.089	Aero Antenna	AT2775-110 Single Pa			
Max Gains(s):		1.0 dBi @	1.6210 GHz					
Maximum total input power at antenna flange (Watts) =						5.16		
Maximum aggregate output EIRP for all carriers (dBW) =						8.00		
AMS (R) S	AMS (R) S-3	1	0.089	Sensor Systems	S67-1575-409 Single			
Max Gains(s):		2.0 dBi @	1.6210 GHz					
Maximum total input power at antenna flange (Watts) =						5.16		
Maximum aggregate output EIRP for all carriers (dBW) =						9.00		
AMS (R) S	AMS (R) S-4	1	0.21	Sensor Systems	S67-1575-365 Dual Pa			
Max Gains(s):		2.0 dBi @	1.6210 GHz					
Maximum total input power at antenna flange (Watts) =						5.16		
Maximum aggregate output EIRP for all carriers (dBW) =						9.00		
AMS (R) S	AMS (R) S-5	1	0.21	Sensor Systems	S67-1575-168 Singl			
Max Gains(s):		-1.0 dBi @	1.6210 GHz					
Maximum total input power at antenna flange (Watts) =						5.16		
Maximum aggregate output EIRP for all carriers (dBW) =						6.00		
AMS (R) S	AMS (R) S-6	1	0.21	Sensor Systems	S67-1575-160 Single			
Max Gains(s):		2.0 dBi @	1.6210 GHz					
Maximum total input power at antenna flange (Watts) =						5.16		
Maximum aggregate output EIRP for all carriers (dBW) =						9.00		



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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)
AMS (R) S	AMS (R) S-7	1	0.089	Cobham	Comant CI 490-1 Sing			
Max Gains(s): 2.0 dBi @ 1.6210 GHz								
Maximum total input power at antenna flange (Watts) =					5.16			
Maximum aggregate output EIRP for all carriers (dBW) =					9.00			
AMS (R) S	AMS (R) S-8	1	0.001	Antcom	S4IR16RR-P-XX-X Sing			
Max Gains(s): 1.5 dBi @ 1.6210 GHz								
Maximum total input power at antenna flange (Watts) =					5.16			
Maximum aggregate output EIRP for all carriers (dBW) =					8.50			
AMS (R) S	AMS (R) S-9	1	0.102	Antcom	S5GIR121RR-AP-XT Si			
Max Gains(s): 1.5 dBi @ 1.6210 GHz								
Maximum total input power at antenna flange (Watts) =					5.16			
Maximum aggregate output EIRP for all carriers (dBW) =					8.50			
Iridium Certus	Aero 1-C	10000	0.312	Cobham	General Aviation			
Max Gains(s): 11.8 dBi @ 1.6210 GHz								
Maximum total input power at antenna flange (Watts) =					57.50			
Maximum aggregate output EIRP for all carriers (dBW) =					27.70			
Iridium Certus	Aero 1-T	10000	0.312	Thales	General Aviation			
Max Gains(s): 11.8 dBi @ 1.6210 GHz								
Maximum total input power at antenna flange (Watts) =					57.50			
Maximum aggregate output EIRP for all carriers (dBW) =					27.70			
Iridium Certus	Aero 2-T	10000	0.312	Thales	AMS (R) S			
Max Gains(s): 11.8 dBi @ 1.6210 GHz								
Maximum total input power at antenna flange (Watts) =					57.50			
Maximum aggregate output EIRP for all carriers (dBW) =					27.70			



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F) Remote Control Point:

Iridium Certus	8440 South River Parkway Tempe, Maricopa, AZ 85284 1-480-752-5111	Call Sign: E960131
LiveTV	8440 South River Parkway Tempe, Maricopa, AZ 85284 (240) 515-0148	Call Sign: E960131
METS	8440 South River Parkway Tempe, Maricopa, AZ 85284 240 515 0148	Call Sign: N/A
OpenPort	8440 South River Parkway Tempe, Maricopa, AZ 85284 (240) 515-0148	Call Sign: E960131

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.

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

20 --- Iridium Certus antenna operations are authorized pursuant to the Commission's Order (DA 18-214) released March 6, 2018.

90145 --- The licensee must commence operations and notify the Commission within twelve months of the date of grant of this authorization. See 47 C.F.R. § 25.133(a)(2).

90263 --- The Max EIRP/Carrier for Antenna ID "Handheld" reflects the sum of the maximum flange power and the antenna gain. The Handheld Max EIRP Density/Carrier reflects the Max EIRP/Carrier (11.95 dBW) divided by the occupied bandwidth of 25kHz normalized to a 4kHz bandwidth.



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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:

90264 --- The Max EIRP/Carrier for Antenna ID "OpenPort" reflects the sum of the maximum flange power adjusted for the transmitted duty cycle and the antenna gain. The OpenPort Max EIRP Density/Carrier reflects the maximum EIRP (9.4 dBW) divided by 16 times the occupied subcarrier bandwidth of 25kHz, which each equals 400 kHz, normalized to a 4kHz bandwidth.

90265 --- The Max EIRP/Carrier for Antenna ID "LiveTV " reflects the sum of the maximum flange power adjusted for the transmitted duty cycle and the antenna gain. The Live TV Max EIRP Density/Carrier reflects the maximum EIRP (6.4 dBW) divided by carrier bandwidth of 25kHz normalized to a 4kHz segment.

90266 --- The Max EIRP/Carrier for Antenna ID "AMS(R)S-X" reflects the sum of the maximum flange power adjusted for the transmitted duty cycle and the antenna gain. The AMS(R)S Max EIRP Density/Carrier reflects the maximum EIRP (dBW) divided by occupied bandwidth of 35kHz normalized to a 4kHz.

90267 --- Operations are subject to ITU Radio Regulations 5.364, 5.365, 5.366, 5.367, and 5.368.

90268 --- Site ID AMS(R)S authorizes both AMSS and AMS(R)S operations. AMSR(S) operations are limited to remote, oceanic, and polar regions

90294 --- Operations shall comply with Section 25.213 of the Commission rules, 47 C.F.R. § 25.213.

90299 --- 20,000 AMS(R)S terminals are authorized for operation aboard U.S commercial aircraft, wherever located, and aboard non-U.S. commercial aircraft located in U.S. and over adjacent waters.

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.



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Expiration Date: 10/30/2036

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.