



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION**

Name: Panasonic Avionics Corporation

Call Sign: E100089

Authorization Type: Modification of License

File Number: SES-MFS-20120913-00818

Non Common Carrier

Grant date: 07/24/2013

Expiration Date: 08/31/2026

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)	AURA LE Remotes	Operate up to 2000 antennas (0.89 m) USA AND GLOBAL				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.						
2)	MELCO Remotes	Operate up to 50 antennas (0.68 m) CONUS, AK, HI and U.S. Territories				83
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 August 31, 2011 (3 AM Eastern Standard Time) and ending August 31, 2026 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is July 24, 2014 (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)	14000.0000-14400.0000	H,V	160KG7D	Tx	24.60	8.60	A		BPSK, QPSK digital data
2)	14000.0000-14400.0000	H,V	2M56G7D	Tx	36.70	8.60	A		BPSK, QPSK digital data
3)	14000.0000-14400.0000	H,V	9M00G7D	Tx	42.10	8.60	A		BPSK, QPSK digital data
4)	11700.0000-12200.0000	H,V	160KG7D	Rx			A		BPSK, QPSK digital data
5)	11700.0000-12200.0000	H,V	2M56G7D	Rx			A		BPSK, QPSK digital data



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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.

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6)	11700.0000-12200.0000	H, V	9M00G7D	Rx			A		BPSK, QPSK digital data
7)	14000.0000-14500.0000	H, V	500KG7D	Tx	43.00	22.80	B		BPSK, SPREAD SPECTRUM
8)	14000.0000-14500.0000	H, V	9M00G7D	Tx	48.00	15.30	B		BPSK, SPREAD SPECTRUM
9)	11450.0000-12750.0000	H, V	1M20G7D	Rx			B		PSK
10)	11450.0000-12750.0000	H, V	36M0G7D	Rx			B		PSK
11)	11450.0000-12750.0000	H, V	72M0G7D	Rx			B		PSK

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)	11700.0000-12200.0000	63.0W	91.0W	05.0	05.0	000.0	000.0	-7.6	A
2)	14000.0000-14400.0000	63.0W	91.0W	05.0	05.0	000.0	000.0	-7.6	A
3)	14000.0000-14500.0000	180.0W	180.0W	10.0	10.0	090.0	270.0	-5.5	B
4)	11450.0000-12750.0000	180.0W	180.0W	10.0	10.0	090.0	270.0		B

D) Points of Communications

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

- 1) MELCO Remotes to GALAXY 17 (S2715) @ 91° W.L. (U.S.-licensed)
- 2) AURA LE Remotes to EUTELSAT 172A (S2610) @ 172° E.L. (formerly GE-23) (U.S.-licensed)
- 3) AURA LE Remotes to Estrela do Sul 2 (S2821) @ 63° W.L. (Brazil)
- 4) AURA LE Remotes to Eutelsat 10A (W2A) (NUS0311) @ 10° E.L. (France)
- 5) AURA LE Remotes to ANIK F1 (S2745) @ 107.3° W.L. (Canada)
- 6) AURA LE Remotes to TELSTAR 11N (S2357) @ 37.55° W.L. (U.S.- licensed)
- 7) AURA LE Remotes to INTELSAT 14 (S2785) @ 45° W.L. (U.S.-licensed)
- 8) AURA LE Remotes to AMAZONAS 2 (S2793) @ 61° W.L. (Brazil)
- 9) AURA LE Remotes to GALAXY 17 (S2715) @ 91° W.L. (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)
MELCO Remote	A	50	0.68	Mitsubishi Electronics	726-20176-101		0 AGL/ 0 AMSL	
Max Gains(s) :		32.2 dBi @	14.2500 GHz	31.6 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =						9.90		
Maximum aggregate output EIRP for all carriers (dBW) =						42.10		
AURA LE Remotes	B	2000	0.89	PANASONIC	AURA LE			
Max Gains(s) :		37.3 dBi @	14.0500 GHz	37.0 dBi @	14.2500 GHz	36.5 dBi @		
		14.4500 GHz	36.7 dBi @	12.7500 GHz	35.7 dBi @	11.2500 GHz	36.2	
		dBi @	12.0000 GHz					
Maximum total input power at antenna flange (Watts) =						16.00		
Maximum aggregate output EIRP for all carriers (dBW) =						48.00		

F) Remote Control Point:

AURA LE 26200 Enterprise Way, (.89 M. antennas) Call Sign: N/A
Remotes

Lake Forest, Orange, CA 92630
425-415-9800

MELCO 26200 Enterprise Way, (.68 cm antennas) Call Sign: N/A
Remotes

Lake Forest, Orange, CA 92630
425-415-9800

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:

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.



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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:

- 1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
- 2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 90053 --- The licensee shall take all necessary measures to ensure that the antenna 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 wherever such exposures might occur. 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. 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/rlfsafety) 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. The licensee shall ensure installation of terminals on aircraft by qualified installers who have an understanding of the antenna's radiation environment and the measures best suited to maximize protection of the general public and persons operating the aircraft and equipment. A terminal exhibiting radiation exposure levels exceeding 1.0 mW/cm² in accessible areas, such as at the exterior surface of the radome, shall have a label attached to the surface of the terminal warning about the radiation hazard and shall include thereon a diagram showing the regions around the terminal where the radiation levels could exceed 1.0 mW/cm².
- 90054 --- Operations authorized pursuant to this license are operations by U.S.-registered aircraft anywhere within the coverage area/frequency bands identified in the application for the satellites listed as points of communication. Operations authorized pursuant to this license also include operations by non-U.S.-registered aircraft within U.S. territory, including territorial waters.
- 90057 --- Operation pursuant to this authorization must be in compliance with the terms of the licensee's coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of aircraft earth stations in the Ku-Band.



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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:

- 90061 --- When operating in international airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have a primary allocation in the 14.0-14.5 GHz band, an aircraft earth station must not produce ground-level power flux density (pfd) in such territory in excess of the following values unless the foreign administration has imposed other conditions for protecting its FS stations: $-132 + 0.5 \times \text{THETA}$ dB(W/(m² MHz)) for $\text{THETA} \leq 40^\circ$; -112 dB(W/(m² MHz)) for $40^\circ < \text{THETA} \leq 90^\circ$. Where: THETA is the angle of arrival of the radio-frequency wave in degrees above the horizontal, and the aforementioned limits relate to the pfd and angles of arrival that would be obtained under free space propagation conditions.
- 90062 --- Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.
- 90064 --- Aircraft earth stations authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
- 90065 --- Aircraft earth stations authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each aircraft earth station to determine if it is malfunctioning, and each aircraft earth station must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 90066 --- Stations authorized herein must not be used to provide air traffic control communications.
- 90067 --- Operation in the territory or airspace of any country other than the United States must be in compliance with the applicable laws, regulations, and licensing procedures of that country, as well as with the conditions of this authorization.
- 90068 --- The licensee must maintain records of the following data for each operating aircraft earth station: location (latitude, longitude, altitude); aircraft attitude (pitch, yaw, roll); transmit frequency and occupied bandwidth; data rate; EIRP; and target satellite. This data must be recorded at intervals of no more than two minutes while an aircraft earth station is transmitting and every 30 seconds when aircraft roll angle is greater than 10 degrees. The licensee must also record instances when aircraft earth station pointing error exceeds 0.2 degrees. The licensee must make this data available upon request to a fixed-satellite service system operator or the Commission within 24 hours after receiving the request.



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

- 90071 --- Waiver of the Table of Frequency Allocation, Section 2.106 of the Commission's rules, 47 C.F.R. § 2.106, is granted for space-to-Earth operations, on an unprotected, non-interference basis, in the 11.7-12.2 GHz, 10.95-11.2 GHz, and 11.45-11.7 GHz frequency bands. Waivers of Footnote NG104 of the Table of Frequency Allocation, and Footnote 2 of Section 25.202(a)(1) of the Commission's rules, 47 C.F.R. §§ 2.106 and 25.202(a)(1), are also granted for space-to-Earth operations, on an unprotected, non-interference basis, in the 10.95-11.2 GHz and 11.45-11.7 GHz frequency bands in the United States. Waivers are granted pending favorable action on any conforming modification application filed pursuant to Revisions to Part 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary-Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands, IB Docket No. 12-376, Notice of Proposed Rulemaking and Report and Order, FCC 12-161, 27 FCC Rcd 16510, 16552-56, para. 114-118 (2012).
- 90073 --- Reception of downlink transmissions in the 11.95-12.2 GHz frequency band from Intelsat 14 (Call Sign S2785) at 45° W.L. is not permitted by this authorization. Intelsat 14's authorization does not include those frequencies. (IBFS File No. SAT-RPL-20090123-00007).
- 90075 --- Licensee is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
- 90079 --- Antenna elevation for all operations must be at least 5 degrees above the geographic horizon while the aircraft is on the ground.
- 90081 --- All operations shall be on a non-common carrier basis.
- 90103 --- Use of the MELCO remotes is pursuant to FCC Order and Authorization, DA 11-1480 (rel. Aug. 31, 2011) (granting IBFS File Nos. SES-LIC-20100805-0092, as amended by SES-AMD-20100914-01163, SES-AMD-20101115-01432, SES-AMD-20110325-00358, and SES-AFS-20110405-00402) to communicate with Galaxy 17 (S2715) @ 91° W.L. using the 14.0-14.5 GHz frequency (Earth-to-space) and the 11.7-12.2 GHz (space-to-Earth), as modified by grant of SES-MOD-20111128-01386 on February 15, 2012. SES-MOD-20111128-01386 granted an increase of the antenna pointing offset threshold from 0.2° to 0.25° for data logging criteria.
- 90104 --- For any new antenna authorized by this grant, the licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, Site ID, date of the license and certification that the antenna model was put into operation.
- 90105 --- Authority is granted to operate this station by remote control provided that the operator is responsible for ensuring the operations are in accordance with the terms and conditions of the license and pursuant to Section 25.271 of the Commission's rules. 47 C.F.R 25.271.
- 90106 --- Licensee must seek prior authorization under Section 25.117 of the Commission's rules prior to a change in the earth station's remote control point, including any relocation of the remote control point to a location outside the United States. See Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points", DA 06-978 (rel. May 4, 2006).



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

- 90107 --- The aircraft earth stations using Aura LE remote antennas are authorized, on a secondary basis, to transmit in the 14.0-14.5 GHz frequency band to the following geostationary-orbit space stations: Eutelsat 172A (formerly GE-23) (Call Sign: S2610) at 172° E.L., Eutelsat 10A at 10° E.L., Anik F1 (Call Sign S2745) at 107.3° W.L., Estrela Do Sul 2 (Call Sign S2821) at 63° W.L., Intelsat 14 (Call Sign S2785) at 45° W.L., Telstar 11N (Call Sign S2357) at 37.5° W.L., Galaxy-17 (Call Sign S2715) at 91° W.L., and Amazonas 2 (Call Sign S2793) at 61° W.L. The aircraft earth stations authorized herein must immediately terminate operations upon notification that such operation is causing harmful interference to any radio system in the 14.0-14.5 GHz Band authorized on a primary basis in conformance with the U.S. Table of Frequency Allocations or authorized on a secondary basis prior to the effective date of this authorization. The aircraft earth stations authorized herein cannot claim protection from harmful interference from any radio system in the 14.0-14.5 GHz Band authorized on a primary basis in conformance with the U.S. Table of Frequency Allocations or authorized on a secondary basis prior to the effective date of this authorization.
- 90108 --- Reception of downlink transmissions using Aura LE remote antennas is on a non-interference, non-protected basis from the following geostationary-orbit space stations: Eutelsat 172A (formerly GE-23) (Call Sign: S2610) at 172° E.L. in the 10.95-11.2 GHz, 11.45-11.7 GHz; and 12.2-12.75 GHz frequency bands; Eutelsat 10A at 10° E.L. in the 10.95-11.2 GHz, 11.45-12.2 GHz, and 12.5-12.75 GHz frequency bands; Anik F1 (Call Sign S2745) at 107.3° W.L. in the 11.45-12.2 GHz frequency band; Estrela Do Sul 2 (Call Sign S2821) at 63° W.L. 11.45-12.2 GHz frequency band; Telstar 11N (Call Sign S2357) at 37.5° W.L. in the 11.45-12.2 GHz frequency band; Galaxy-17 (Call Sign S2715) at 91° W.L. in the 11.7-12.2 GHz frequency band; and Amazonas 2 (Call Sign S2793) at 61° W.L. in the 11.7-12.2 GHz frequency band. The aircraft earth station operations authorized herein must accept interference from any radio station operating in conformance with the U.S. Table of Frequency Allocations.
- 90109 --- Operation of Aura LE remote antennas pursuant to this authorization must be in compliance with the terms of coordination agreements between the operators of the Eutelsat 172A, Eutelsat 10A, Estrela Do Sul 2, Intelsat 14, Telstar 11N, Anik F1, Galaxy-17, and Amazonas 2 space stations and operators of other Ku-band geostationary space stations within six angular degrees of those space stations. In the event that another GSO fixed-satellite service space station commences operation in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, aircraft earth stations operating pursuant to this authorization must cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or Panasonic Avionics Corporation demonstrates that such operation will not cause harmful interference to the new co-frequency space station.
- 90110 --- Operation of MELCO remote antennas pursuant to this authorization must be in compliance with the terms of coordination agreements between the operators of the Galaxy-17 space stations and operators of other Ku-band geostationary space stations within six angular degrees of those space stations. In the event that another GSO fixed-satellite service space station commences operation in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, aircraft earth stations operating pursuant to this authorization must cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or Panasonic Avionics Corporation demonstrates that such operation will not cause harmful interference to the new co-frequency space station.
- 90111 --- Communications between Panasonic Avionics Corporation's aircraft earth stations and the Estrela Do Sul 2 and Amazonas 2 space stations must be in compliance with all existing and future space station coordination agreements reached between Brazil and other Administrations.



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- 90112 --- Communications between Panasonic Avionics Corporation's aircraft earth stations and the Eutelsat 10A space station must be in compliance with all existing and future space station coordination agreements reached between France and other Administrations.
- 90113 --- Communications between Panasonic Avionics Corporation's aircraft earth stations and the Anik F1 space station must be in compliance with all existing and future space station coordination agreements reached between Canada and other Administrations.
- 90114 --- The applicant's request for a waiver of Section 25.283(c) of the Commission's rules, 47 C.F.R. § 25.283(c), is granted. Section 25.283(c) specifies that space stations must discharge all stored energy sources at end-of-life of the space station. ANIK F1 is a Boeing 702 model spacecraft that was launched on July 17, 2004, prior to the effective date of the rule. Applicant states that due to its design, ANIK F1's two helium tanks were sealed immediately following the last orbit-raising maneuver during the launch phase for the satellite and cannot be further discharged. Applicant states that the sealed helium tanks will retain a total mass of approximately 90 grams of helium at end of life, with each tank volume being 68.8 liters. Compliance with Section 25.283(c) is not achievable except through direct retrieval of spacecraft. The information submitted is not sufficient to support a finding that the underlying purpose of Section 25.283(c) would be served by sealing the helium tanks without completely venting them. However, we grant a partial waiver of the rule because undue hardship would result from requiring modification of the space station at this time.
- 90115 --- The applicant's request for waiver of Section 25.283(c) of the Commission's rules, 47 C.F.R. § 25.283(c), is granted. Section 25.283(c) specifies that space stations must discharge all stored energy sources at end-of-life of the space station. Eutelsat 10A is an Alcatel Alenia Space Spacebus-4000C4 model spacecraft that was launched in 2009. Applicant states that due to its design, Eutelsat 10A's two helium tanks were sealed immediately following the last orbit-raising maneuver during the launch phase for the satellite and cannot be further discharged. Applicant states that the sealed helium tanks will retain a total mass of approximately 0.9 kg of helium in each tank at end of life, with each tank volume being 90 liters. Compliance with Section 25.283(c) is not achievable except through direct retrieval of spacecraft. The information submitted is not sufficient to support a finding that the underlying purpose of Section 25.283(c) would be served by sealing the helium tanks without completely venting them. However, we grant a partial waiver of the rule because undue hardship would result from requiring modification of the space station at this time.
- 90116 --- The licensee must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.
- 90117 --- In the event that a non-geostationary orbit satellite system commences operations in the 14.0-14.5 GHz frequency band, the licensee must cease operations unless such operations have been coordinated with the operator of the NGSO system or licensee has demonstrated that its operations will not cause harmful interference to the NGSO system.
- 90118 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.



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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.