



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION
Current Authorization : FCC WEB Reproduction
 Unofficial Copy

Name: CLEAR CHANNEL SATELLITE SERVICES

Call Sign: E050143
File Number: SES-MOD-20101102-01379

Authorization Type: Modification of License
Non Common Carrier **Grant Date:** 12/22/2010 **Expiration Date:** 08/30/2020

Nature of Service: Fixed Satellite Service

Class of Station: VSAT Network

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	CCSS INV 6.1A	76 INVERNESS DR. EAST, STE.B 6.1M. HUB ENGLEWOOD, ARAPAHOE, CO, 80112	39° 34' 47.0" N	104° 51' 35.0" W	1751.0	83	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
2)	TT09612 .96M	VSAT .96M. CONUS, (50 UNITS)	0° 0' 0.0" N	0° 0' 0.0" W	0.0	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.					
3)	TT0753 .75M	VSAT .75M. CONUS, (50 UNITS)	0° 0' 0.0" N	0° 0' 0.0" W	0.0	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.					
4)	TT0.9816	VSAT .98M. CONUS, (1000 UNITS)				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.					
5)	TT1016R	VSAT, 1.0M. CONUS, (1000 UNITS)				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.					
6)	TT1240DR	VSAT 1.2M. DR CONUS, (50 UNITS)				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
7)	TT1240TV	VSAT 1.2M. TV CONUS, (50 UNITS)				NA	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					



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8) TTRVN_9808 VSAT .98M. NA
 CONUS, (1000 UNITS)

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.

9) TTCM1_850DR VSAT 1.8M. NA
 CONUS, (100 UNITS)

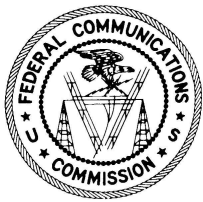
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

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 Tuesday, August 30, 2005 (3 AM Eastern Standard Time) and ending Sunday, August 30, 2020 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Thursday, December 22, 2011 (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	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000 - 14500.0000	H,V	3M80G7D	T	59.00	30.00	INV 6.1		QPSK, Data
2)	14000.0000 - 14500.0000	H,V	7M60G7D	T	60.00	28.00	INV 6.1		QPSK, Data
3)	11700.0000 - 12200.0000	H,V	1M50G7D	R	0.00	0.00	INV 6.1		QPSK, Data
4)	11700.0000 - 12200.0000	H,V	3M80G7D	R	0.00	0.00	INV 6.1		QPSK, Data
5)	11700.0000 - 12200.0000	H,V	5M50G7D	R			INV 6.1		QPSK, DATA
6)	14000.0000 - 14500.0000	H,V	3M80G1D	T	53.00	23.32	TT0.9816		QPSK
7)	11700.0000 - 12200.0000	H,V	4M60G1D	R			TT0.9816		QPSK
8)	14000.0000 - 14500.0000	H,V	1M50G7D	T	45.00	20.00	TT0753 .7		QPSK, Data
9)	11700.0000 - 12200.0000	H,V	3M80G7D	R	0.00	0.00	TT0753 .7		QPSK, Data
10)	11700.0000 - 12200.0000	H,V	7M60G7D	R			TT0753 .7		QPSK, DATA
11)	14000.0000 - 14500.0000	H,V	3M80G7D	T	52.50	22.00	TT09612 .9		QPSK, Data
12)	14000.0000 - 14500.0000	H,V	5M50G7D	T	54.00	24.00	TT09612 .9		QPSK, DATA
13)	11700.0000 - 12200.0000	H,V	7M60G7D	R	0.00	0.00	TT09612 .9		QPSK, Data
14)	14000.0000 - 14500.0000	H,V	500KG7W	T	46.50	25.50	TT1016R		QPSK, DIGITAL CARRIER
15)	14000.0000 - 14500.0000	H,V	1M00G7W	T	49.50	25.50	TT1016R		QPSK, DIGITAL CARRIER
16)	11700.0000 - 12200.0000	H,V	6M00G7W	R			TT1016R		QPSK, DVB-S1 DIGITAL CARRIER



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17) 11700.0000 - 12200.0000	H,V	10M0G7W	R		TT1016R	QPSK, DVB-S2 DIGITAL CARRIER	
18) 14000.0000 - 14500.0000	H,V	2M00G7W	T	52.50	25.50	TT1240DR	QPSK, DIGITAL CARRIER
19) 14000.0000 - 14500.0000	H,V	1M00G7W	T	49.50	25.50	TT1240DR	QPSK, DIGITAL CARRIER
20) 11700.0000 - 12200.0000	H,V	6M00G7W	R			TT1240DR	QPSK, DVB-S1 DIGITAL CARRIER
21) 11700.0000 - 12200.0000	H,V	10M0G7W	R			TT1240DR	QPSK, DVB-S2 DIGITAL CARRIER
22) 14000.0000 - 14500.0000	H,V	520KG7W	T	45.00	23.86	TT1240TV	QPSK, DIGITAL CARRIER
23) 14000.0000 - 14500.0000	H,V	4M60G7W	T	55.00	24.39	TT1240TV	QPSK, DIGITAL CARRIER
24) 14000.0000 - 14500.0000	H,V	5M60G7W	T	55.50	24.04	TT1240TV	QPSK
25) 11700.0000 - 12200.0000	H,V	6M00G7W	R			TT1240TV	QPSK, DVB-S1 DIGITAL CARRIER
26) 11700.0000 - 12200.0000	H,V	10M0G7W	R			TT1240TV	QPSK, DVB-S2 DIGITAL CARRIER
27) 14000.0000 - 14500.0000	H,V	10M0G1D	T	56.29	36.27	TTCMI850D	QPSK
28) 11700.0000 - 12200.0000	H,V	10M0G1D	R			TTCMI850D	QPSK
29) 14000.0000 - 14500.0000	H,V	1M00G1D	T	45.76	27.00	TTRVN9808	QPSK
30) 11700.0000 - 12200.0000	H,V	1M00G1D	R			TTRVN9808	QPSK

C) Frequency Coordination

#	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)	14000.0000 - 14500.0000	60.0W	-143.0W	25.3	-29.7	122.8	-231.4	-3.22	INV 6.1
2)	11700.0000 - 12200.0000	60.0W	-143.0W	25.3	-29.7	122.8	-231.4	0.0	INV 6.1
3)	11700.0000 - 12200.0000	60.0W	-143.0W	10.0	-10.0	0.0	-0.0	0.0	TT09612 .9
4)	14000.0000 - 14500.0000	60.0W	-143.0W	10.0	-10.0	0.0	-0.0	-6.1	TT09612 .9
5)	11700.0000 - 12200.0000	60.0W	-139.0W	10.0	-10.0	0.0	-0.0	0.0	TT0753 .7
6)	14000.0000 - 14500.0000	60.0W	-139.0W	10.0	-10.0	0.0	-0.0	-6.1	TT0753 .7
7)	14000.0000 - 14500.0000	60.0W	-143.0W	10.0	-10.0			-6.1	TT0.9816
8)	11700.0000 - 12200.0000	60.0W	-143.0W	10.0	-10.0				TT0.9816
9)	14000.0000 - 14500.0000	101.0W	-103.0W	10.0	-10.0			-12.0	TT1016R
10)	11700.0000 - 12200.0000	101.0W	-103.0W	10.0	-10.0				TT1016R
11)	14000.0000 - 14500.0000	60.0W	-143.0W	10.0	-10.0			-12.0	TT1240DR
12)	11700.0000 - 12200.0000	60.0W	-143.0W	10.0	-10.0				TT1240DR
13)	14000.0000 - 14500.0000	60.0W	-143.0W	10.0	-10.0			-12.0	TT1240TV



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14)	11700.0000 - 12200.0000	60.0W-143.0W	10.0 - 10.0	TT1240TV
15)	14000.0000 - 14500.0000	72.0W-139.0W		TTRVN9808
16)	11700.0000 - 12200.0000	72.0W-139.0W		TTRVN9808
17)	14000.0000 - 14500.0000	72.0W-139.0W		TTCMI850D
18)	11700.0000 - 12200.0000	72.0W-139.0W		TTCMI850D

D) Point of Communications

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

- 1) CCSS INV 6.1A to Permitted Space Station List
- 2) TT09612 .96M to AMC-4 @ 101 degrees W.L. (U.S.-licensed domestic satellite)
- 3) TT09612 .96M to AMSC 1 satellite @ 103 degrees W.L. (U.S.-licensed domestic satellite)
- 4) TT0753 .75M to AMC-4 @ 101 degrees W.L. (U.S.-licensed domestic satellite)
- 5) TT0753 .75M to AMSC 1 satellite @ 103 degrees W.L. (U.S.-licensed domestic satellite)
- 6) TT0.9816 to AMC-1 (S2445) @ 101.0 degrees W.L. (U.S.-Licensed)
- 7) TT1016R to AMC-4 @ 101 degrees W.L. (U.S.-licensed domestic satellite)
- 8) TT1016R to AMC-1 (S2445) @ 101.0 degrees W.L. (U.S.-Licensed)
- 9) TT1240DR to Permitted Space Station List
- 10) TT1240TV to Permitted Space Station List
- 11) TTRVN_9808 to Permitted Space Station List
- 12) TTCM1_850DR to Permitted Space Station List

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
CCSS INV 6.1A	INV 6.1	2	6.1	VIASAT 8060	8060	1751.0	7.0 AGL/ 1758.0 AMSL	

Max Gains(s):56.1 dBi @ 11.9500 GHz 57.3 dBi @ 14.2500 GHz

Maximum total input power at antenna flange (Watts) = 100.0

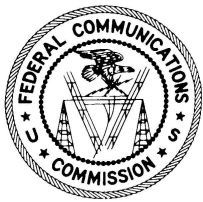
Maximum aggregate output EIRP for all carriers (dBW)77.3

TT0.9816 TT0.9816 1000 0.98 PRODELIN 1984

Max Gains(s):39.8 dBi @ 11.8500 GHz 41.3 dBi @ 14.2500 GHz

Maximum total input power at antenna flange (Watts) = 16.0

Maximum aggregate output EIRP for all carriers (dBW)53.0



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TT0753 .75M TT0753 .7 50 0.75 AVL 750 0.0 0.0 AGL/ 0.0
 TECHNOLOGIES IMOVSAT AMSL

Max Gains(s):37.8 dBi @ 11.8500 GHz 39.3 dBi @ 14.1250 GHz

Maximum total input power at antenna flange (Watts) = 3.7

Maximum aggregate output EIRP for all carriers (dBW)45.0

TT09612 .96M TT09612 .9 50 0.96 AVL 960 AVSAT 0.0 0.0 AGL/ 0.0
 TECHNOLOGIES AMSL

Max Gains(s):39.7 dBi @ 11.8500 GHz 41.2 dBi @ 14.1250 GHz

Maximum total input power at antenna flange (Watts) = 20.0

Maximum aggregate output EIRP for all carriers (dBW)54.0

TT1016R TT1016R 1000 1.0 PATRIOT TXINT- 2.0 AGL
 100KU

Max Gains(s):40.2 dBi @ 11.7250 GHz 41.9 dBi @ 14.1250 GHz

Maximum total input power at antenna flange (Watts) = 12.0

Maximum aggregate output EIRP for all carriers (dBW)52.7

TT1240DR TT1240DR 50 1.2 PRODELIN/DR 1132 2.0 AGL

Max Gains(s):41.7 dBi @ 11.8500 GHz 43.2 dBi @ 14.1250 GHz

Maximum total input power at antenna flange (Watts) = 14.16

Maximum aggregate output EIRP for all carriers (dBW)54.7

TT1240TV TT1240TV 50 1.2 PRODELIN/TV 1132 2.0 AGL

Max Gains(s):41.7 dBi @ 11.8500 GHz 43.2 dBi @ 14.1250 GHz

Maximum total input power at antenna flange (Watts) = 22.3

Maximum aggregate output EIRP for all carriers (dBW)56.7

TTCM1_850DR TTCM1850D 100 1.8 CHANNEL TYPE 183
 MASTER

Max Gains(s):46.8 dBi @ 14.2500 GHz 45.3 dBi @ 11.9500 GHz

Maximum total input power at antenna flange (Watts) = 50.0

Maximum aggregate output EIRP for all carriers (dBW)56.29

TTRVN_9808 TTRVN9808 1000 0.98 RAVEN GKU98 15.0 AGL

Max Gains(s):41.0 dBi @ 14.1250 GHz 39.5 dBi @ 11.8500 GHz

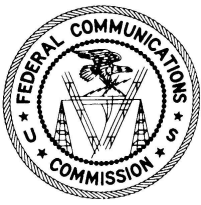
Maximum total input power at antenna flange (Watts) = 8.0

Maximum aggregate output EIRP for all carriers (dBW)47.78

F) Remote Control

TT09612 .96M 7042 S. REVERE PARKWAY **Call Sign:** E050143
 SUITE 450
 CENTENNIAL, ARAPAHOE, CO, 80112
 303-925-1708

TT0753 .75M 7042 S. REVERE PARKWAY **Call Sign:** E050143
 SUITE 450
 CENTENNIAL, ARAPAHOE, CO, 80112
 303-925-1708



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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:

- 102 24 Hour Contact: Applicant has provided the name and telephone number of a contact person in the United States, available seven days a week, twenty-four hours a day, for cessation of emissions from suspected source of interference in the event of need to resolve interference issues, on direction from authority with jurisdiction for licensing in the area of operation.
- 110 Operations under the authority of this license are on a non-interference basis only.
- 167 This authorization is limited to the total number of terminals listed in Section A of this license for this Site ID.
- 233 If a good faith agreement cannot be reached between the satellite operator and the operator of a future 2° compliant satellite, the earth station operator shall reduce its power to those levels that would accommodate the 2° compliant satellite.
- 234 If a good faith agreement cannot be reached between the satellite operator and the operator of a future 2° compliant satellite, the earth station operator shall accept the power density levels that would accommodate the 2° compliant satellite.
- 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.
- 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.
- 2938 Upon completion of construction, each 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, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.
- 3214 All operations must be in compliance with Section 1.1307 (b)(3) of the Commission's Rules. (See 47 CFR 1.1307 (b) (3))
- 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).



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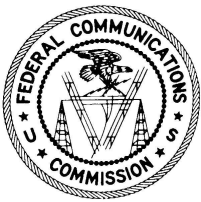
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H) Special and General Provisions

- 5216 All operations shall be on a non-common carrier basis.
- 9659 The licensee is afforded 30 days from the date of issuance of this license to decline it as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.



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H) Special and General Provisions

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 regulates 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.