



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


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**RADIO STATION AUTHORIZATION**

**Name:** DIRECTV Enterprises, LLC

**Call Sign:** E050230

**Authorization Type:** Renewal of License

**File Number:** SES-RWL-20200721-00774

Non Common Carrier

**Grant date:** 08/07/2020

**Expiration Date:** 09/08/2035

**Nature of Service:** Direct to Home Fixed Satellite

**Nature of Service:** Fixed Satellite Service

**Class of Station:** Fixed Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	5454 Garton Road (CRBC) Castle Rock, Douglas, CO 80104	39°16'38.4"N	104°48'27.4"W	2094	83
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 September 8, 2020 (3 AM Eastern Standard Time) and ending September 8, 2035 (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.

#	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)	29525.0000-29535.0000	L	25K0N0N	Tx	75.80	67.80	CKA10		Beacon Transmission
2)	29500.0000-29515.0000	L	1M30F9D	Tx	89.50	64.40	CKA10		Multi-tone Frequency Modulated Command Carrier
3)	29250.0000-30000.0000	L,R	36M0G7W	Tx	69.50	30.00	CKA10		PSK Mod Digital Video / Audio
4)	28350.0000-28600.0000	L,R	36M0G7W	Tx	69.50	30.00	CKA10		PSK Mod Digital Video / Audio
5)	19700.0000-20200.0000	L,R	36M0G7W	Rx	0.00	0.00	CKA10		PSK Mod Digital Video / Audio
6)	19700.0000-19710.0000	L	106KG9D	Rx	0.00	0.00	CKA10		Phase Modulated Satellite Telemetry
7)	18300.0000-18800.0000	L,R	36M0G7W	Rx	0.00	0.00	CKA10		PSK Mod Digital Video / Audio



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8)	29525.0000-29535.0000	L	25K0N0N	Tx	75.80	67.80	CKA11		Beacon Transmission
9)	29500.0000-29515.0000	L	1M30F9D	Tx	89.50	64.40	CKA11		Multi-tone Frequency Modulated Command Carrier
10)	29250.0000-30000.0000	L, R	36M0G7W	Tx	69.50	30.00	CKA11		PSK Mod Digital Video / Audio
11)	28350.0000-28600.0000	L, R	36M0G7W	Tx	69.50	30.00	CKA11		PSK Mod Digital Video / Audio
12)	19700.0000-20200.0000	L, R	36M0G7W	Rx	0.00	0.00	CKA11		PSK Mod Digital Video / Audio
13)	19700.0000-19710.0000	L	106KG9D	Rx	0.00	0.00	CKA11		Phase Modulated Satellite Telemetry
14)	18300.0000-18800.0000	L, R	36M0G7W	Rx	0.00	0.00	CKA11		PSK Mod Digital Video / Audio

**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)	29250.0000-29500.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA10
2)	29500.0000-29515.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-8.1	CKA10
3)	29515.0000-29525.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA10
4)	28350.0000-28600.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA10
5)	29525.0000-29535.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	9	CKA10
6)	29535.0000-30000.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA10
7)	29525.0000-29535.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	9	CKA11
8)	29535.0000-30000.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA11
9)	28350.0000-28600.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA11
10)	29250.0000-29500.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA11
11)	29500.0000-29515.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-8.1	CKA11
12)	29515.0000-29525.0000	80.0W	120.0W	37.8	41.9	143.9	203.2	-42.5	CKA11



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**D) Points of Communications**

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

- 1) 1 to DIRECTV 8 (K) @101 degrees W.L. of the Ka-band Fixed Satellite system (U.S.-licensed)
- 2) 1 to SPACEWAY 2 (S2133 )satellite @ 138.9 degrees W.L.
- 3) 1 to US LICENSED DirecTV satellites at 101, 110,and 119 WL clusters
- 4) 1 to DIRECTV 11 @99 W.L. satellite of the Direct Broadcast Satellite system (U.S.-licensed)
- 5) 1 to DIRECTV 12 @103 degrees W.L. of the Ka-band Fixed Satellite system (U.S.-licensed)
- 6) 1 to Permitted Space Station List

**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	CKA10	1	9.2	Vertex RSI	9mKa-01-00	2094	11 AGL/ 2105 AMSL	
		Max Gains(s):	66.5 dBi @	30.0000 GHz	62.9 dBi @	20.2000 GHz		
		Maximum total input power at antenna flange (Watts) =				248.00		
		Maximum aggregate output EIRP for all carriers (dBW) =				90.40		
1	CKA11	1	9.2	Vertex RSI	9mKa-01-00	2094	11 AGL/ 2105 AMSL	
		Max Gains(s):	66.5 dBi @	30.0000 GHz	62.9 dBi @	20.2000 GHz		
		Maximum total input power at antenna flange (Watts) =				248.00		
		Maximum aggregate output EIRP for all carriers (dBW) =				90.40		

**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.



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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:

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.

9662 --- The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the fixed-Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination. See 47 C.F.R. Section 2.106, Footnote US334.

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](http://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.**