



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: DIRECTV Enterprises, LLC

Call Sign: E060014

Authorization Type: Modification of License

File Number: SES-MOD-20171012-01154

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 03/17/2021

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)	NEUF	56 Packard Drive New Hampton, NH 03256	43°37'24.2"N	71°38'32.4"W	157	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 March 17, 2006 (3 AM Eastern Standard Time) and ending March 17, 2021 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is January 9, 2019 (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)	29250.0000-30000.0000	L	24M0G7W	Tx	81.10	43.30	NEUF		QPSK, MCPC VIDEO
2)	29250.0000-30000.0000	L	36M0G7W	Tx	81.10	41.60	NEUF		QPSK, MCPC VIDEO
3)	29250.0000-30000.0000	L	54M0G7W	Tx	81.10	39.80	NEUF		QPSK, MCPC VIDEO
4)	29250.0000-30000.0000	L	22M6G7W	Tx	80.80	43.30	NEUF		QPSK, MCPC VIDEO/DATA
5)	29250.0000-30000.0000	L	2M20G1W	Tx	70.70	43.30	NEUF		QPSK, SCPC DATA/VIDEO
6)	29250.0000-30000.0000	L	2M90G1W	Tx	71.90	43.30	NEUF		QPSK, SCPC DATA/VIDEO
7)	29250.0000-30000.0000	L	5M70G1W	Tx	74.90	43.30	NEUF		QPSK, SCPC DATA/VIDEO
8)	29250.0000-30000.0000	L	14M1G7W	Tx	78.80	43.30	NEUF		QPSK, MCPC/SCPC DATA/VIDEO



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: DIRECTV Enterprises, LLC

Call Sign: E060014

Authorization Type: Modification of License

File Number: SES-MOD-20171012-01154

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 03/17/2021

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
9)	29250.0000-30000.0000	L	8M50G7W	Tx	76.60	43.30	NEUF		QPSK, DATA/VIDEO MCPC/SCPC
10)	28350.0000-28600.0000	L	36M0G7W	Tx	81.10	41.60	NEUF		QPSK, MPC VIDEO
11)	28350.0000-28600.0000	L	24M0G7W	Tx	81.10	43.30	NEUF		QPSK, MCPC VIDEO
12)	28350.0000-28600.0000	L	54M0G7W	Tx	81.10	39.80	NEUF		QPSK, MCPC VIDEO
13)	28350.0000-28600.0000	L	22M6G7W	Tx	80.80	43.30	NEUF		QPSK, MCPC VIDEO/DATA
14)	28350.0000-28600.0000	L	2M20G1W	Tx	70.70	43.30	NEUF		QPSK, SCPC DATA/VIDEO
15)	28350.0000-28600.0000	L	2M90G1W	Tx	71.90	43.30	NEUF		QPSK, SCPC DATA/VIDEO
16)	28350.0000-28600.0000	L	5M70G1W	Tx	74.90	43.30	NEUF		QPSK, SCPC DATA/VIDEO
17)	28350.0000-28600.0000	L	14M1G7W	Tx	78.80	43.30	NEUF		QPSK, DATA/VIDEO MCPC/SCPC
18)	28350.0000-28600.0000	L	8M50G7W	Tx	76.60	43.30	NEUF		QPSK, DATA/VIDEO MCPC/SCPC
19)	19700.0000-20200.0000	R	24M0G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO
20)	19700.0000-20200.0000	R	36M0G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO
21)	19700.0000-20200.0000	R	54M0G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO
22)	19700.0000-20200.0000	R	22M6G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO/DATA
23)	19700.0000-20200.0000	R	2M20G1W	Rx	0.00	0.00	NEUF		QPSK, SCPC DATA/VIDEO
24)	19700.0000-20200.0000	R	2M90G1W	Rx	0.00	0.00	NEUF		QPSK, SCPC DATA/VIDEO
25)	19700.0000-20200.0000	R	5M70G1W	Rx	0.00	0.00	NEUF		QPSK, SCPC DATA/VIDEO
26)	19700.0000-20200.0000	R	14M1G7W	Rx	0.00	0.00	NEUF		QPSK, DATA/VIDEO MCPC/SCPC
27)	19700.0000-20200.0000	R	8M50G7W	Rx	0.00	0.00	NEUF		QPSK, DATA/VIDEO MCPC/SCPC
28)	18300.0000-18800.0000	R	24M0G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO
29)	18300.0000-18800.0000	R	36M0G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO
30)	18300.0000-18800.0000	R	54M0G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: DIRECTV Enterprises, LLC

Call Sign: E060014

Authorization Type: Modification of License

File Number: SES-MOD-20171012-01154

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 03/17/2021

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
31)	18300.0000-18800.0000	R	2M20G1W	Rx	0.00	0.00	NEUF		QPSK, SCPC DATA/VIDEO
32)	18300.0000-18800.0000	R	2M90G1W	Rx	0.00	0.00	NEUF		QPSK, SCPC DATA/VIDEO
33)	18300.0000-18800.0000	R	5M70G1W	Rx	0.00	0.00	NEUF		QPSK, SCPC DATA/VIDEO
34)	18300.0000-18800.0000	R	22M6G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC VIDEO/DATA
35)	18300.0000-18800.0000	R	14M1G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC/SCPC DATA/VIDEO
36)	18300.0000-18800.0000	R	8M50G7W	Rx	0.00	0.00	NEUF		QPSK, MCPC/SCPC DATA/VIDEO

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)	29250.0000-30000.0000			39.0	-20.6	192.1	-238.5	-22.4	NEUF
2)	28350.0000-28600.0000			39.0	-20.6	192.1	-238.5	-22.4	NEUF
3)	19700.0000-20200.0000			39.0	-20.6	192.1	-238.5	0	NEUF
4)	18300.0000-18800.0000			39.0	-20.6	192.1	-238.5	0	NEUF

D) Points of Communications

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

- 1) NEUF to SPACEWAY 1 satellite @103 degrees W.L.
- 2) NEUF to SPACEWAY 2 (S2133)satellite @ 138.9 degrees W.L.
- 3) NEUF to DIRECTV 8 @ 101.0 degrees W.L. of the Direct Broadcast Satellite system (U.S.-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: DIRECTV Enterprises, LLC

Call Sign: E060014

Authorization Type: Modification of License

File Number: SES-MOD-20171012-01154

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 03/17/2021

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)
NEUF	NEUF	1	3.5	ANDREW	ES35-101-208	157	3.7 AGL/ 160.7 AMSL	
Max Gains(s):		55.2 dBi @	19.9500 GHz	58.3 dBi @	29.6000 GHz			
Maximum total input power at antenna flange (Watts) =					191.00			
Maximum aggregate output EIRP for all carriers (dBW) =					81.10			

F) Remote Control Point:

NEUF	5454 Garton Road	Call Sign: CRBC
	Castle Rock, Douglas, CO 80104	
	303-660-7001	

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.

5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.

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.

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)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: DIRECTV Enterprises, LLC

Call Sign: E060014

Authorization Type: Modification of License

File Number: SES-MOD-20171012-01154

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 03/17/2021

H) Special and General Provisions

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.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: DIRECTV Enterprises, LLC

Call Sign: E060014

Authorization Type: Modification of License

File Number: SES-MOD-20171012-01154

Non Common Carrier

Grant date: 01/09/2018

Expiration Date: 03/17/2021

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.