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APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

DIRECTV Enterprises, LLC - VERTEX CRBC

Name: DIRECTV Enterprises, LLC Phone Number:

310-964-3577

DBA

Fax Number:

240-358-0569

Name:

Street: 2230 E. Imperial Hwy

E-Mail:

jwengryniuk@directv.com

City:

El Segundo

State:

CA

Country:

USA

Zipcode:

90245

Attention: Jack Wengryniuk

9–16. Name of Contact Representative (If other than applicant)

Name: William M. Wiltshire Phone Number: 202–730–1350

Company: Harris, Wiltshire & Grannis, LLP **Fax Number:** 202–730–1301

Street: 1200 18th Street, NW E-Mail: wwiltshire@harriswiltshire.com

12th Floor

City: Washington State: DC

Country: USA Zipcode: 20036–

Contact Relationship: Legal Counsel

Title:

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

a1. Earth Station

(N/A) a2. Space Station

h

b1. Application for License of New Station

b2. Application for Registration of New Domestic Receive–Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

(N/A) b5. Assignment of License or Registration

(N/A) b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

o b10. Other (Please specify)

• b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.

17c. Is a fee submitted with this applicat If Yes, complete and attach FCC Form Governmental Entity Other(please explain): 17d.	159. If No, indicate reason for fee exemption	(see 47 C.F.R.Section 1.1114).
Fee Classification BAX – Fixed Satellite 7 Station	Transmit/Receive Earth	
18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable	19. If this filing is an amendment to a pending(a) Date pending application was filed:Not Applicable	g application enter: (b) File number of pending application: Not Applicable
TYPE OF SERVICE 20. NATURE OF SERVICE: This filing is f	For an authorization to provide or use the following	ing type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service g. Other (please specify)		

21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected	I to a Public Switched Network N/A
24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all a	applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: 18300 Frequency Upper: 30000	
TYPE OF STATION	
25. CLASS OF STATION: Choose the button next to the class of station	n that applies. Choose only one.
a. Fixed Earth Station	
b. Temporary–Fixed Earth Station	
c. 12/14 GHz VSAT Network	
d. Mobile Earth Station	
(N/A) e. Geostationary Space Station (N/A) f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY: Choose only one.	
Transmit/Receive Transmit-Only Receive-Only N/	A

PURPOSE OF MODIFICATION

TORI OSE OF MODIFICATION	
27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)	
Not Applicable	
ENVIRONMENTAL POLICY	
28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	Yes No Exhibit A
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No ⊗ N/A
30. Is the applicant an alien or the representative of an alien?	O Yes O No ⊗ N/A
_	

31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	O No) 6 N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	O No	• • N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one—fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	O No	o (a) N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.			
BASIC QUALIFICATIONS			
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	•	Yes	O No
	Exhibit 1	В	

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊚ No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		
41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	○ Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? N/A	hat administr	ation has

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIRECTV Enterprises, LLC requests a license for a new earth station to communicate with KA-band spacecraft.

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

11	Applicant	ical	(an).	Choose the	hutton nevt	to applicable	recnonce)	
44.	Applicant	18 a 1	(an). ((Choose the	button next	to applicable	e response.)	

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

Limited Liability Company

45. Name of Person Signing James Butterworth		46. Title of Person Signing Senior Vice President		
47. Please supply any need attachme			T	
Attachment 1:	Attachment 2:		Attachment 3:	
(U.S. Code,	TEMENTS MADE ON THIS FO Title 18, Section 1001), AND/OI tle 47, Section 312(a)(1)), AND/	R REVOCATION OF ANY		

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: CRBC E5. Call Sign:

E2: Contact Name Don Jones E6. Phone 303–660–7001

Number:

E3. Street: 5454 Garton Road E7. City: Castle Rock

E8. County: Douglas

E4. State CO E9. Zip Code 80104

E10. Area of Operation: Colorado

E11. Latitude: 39 °16 '38.4 "N

E12. Longitude: 104 °48 '27.4 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 2094.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	● Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	⊗ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	•	No
	<u> </u>		
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	● Yes	٥	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yes	•	No
POINTS OF COMMUNICATION	1		
Satellite Name: OTHER If you selected OTHER, please enter the following:			

E21. Common Name: DIRECTV 8	E22. ITU Name:
E23. Orbit Location: 101 W.L.	E24. Country: USA

Satellite Name: OTHER If you selected OTHER, please enter the following:		
E21. Common Name: SPACEWAY 1	E22. ITU Name:	
E23. Orbit Location: 103 W.L.	E24. Country: USA	

Satellite Name: OTHER If you selected OTHER, please enter the following:				
E21. Common Name: ALSAT	E22. ITU Name:			
E23. Orbit Location:	E24. Country: USA			

Satellite Name: OTHER If you selected OTHER, please enter the following:					
E21. Common Name: SPACEWAY 2	E22. ITU Name:				
E23. Orbit Location: 99 W.L.	E24. Country: USA				

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
CRBC	CKA11	1	Vertex RSI	9mKa-01-00	9.2	66.5 dBi at 30

			62.9 dBi at 20.2
CKA10			66.5 dBi at 30
			62.9 dBi at 20.2

Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)		Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
CKA11	9.2/9.2	11.0	2105.0	0.0	248.0	0.0	90.4
CKA10	9.2/9.2	11.0	2105.0	0.0	248.0	0.0	90.4

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
CKA11	18300 18800	R	Left and Right Circular	36M0G7W	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

PSK Mod	Digital	Video	/	Audio
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CKA11	19700 20200	R	Left and Right Circular	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
PSK Mod Di	gital Video /	Audio				
CKA11	19700 19710	R	Left Hand Circular	106KG9D	0.0	0.0
Phase Modu	lated Satellit	e Telemetry				
CKA11	29525 29535	Т	Left Hand Circular	25K0N0N	89.5	81.5
E50. Modulation entirety.) Beacon Tra		I ne complete description	I on does not appear in	this box, please go	to the end of the form	to view it in its

CKA11	28350 28600	Т	Left and Right Circular	36M0G7W	69.5	30.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go	o to the end of the	e form to view it in its
PSK Mod Di	gital Video /	Audio				
CKA11	29250 30000	Т	Left and Right Circular	36M0G7W	69.5	30.0
PSK Mod Di	gital Video /	Audio				
CKA11	29500 29515	Т	Left Hand Circular	1M30F9D	89.5	64.4
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go	o to the end of the	e form to view it in its
Multi-tone	Frequency Mod	dulated Command	l Carrier			

CKA10	18300 18800	R	Left and Right Circular	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go	to the end of the form	to view it in its
PSK Mod Di	gital Video /	Audio				
CKA10	19700 20200	R	Left and Right Circular	36M0G7W	0.0	0.0
entirety.) PSK Mod Di	gital Video /	Audio				
CKA10	19700 19710	R	Left Hand Circular	106KG9D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go	to the end of the form	to view it in its
Phase Modu	lated Satellit	te Telemetry				

CKA10	29525 29535	Т	Left Hand Circular	25K0N0N	89.5	81.5
E50. Modulation entirety.)	and Services (If	the complete de	escription does not appear in	n this box, please	go to the end of th	ne form to view it in its
Beacon Tra	nsmission					
CKA10	28350 28600	Т	Left and Right Circular	36M0G7W	68.5	30.0
PSK Mod Di	gital Video /	/ Audio				
CKA10	29250 30000	Т	Left and Right Circular	36M0G7W	69.5	30.0
E50. Modulation entirety.) PSK Mod Di	and Services (If		escription does not appear in	1 this box, please	go to the end of the	ne form to view it in its

CKA10	29500 29515	Т	Left Hand Circular	1M30F9D	89.5	64.4		
	29313							
E50. Modulation	E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its							
entirety.)	entirety.)							
Multi-tone Frequency Modulated Command Carrier								

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
CKA11	Geostationary	28350 28600	80.0/ 120.0	125.1	33.2	182.8	50.5	-42.5
	Geostationary	29250 29500	80.0/120.0	125.1	33.2	182.8	50.5	-42.5
	Geostationary	29500 29515	80.0/120.0	125.1	33.2	182.8	50.5	-8.1
	Geostationary	29515 29525	80.0/120.0	125.1	33.2	182.8	50.5	-42.5
	Geostationary	29525 29535	80.0/ 120.0	125.1	33.2	182.8	50.5	9.0
	Geostationary	29535 30000	80.0/ 120.0	125.1	33.2	182.8	50.5	-42.5

CKA10	Geostationary	28350 28600	80.0/ 120.0	125.1	33.2	182.8	50.5	-42.5
	Geostationary	29250 29500	80.0/ 120.0	125.1	33.2	182.8	50.5	-42.5
	Geostationary	29500 29515	80.0/ 120.0	125.1	33.2	182.8	50.5	-8.1
	Geostationary	29515 29525	80.0/ 120.0	125.1	33.2	182.8	50.5	-42.5
	Geostationary	29525 29535	80.0/ 120.0	125.1	33.2	182.8	50.5	9.0
	Geostationary	29535 30000	80.0/ 120.0	125.1	33.2	182.8	50.5	-42.5

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E65. Phone Number					
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.						
E62. Street Address						
E63. City	E67. County		E64/68. State/Country	E66. Zip Code		

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