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Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC Use Only FCC Only FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

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

SES-LIC-CKA19

Name:	DIRECTV Enterprises, LLC	Phone Number:	301-663-0053
DBA Name:		Fax Number:	240-358-0569
Street:	6050 Elmer Derr Rd	E–Mail:	jwengryniuk@directv.com
City:	Frederick	State:	MD
Country:	USA	Zipcode:	21703 –
Attention:	Jack Wengryniuk		

9–16. Name of Contact Representative

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

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

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

Suite 1200

City: Washington State: DC

Country: USA Zipcode: 20036–

Attention: William M. Wiltshire **Relationship:** Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the	b.
classification that applies to this filing for	b1. Application for License of New Station
both questions a. and b. Choose only one	b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	
	(N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration
a.	(N/A) b5. Assignment of License or Registration
a1. Earth Station	(N/A) b6. Transfer of Control of License or Registration
(N/A) a2. Space Station	(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 h 10. Other (Please specify)
	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.
	(N/A) b13. Amendment to a Pending Database Entry Application
	(N/A) b14. Modifiction of Database Entry
17c. Is a fee submitted with this applicati	on?
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
Governmental Entity Noncomme	ercial educational licensee
Other(please explain):	
17d.	
Fee Classification BAX – Fixed Satellite T	ransmit/Receive Earth
Station	

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 application enter: (a) Date pending application was filed: (b) File number of pending application: Not Applicable Not Applicable
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I I FE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provid	e or use the following type(s) of service(s): Select all that apply:
Circal Catallita	
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
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
	service, see instructions regarding Sec. 214 filings. Choose one. Are these
facilities:	
O Connected to a Public Switched Network Not connected	to a Public Switched Network N/A

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all 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 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
TORIOSE 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

environmental impact as defined by 47 CFR 1.1307? If YES, submit the

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.	Radiation Hazard	
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.	utical en route or	
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No	
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 O 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 O N/A	

have a significant

statement as required by Sections

Yes

No

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 N	o 👩 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
	Waiver	
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 attempting 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, coordinated or is in the process of coordinating the space station?	what administi	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the not appear in this box, please go to the end of the form to view it in its entirety.)	complete desc	ription does
DIRECTV Enterprises, LLC requests a license to operate a new earth station with DIRECTV Ka-band satellites.	to communi	icate
Exhibit B		

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	⊚ A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c
	25.138(b) Analysis

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.

O Individual				
 Unincorporated Association 				
Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing Romulo Pontual 47. Please supply any need attach		46. Title of Pers Executive Vice	President	
	Attachment 2:		Attachment 3:	
Attachment 1:			.	

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 '39.6 "N

E12. Longitude: 104 °48 '31.0 "W

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

E14. Site Elevation (AMSL): 2100.0 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.	● Y	čes.	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?	OY	'es	O No)	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0 '	Yes	•)	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	● '	Yes	(>	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0 '	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.		Yes	•	•	No
POINTS OF COMMUNICATION					
Satellite Name:DIRECTV 10 DIRECTV 10 102.8 W.L. If you selected OTHER, please enter the following:					

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:DIRECTV 12 DIRECTV 12 103 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:DIRECTV 9S DIRECTV 9S 101 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:DIRECTV 8 (K) DIRECTV 8 (K) 101 W.L. If yo	ou selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:DIRECTV 11 DIRECTV 11 99.2 W.L. If you sel	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SPACEWAY 1 SPACEWAY 1 103 W.L. If you se	elected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:SPACEWAY 2 SPACEWAY 2 99 W.L. If you seld	ected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:OTHER OTHER If yo	If you selected OTHER, please enter the following:		
E21. Common Name: DIRECTV 14	E22. ITU Name: DIRECTV 14		
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		Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
CRBC	CKA19	1	Vertex-RSI	9MKa-01-00	9.2	66.5 dBi at 30
						62.9 dBi at 20.2

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
CKA19	9.2/9.2	11.0	2111.0	0.0	282.0	0.0	91.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
CKA19	29525 29535	Т	Left and Right Circular	25K0N0N	50.0	42.0
E50. Modulation entirety.) Pointing	n and Services (If the beacon (clear s		tion does not appear ir	this box, please go	to the end of the form	to view it in its
CKA19	29525 29535 an and Services (If the	T ne complete descript	Left and Right Circular tion does not appear in	25K0NON 1 this box, please go	75.8 to the end of the form	67.8 to view it in its
E50. Modulation						

E50. Modulatio entirety.)	n and Services (If t	he complete descripti	ion does not appear is	n this box, please go	to the end of the form	to view it in its	
PSK Modul	ated Digital V	ideo/Audio					
CKA19	19700 20200	R	Left and Right Circular	36M0G7W	0.0	0.0	
PSK Modul	ated Digital V	ideo/Audio					
CKA19	28350 28600	Т	Left and Right Circular	36M0G7W	85.0	45.5	
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 Modulated Digital Video/Audio							
CKA19	29250 30000	Т	Left and Right Circular	36M0G7W	85.0	45.5	

E50. Modulation entirety.)	and Services (If th	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
PSK Modula	ted Digital Vi	deo/Audio				
CKA19	18300 18305	R	Left and Right Circular	106KG9D	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.) Phase Modulated Satellite Telemetry						
CKA19	19700 19710	R	Left and Right Circular	106KG9D	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.) Phase Modulated Satellite Telemetry						
CKA19	18790 18800	R	Left and Right Circular	800KF2D	0.0	0.0

E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	n to view it in its
Frequency	Modulated Sat	tellite Telemet	ry			
CKA19	28350 28360	Т	Left and Right Circular	800KF2D	76.0	53.0
E50. Modulation entirety.)					to the end of the form	n to view it in its
Multi-tone	e Frequency Mod	dulated Command	d Carrier (clea	ar sky)		
CKA19	28350 28360	Т	Left and Right Circular	800KF2D	91.0	68.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	n to view it in its
Multi-tone	e Frequency Mod	dulated Command	d Carrier (Max	Faded)		
CKA19	29250 29260	Т	Left and Right Circular	160KF3N	76.0	60.0

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
Multi-tone	frequency mod	ulated pointin	g beacon (clea	ar sky)		
CKA19	29250 29260	Т	Left and Right Circular	160KF3N	91.0	75.0
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
Multi-tone	e frequency mod	ulated pointin	g beacon (Max	faded)		
CKA19	29250 29260	Т	Left and Right Circular	1M30F9D	76.0	50.9
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
Multi-tone Frequency Modulated Command Carrier (Clear Sky)						
CKA19	29250 29260	Т	Left and Right Circular	1M30F9D	91.0	65.9

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Multi-tone	Frequency Mod	ulated Command	Carrier (Max	Faded)		
CKA19	29490 29500	Т	Left and Right Circular	1M30F9D	76.0	50.9
entirety.) Multi-tone	Frequency Mod	ulated Command	Carrier (Clea	r Sky)		
CKA19	29490 29500	Т	Left and Right Circular	1M30F9D	91.0	65.9
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.) Multi-tone Frequency Modulated Command Carrier (Max Faded)						
CKA19	29500 29515	Т	Left and Right Circular	1M30F9D	50.0	24.9

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.)

Multi-tone Frequency Modulated Command Carrier (Clear Sky)

CKA	A 19	29500	Т	Left and Right	1M30F9D	89.5	64.4
		29515		Circular			

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.)

Multi-tone Frequency Modulated Command Carrier (Max Faded)

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
CKA19	Geostationary	28350 28360	99.0/ 103.0	170.9	44.1	177.2	44.5	-7.6
	Geostationary	28350 28600	99.0/ 103.0	170.9	44.1	177.2	44.5	-30.1

Geostationary	29250 29260	99.0/ 103.0	170.9	44.1	177.2	44.5	-0.6
Geostationary	29250 30000	99.0/ 103.0	170.9	44.1	177.2	44.5	-30.1
Geostationary	29490 29500	99.0/ 103.0	170.9	44.1	177.2	44.5	-9.7
Geostationary	29500 29515	99.0/ 103.0	170.9	44.1	177.2	44.5	-11.2
Geostationary	29525 29535	99.0/ 103.0	170.9	44.1	177.2	44.5	-7.8

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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