Date & Time Filed: Nov 10 2017 3:42:19:460PM File Number: SES-LIC-INTR2017-03197

Callsign/Satellite ID:

# APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY FOR OFFICIAL USE ONLY

### APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Application for 17/24 GHz Earth Station Authorization – NEDF

Name:	DIRECTV Enterprises, LLC	Phone Number:	202-457-3032
DBA Name:		Fax Number:	
Street:	1120 20th Street, NW	E-Mail:	jackie.flemming@att.com
	Suite 1000		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 –
Attention:	Jacquelyne Flemming		

9–16. Name of Contact Representative

Name: Jennifer Hindin Phone Number: 202–719–4975

Company: Wiley Rein LLP Fax Number: 202–719–7049

Street: 1776 K Street, NW E–Mail: jhindin@wileyrein.com

City: Washington State: DC

Country: USA Zipcode: 20006–

Attention: 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		
(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: 17300 Frequency Upper: 25150
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
o g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only N/A
PURPOSE 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 ⊗ 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 No	o 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.	O Yes	No
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.	<b>O</b> Yes	<b>⊚</b> 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	<b>⊚</b> 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	<b>⊚</b> 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	<b>⊘</b> 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.	O 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?	hat administu	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the c 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 hereby requests authority to operate a 3.5 meter treath station in the 17/24 GHz Broadcasting Satellite Service.	ansmit/re	eceive

25.203(l) Analysis

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.	<b>●</b> 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.	<b>o</b> c

#### **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.

Individual				
Unincorporated Association	l			
Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
Limited Liability Company				
45. Name of Person Signing Phil Goswitz		46. Title of Per Senior Vice Pr	rson Signing esident, Video, Space and Comm.	
47 D1 1 1	hments.			
47. Please supply any need attac	Attachment 2:		Attachment 3:	
Attachment 1:	Attachment 2:		7 ttaeiment 3.	
	Attachment 2:		reachment 3.	

#### 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: NEDF E5. Call Sign:

E2: Contact Name Timothy Poole E6. Phone 603–217–2930

Number:

E3. Street: 1089 Mt. Eustis Rd E7. City: Littleton

E8. County: Grafton

E4. State NH E9. Zip Code 03561

E10. Area of Operation: New Hampshire

E11. Latitude: 44 ° 17 '8.4 "N

E12. Longitude: 71 °47 '58.2 "W

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

E14. Site Elevation (AMSL): 248.4 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?	0,	Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	•	Yes	٥	. No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	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
DODIEG OF COLUMNICATION				

#### POINTS OF COMMUNICATION

Satellite Name: DIRECTV RB-1 (S2711) | DIRECTV RB-1 (S2711) | 99.235 W.L If you selected OTHER, please enter the following:

E21. Common N	Jame:		E22. ITU Name:						
E23. Orbit Locat	tion:		E24. Country:						
				•					
Satellite Nam	e:DIRECTV 15 (S2930	)   DIRECTV 15   10	If you se	lected OTHER, plea	se enter the following	ıg:			
E21. Common N	Jame:		E22. ITU	Name:					
E23. Orbit Locat	tion:			E24. Cou	intry:				
				•					
Satellite Nam	e:DIRECTV RB-2 (S2	712)   DIRECTV RE	3–2 (S2712)	102.825	If you selected C	THER, please enter	the following:		
E21. Common N	Jame:			E22. ITU Name:					
E23. Orbit Locat	tion:			E24. Country:					
				•					
Satellite Nam	e:DIRECTV 14 (S2869	)   DIRECTV 14   99	9.235 WL	If you sel	lected OTHER, plea	se enter the followin	g:		
E21. Common N	Jame:		E22. ITU Name:						
E23. Orbit Location:					E24. Country:				
POINTS OF	COMMUNICATION	(Destination Point	ts)	•					
E25. Site Identif	ier:								
E26. Common N	lame:		E27. Country:						
ANTENNA				•					
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufac	turer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)		
NEDF	NEDRB5	1	Andrew		ES35-101-208	3.5	56.7 dBi at 25		

											53.6 dBi at 17.5
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Grou	l 	E36. A Level< (meter		E37. Buil Height A Ground Level <bl (meters)</bl 	bove	E38. Total Input Powe antenna flange  (Watts)		E39. Maximum Antenna Heigh Above Rooftop (meters)	E40. Total EIRP for al carriers  (dBW)
NEDRB5	3.5/3.5	2.5		250.9		0.0		500.0		0.0	83.7
FREQUENCY	'	_		-!		<u>!</u>				!	•
E28. Antenna I	E43/44. Frequency B (MHz)		E45. T/R M	<b>Iode</b>	E46. Anto Polarizat L,R)		E47. E Design	Emission nator		P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
NEDRB5	17300 17700		R		Left and l Circular	Right	36M00	G7W	0.0	1	0.0
E50. Modulat entirety.)	tion and Services	(If th	e complete	descripti	on does no	t appear in	this bo	x, please go to	the	end of the form t	o view it in its
PSK MOD	DIGITAL VIDE	30 / 3	AUDIO								
NEDRB5	24750 25150		T		Left and I Circular	Right	36M00	G7W	75.7		36.2

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

# FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type		E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
NEDRB5	Geostationary	17300 17700	80.0/ 120.0	191.7	38.3	238.0	20.3	0.0
	Geostationary	24750 25150	80.0/ 120.0	191.7	38.3	238.0	20.3	-21.2

# REMOTE CONTROL POINT LOCATION

E61. Call Sign  NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E65. Phone Number 303−660−7018				
E62. Street Address 5454 Garton Road					
E63. City Castle Rock	E67. County Douglas		E64/68. State/Country CO/ USA	E66. Zip Code 80104	

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