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FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	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: Modification to E050373

egal Name of Ap	pplicant		
Name:	EchoStar Broadcasting Corporation	Phone Number:	3014285893
DBA Name:		Fax Number:	
Street:	100 Inverness Terrace East	E-Mail:	jennifer.manner@echostar.com
City:	Englewood	State:	CO
Country:	USA	Zipcode:	80112 –
Attention:			

9–16. Name of Contact Representative

Name: Jennifer A. Manner Phone Number: 3014285893

Company: EchoStar Broadcasting Fax Number: 3014282818

Corporation

Street: 11717 Exploration Lane E–Mail: jennifer.manner@echostar.com

City: Germantown State:

Country: USA Zipcode: 20876–

Attention: Relationship:

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.	(N/A) b1. Application for License of New Station (N/A) b2. Application for Registration of New Domestic Receive—Only Station b3. Amendment to a Pending Application
a1. Earth Station a2. Space Station	 b4. Modification of License or Registration b5. Assignment of License or Registration b6. Transfer of Control of License or Registration 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 (N/A) b10. Other (Please specify) (N/A) 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) b12. Application for Database Entry b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry
17c. Is a fee submitted with this application of the submitted with th	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
17d. Fee Classification CGX – Fixed Satellite T Station	Transmit/Receive Earth

18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending armodification please enter only the file number:	oplication enter both fields, if this filing is a
(a) Call sign of station: E050373	(a) Date pending application was filed:	(b) File number: SESMOD2013020600160

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following 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) Direct Broadcast Service	
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
23. If applicant is providing INTERNATIONAL COMMON CARRIER sefacilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a I	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: 12200	Frequency Upper: 17800	(Please specify additional frequencies in an attachment)						
TYPE OF STATION								
25. CLASS OF STATION: Choose the	button next to the class of station t	hat applies. Choose only one.						
a. Fixed Earth Station								
b. Temporary–Fixed Earth Station								
c. 12/14 GHz VSAT Network								
d. Mobile Earth Station								
e. Geostationary Space Station								
f. Non–Geostationary Space Station								
g. Other (please specify)								
26. TYPE OF EARTH STATION FAC	ILITY:							
Transmit/Receive Transmit-Only Receive-Only N/A								
"For Space Station applications, select 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.)					
a — authorization to add new emission designator and related service					
b — authorization to change emission designator and related service					
c — authorization to increase EIRP and EIRP density					
d — authorization to replace antenna					
e — authorization to add antenna					
f — authorization to relocate fixed station					
g — authorization to change frequency(ies)					
h — authorization to add frequency					
i — authorization to add Points of Communication (satellites & mp; countries)					
j — authorization to change Points of Communication (satellites & mp; countries)					
k — authorization for facilities for which environmental assessment and					
radiation hazard reporting is required					
1 — authorization to change orbit location					
m — authorization to perform fleet management					
n — authorization to extend milestones					
o — Other (Please specify)					

ENVIRONMENTAL POLICY

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.	_		~			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	ı rou	ite or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	•	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?	0	Yes	0	No	•	N/A

 $lackbox{ Yes } lackbox{ No}$

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

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 🍙 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	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.	Yes	O 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.	• 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	• 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.	• 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.	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?	vhat administr	ration 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.)

Modification application to add an additional antenna facility designated VAT1, correct existing licensed antenna information, add a point of communications, and correct other points of communications. See the attached narrative.

Narrative & Exhibits

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

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.

44. Applicant is a (an): (Choose the but	tton next to applicable response.)	
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 		
45. Name of Person Signing Jesse T. Jachman >	46. Title of Person Signing Senior Counsel, Regulatory Affairs	

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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

Location of Earth St	ation Site					
E1: Site Identifier:	Mt. Jackson	E5. Call Sign:	E050373			
E2: Contact Name	Silas Cole	E6. Phone Number:	307–633–5225			
E3. Street:	1335 Wissler Road	E7. City:	Quicksburg			
		E8. County:	Shenandoah			
E4. State	VA	E9. Zip Code	22847			
E10. Area of Operat	tion:	CONUS				
E11. Latitude:	38 °43 '22.4 "N					
E12. Longitude:	78 °39 '58.5 "W					
E13. Lat/Lon Coordinates are:		O NAD-27	● NAD-83	O N/A		
E14. Site Elevation (AMSL):		282.2 meters				

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.	by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite S Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed gain patterns specified in Section 25.209(a2) and (b) as demonstrated measurements?	roposed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the log point.	cation and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency co	oordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	e name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25. have you attached a copy of a completed FCC Form 854 and/or the FA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	AA's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		1		
Satellite Name: ECHOSTAR 15 (S2811) ECHOSTAR 15 (S2811) 4	5.1 W.L. If you selected OTHER, please en	ter the follo	owing:	
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	1			
E25. Site Identifier:				

E26. Common Name:	E27. Country:
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
Mt. Jackson	VAT1	1	GDSatcom	13.2 Meter	13.2	62.0 dBi at 12.2	
Mt. Jackson	VAT1	1	GDSatcom	13.2 Meter	13.2	65.0 dBi at 17.3	

Id	Diameter		, ,	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
VAT1	0.0/0.0	13.2	295.44	0.0	1600.0	0.0	97.0

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
VAT1	12200 12700	R	Left and Right Circular	300KG2D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Telemetry	Beacon (TT&C)					
VAT1	12200 12700	R	Left and Right Circular	24M0G7W	0.0	0.0
entirety.) Digital Co	empressed Video					
VAT1	17300 17800	Т	Left and Right Circular	1M50G2D	87.4	61.6
E50. Modulation entirety.) Command Ca	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
VAT1	17300 17800	Т	Left and Right Circular	24M0G7W	87.4	49.6

E	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	
entii	rety.)	
	Digital Compressed Video	

FREQUENCY COORDINATION

E28. Antenna Id		` ′		Station Azimuth Angle	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)
VAT1	Geostationary	12200 17800	34.0/151.0	122.3	25.9	258.7	5.0	9.1

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number		
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

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