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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 of Call Sign E050017

1–8.	Legal	Name	of A	pplicant
1 0.	Legar	1 tuille	0111	pricuit

Name: EchoStar Corporation Phone Number: 303–723–1000

DBA Fax Number:

Name:

Street: 90 Inverness Circle E. E–Mail:

City: Englewood State: CO

Country: USA Zipcode: 80112 -

Attention: Linda Kinney – (202)293–0981

9–16. Name of Contact Representative

Name: Pantelis Michalopoulos Phone Number: 202–429–6494

Company: Steptoe & Johnson LLP Fax Number:

Street: 1330 Connecticut Ave., NW E-Mail: pmichalopoulos@steptoe.com

City: Washington State: DC

Country: USA Zipcode: 20036–

Attention: Relationship: Legal Counsel

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.

a1. Earth Station

a2. Space Station

(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

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 applicati		
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (se	e 47 C.F.R.Section 1.1114).
O Governmental Entity O Noncomme	rcial educational licensee	
Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite T Station	ransmit/Receive Earth	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending ap modification please enter only the file number:	oplication enter both fields, if this filing is a
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
E050017		SESMFS2005120701705

TYPE 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:
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 Satellite (D	(BS)
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 facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
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 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: 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 that 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 FACILITY:	
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 & Countries)
j — authorization to change Points of Communication (satellites & tountries)
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.	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.	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.	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.)

EchoStar Corporation seeks to modify its transmit/receive earth station authorization to operate it with the EchoStar 8 satellite once it is moved from 110 W.L. to 77 W.L. and to make related technical changes. See attached narrative.

Narrative

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 button next to ap	oplicable response.)
O Individual	
Unincorporated Association	
Partnership	
Corporation	
Governmental Entity	
Other (please specify)	
_	
45. Name of Person Signing	46. Title of Person Signing
Linda Kinney	Vice President, Law and Regulation
>	
WILLFUL FALSE STATEMENTS MAI	DE 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 Station Site E1: Site Identifier: Gilbert E5. Call Sign: E050017 E2: Contact Name Silas Cole E6. Phone 307-633-5225 Number: E3. Street: 801 N. Dish Drive E7. City: Gilbert E8. County: Maricopa E4. State AZE9. Zip Code 85233 E10. Area of Operation: USA E11. Latitude: 33 °21 '55.9 "N E12. Longitude: 111 °48 '50.0 "W E13. Lat/Lon Coordinates are: NAD-27 **⋒** NAD-83 N/A E14. Site Elevation (AMSL): 371.3 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.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	⊚ Yes	O No	O N/A	
E17. Is the facility operated by remote control? If YES, provide the loca point.	ation and telephone number of the control	O Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the a coordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAZ the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	O Yes	•	No	
POINTS OF COMMUNICATION		<u> </u>		
Satellite Name: OTHER OTHER If you selected OTHER, please e	enter the following:			
E21. Common Name: EchoStar 8	E22. ITU Name:			
E23. Orbit Location: 77 W.L.	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	•			·
E25. Site Identifier:				

E26. Common Name:	E27. Country:
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
Gilbert	GT7	1	Vertex/TIW	13.2 Meter	13.2	62.0 dBi at 12.7	
Gilbert	GT7	1	Vertex/TIW	13.2 Meter	13.2	65.0 dBi at 17.8	
Gilbert	GT8	1	Vertex/TIW	13.2 Meter	13.2	62.0 dBi at 12.7	
Gilbert	GT8	1	Vertex/TIW	13.2 Meter	13.2	65.0 dBi at 17.8	

Id	Diameter	E35. Above Ground Level (meters)	` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
GT7	0.0/0.0	13.2	384.45	0.0	1600.0	0.0	97.04
GT8	0.0/0.0	13.2	384.45	0.0	1600.0	0.0	97.04

FREQUENCY

E43/44. Frequency Bands				E48. Maximum EIRP per Carrier	E49. Maximum ERIP Density per
(MHz)	1/K\bi>ivioue	L,R)	Designator	(dBW)	Carrier
					(dBW/4kHz)

GT7	12200 12210	R	Left and Right Circular	800KG2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear i	n this box, please go t	to the end of the form	n to view it in its
Telemetry						
GT7	12690 12700	Т	Left and Right Circular	800KG2D	0.0	0.0
Telemetry						
GT7	17300 17310	Т	Left and Right Circular	800KG2D	82.1	59.1
E50. Modulation entirety.) Telecomman		ne complete descripti	on does not appear i	n this box, please go	to the end of the form	n to view it in its

GT7	17790 17800	Т	Left and Right Circular	800KG2D	82.1	59.1
E50. Modulat entirety.)	tion and Services (If the complete d	lescription does not appear	in this box, please	go to the end of t	he form to view it in its
Telecomr	mand					
GT7	12200 12700	Т	Left and Right Circular	24M0G7W	0.0	0.0
Data Car	rrier					
GT7	17300 17800	Т	Left and Right Circular	24M0G7W	87.4	51.1
E50. Modulatentirety.) Data Car		If the complete of	lescription does not appear	in this box, please	go to the end of t	he form to view it in its

GT8	12200 12210	R	Left and Right Circular	800KG2D	0.0	0.0
E50. Modulatio entirety.)	n and Services (I	f the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Telemetry						
GT8	12690 12700	R	Left and Right Circular	800KG2D	0.0	0.0
entirety.) Telemetry						
GT8	17300 17310	R	Left and Right Circular	800KG2D	82.1	59.1
E50. Modulatio entirety.)	n and Services (I	f the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Telecomma	nd					

GT8	17790 17800	Т	Left and Right Circular	800KG2D	82.1	59.1
E50. Modu entirety.)	lation and Services ((If the complete d	escription does not appear	in this box, please	go to the end of the	ne form to view it in its
Teleco	mmand					
GT8	12200 12700	R	Left and Right Circular	24M0G7W	0.0	0.0
GT8	17300 17800	Т	Left and Right Circular	24M0G7W	87.4	51.1
				II.		
E50. Modu	lation and Services ((If the complete d	escription does not appear	in this box, please	go to the end of the	ne form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	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)
			/					
REMOTE CC	NTROL POIN	T LOCATION	•	•	•	•		•
		•	olling station, not		. Phone Number			

E68. County

E64. Zip Code

E67/68. State/Country

E62. Street Address

E63. City

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