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File Number: SES-MFS-20051207-01700

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: E970394 (GT1) – Modification to Add Points of Communication

E270324 (G11) 1010	diffication to Add I offits of Com	numeuron	
1–8. Legal Name of Ap	pplicant		
Name:	EchoStar Satellite Operating Corporation	Phone Number:	303-723-1000
DBA Name:		Fax Number:	303–723–1699
Street:	9601 South Meridian Boulevard	E-Mail:	
City:	Englewood	State:	CO
Country:	USA	Zipcode:	80112 –
Attention:	David K Moskowitz		

9–16. Name of Contact Representative

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

Company: Steptoe & Johnson LLP Fax Number: 202–429–3902

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

City: Washington State: DC

Country: USA **Zipcode:** 20036–1795

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

 $\ \ \, \bigcirc \ \, (N/A)$ b3. Amendment to a Pending Application

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

b5. Assignment of License or Registration

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

(N/A) b10. Other (Please specify)

17c. Is a fee submitted with this applicati			
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:	
E970394		SESMOD2003070800957	

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) Feeder Link for DBS in Fixe	d Satellite
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 stacilities:	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 & Double
j — authorization to change Points of Communication (satellites & amp; 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

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	O Yes O No
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.	Response to Q.28

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	٥	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

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?	0	Yes	0	No ₁	⊚ 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.	ı	O Yo	es	•	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		• Yo	es	0	No	
construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	Resp	onse 1	to Q	.36		

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.	Yes Response to Q.4	○ 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? Canada	l, what administra	ntion 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.)

This modification requests authority to add EchoStar 10 at 110 W.L., a new DBS satellite to be launched in early 2006, and EchoStar 5 at 129 W.L. as points of communication. No other changes are requested.

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.

46. Title of Person Signing Executive Vice President and General Counsel

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:	GT1	E5. Call Sign:	E970394			
E2: Contact Name	Silas Cole	E6. Phone Number:	(307) 633–5225			
E3. Street:	801 North America Sky Blvd.	E7. City:	Gilbert			
		E8. County:	Maricopa			
E4. State	AZ	E9. Zip Code	85233			
E10. Area of Operat	ion:	United States				
E11. Latitude:	33 °21 '55.3 "N					
E12. Longitude:	111 °48 '49.7 "W					
E13. Lat/Lon Coord	linates are:	● NAD-27	O NAD-83	O N/A		
E14. Site Elevation	(AMSL):	371.2 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 Ser Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	tion and telephone number of the control	O Yes	•	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 n coordination contours as	name of the country(ies) and plot of			No
		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 FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL I APPLICATION.	a's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		·!		-
Satellite Name: ECHOSTAR 7 USABSS 7 119 W.L. If you selected	d OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: ECHOSTAR 4 USABSS 10 157 W.L. If you selecte	ed OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:								
E23. Orbit Location:	E24. Country:								
Satellite Name: ECHOSTAR 2 ECHOSTAR 2 148 W.L. If you selected OTHER, please enter the following:									
E21. Common Name:	E22. ITU Name:								
E23. Orbit Location:	E24. Country:								
Cotallita Nama OTHED OTHED If you calcuted OTHED along	anton the College in a								
Satellite Name: OTHER OTHER If you selected OTHER, please									
E21. Common Name: EchoStar 10	E22. ITU Name: USABSS 26								
E23. Orbit Location: 110 W.L.	E24. Country: USA								
Satellite Name: ECHOSTAR 8 USABSS 8 110 W.L. If you select	ted OTHER, please enter the following:								
E21. Common Name:	E22. ITU Name:								
E23. Orbit Location:	E24. Country:								
Satellite Name: ECHOSTAR 6 USABSS 6 110 W.L. If you select	ted OTHER, please enter the following:								
E21. Common Name:	E22. ITU Name:								
E23. Orbit Location:	E24. Country:								
	<u> </u>								
Satellite Name: ECHOSTAR 5 USABSS 5 119 W.L. If you select	ted OTHER, please enter the following:								
E21. Common Name:	E22. ITU Name:								
E23. Orbit Location:	E24. Country:								
Satellite Name: ECHOSTAR 3 USABSS 8 61.5 W.L. If you selec	eted OTHER, please enter the following:								

E21. Common	n Name:	E22. ITU Name:							
E23. Orbit Loc	cation:			E24. Country:					
				•					
Satellite Name	e:ECHOSTAR I US	SABSS 3 148.0 W	L. If you select	ed OTHER, pleas	se enter the followir	ng:			
E21. Common	Name:			E22. ITU Name:					
E23. Orbit Loc	cation:			E24. Country:					
				•					
Satellite Name	e:ECHOSTAR 5 US	SABSS 5 129 W.I	L. If you selected	d OTHER, please	e enter the following	:			
E21. Common	Name:			E22. ITU Name	e:				
E23. Orbit Loc	cation:			E24. Country:					
POINTS OF	F COMMUNICAT	ION (Destination	Points)	•					
E25. Site Iden	tifier:								
E26. Common	n Name:			E27. Country:					
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)			
GT1	GT1	1	Vertex	13 KPK	13.0	62.6 dBi at 12.4500			
GT1	GT1	1	Vertex	13 KPK	13.0	65.3 dBi at 17.5500			

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)		Above nd Level rs)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Pow antenna fla (Watts)	er at	E39. Maximum Antenna Heig Above Roofton (meters)	ht EIRP for al
GT1	0.0/0.0	13.7		385.0		0.0		1645.0		0.0	97.46
FREQUENCY		1		<u>I</u>		1		I		I	
E28. Antenna Id	E43/44. Frequency Ba (MHz)		E45. Γ/R M	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
GT1	12200.0000 12700.0000	F	3		Left and l Circular	Right	26M00	G7F	0.0		0.0
E50. Modulation entirety.)	on and Services	(If the	complete d	lescripti	on does no	t appear in	this bo	x, please go	to the	end of the form	to view it in its

GT1	12200.0000 127000.0000	R	Left and Right Circular	26M0G7D	0.0	0.0
E50. Modulation entirety.) DBS	and Services (If the	he complete description	on does not appear in	this box, please go to	the end of the form	to view it in its

GT1	12200.3500 12200.6500	R	Horizontal and Vertical	300KG2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	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
TT&C for E	choStar 4					
GT1	12200.5000 12201.5000	R	Horizontal and Vertical	1M00G2D	0.0	0.0
TT&C for E	choStar 3					
GT1	12202.3500 12202.6500	R	Horizontal and Vertical	300KG2D	0.0	0.0
E50. Modulation entirety.)	`	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

GT1	12202.5000 12203.5000	R	Horizontal and Vertical	1M00G2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear i	n this box, please go	to the end of the form	to view it in its
TT&C for E	choStar 3					
GT1	12698.3500 12698.6500	R	Horizontal and Vertical	300KG2D	0.0	0.0
TT&C for E	choStar 4					
GT1	12698.5000 12699.5000	R	Horizontal and Vertical	1M00G2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear i	n this box, please go	to the end of the form	to view it in its
TT&C for E	choStar 3					

GT1	17300.0000 17800.0000	Т	Left and Right Circular	26M0G7D	87.4	49.3
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear	in this box, please go	to the end of the fo	orm to view it in its
Feeder Lin	k					
GT1	17300.0000 17800.0000	Т	Left and Right Circular	26M0G7F	87.4	49.3
Feeder Lin	k					
GT1	12200.0000 12700.0000	R	Horizontal and Vertical	1M50G2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear	n this box, please go	to the end of the fo	orm to view it in its
TT&C for E	choStar 5 and	EchoStar 6				

17300.5000 17301.5000	Т	Left and Right Circular	1M50G2D	87.4	49.3
ion and Services (If	the complete d	escription does not appear	in this box, please	go to the end of the	he form to view it in its
and Command Be	eacon (TT&C				
17301.5000 17302.5000	Т	Left and Right Circular	1M00G2D	73.2	49.3
and Command Bo	eacon (TT&C	:)			
17304.5000 17305.5000	Т	Left and Right Circular	1M50G2D	75.0	49.3
			in this box, please	go to the end of the	he form to view it in its
	17301.5000 and Services (If and Command Be 17301.5000 17302.5000 ion and Services (If and Command Be 17304.5000 17305.5000 ion and Services (If	17301.5000 and Command Beacon (TT&C) 17301.5000 17302.5000 Ion and Services (If the complete decomplete dec	17301.5000 Circular	17301.5000 Circular	17301.5000 Circular Circular and Command Beacon (TT&C) 17301.5000 T

GT1	17307.5000 17308.5000		Left and Right Circular	1M50G2D	75.0	49.3				
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.)										
Tracking and Command Beacon (TT&C)										

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
GT1	Geostationary	12200.0000 12700.0000	39.0/185.0	99.7	5.6	260.6	5.3	0.0
	Geostationary	17300.0000 17800.0000	39.0/185.0	99.7	5.6	260.6	5.3	-2.2

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the 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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