

Date & Time Filed: May 27 2005 5:39:22:113PM  
File Number: SES-MFS-20050527-00663

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 E950288 (T3/T4)

1-8. Legal Name of Applicant			
<b>Name:</b>	EchoStar Satellite L.L.C.	<b>Phone Number:</b>	303-723-1000
<b>DBA Name:</b>		<b>Fax Number:</b>	303-723-1699
<b>Street:</b>	9601 South Meridian Blvd.	<b>E-Mail:</b>	
<b>City:</b>	Englewood	<b>State:</b>	CO
<b>Country:</b>	USA	<b>Zipcode:</b>	80112 -
<b>Attention:</b>	David K Moskowitz		

9-16. Name of Contact Representative

<b>Name:</b>	Pantelis Michalopoulos	<b>Phone Number:</b>	202-429-6494
<b>Company:</b>	Steptoe & Johnson LLP	<b>Fax Number:</b>	202-429-3902
<b>Street:</b>	1330 Connecticut Ave., N.W.	<b>E-Mail:</b>	pmichalo@steptoe.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036-1795
<b>Attention:</b>		<b>Relationship:</b>	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
- (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)

<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</p> <p><input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other(please explain):</p>	
<p>17d.</p> <p>Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: E950288</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed:</p> <p>(b) File number: SESMOD2003030300293</p>

**TYPE OF SERVICE**

<p>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:</p> <p><input type="checkbox"/> a. Fixed Satellite</p> <p><input type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input checked="" type="checkbox"/> g. Other (please specify)                      DBS Service</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier      <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input checked="" type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network      <input type="radio"/> Not connected to a Public Switched Network      <input checked="" type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).</p> <p><input type="checkbox"/> a. C-Band (4/6 GHz)      <input type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>                    Frequency Lower: 12200                      Frequency Upper: 17800                      (Please specify additional frequencies in an attachment)</p>	

## 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 & countries)
- k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l -- authorization to change orbit location
- m -- authorization to perform fleet management
- n -- authorization to extend milestones
- o -- Other (Please specify)

ENVIRONMENTAL POLICY

<p>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 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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No Rad. Haz.</p>
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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.

<p>29. Is the applicant a foreign government or the representative of any foreign government?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>
<p>30. Is the applicant an alien or the representative of an alien?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>31. Is the applicant a corporation organized under the laws of any foreign government?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>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?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>

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?

Yes  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 explanation of circumstances.

Yes  No

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 explanation 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 exhibit, 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  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, what administration has coordinated or is in the process of coordinating the space station?Canada

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 requests authority to modify its license for E950288 to add EchoStar 5 at 129 W as a point of communication, expand the authorized satellite arc to allow feeder link operations with EchoStar 5 at 129 W, and modify authorized frequencies for TT&C operations. The public interest justifications for relocating EchoStar 5 to 129 W are set

## 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 applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing  
David K. Moskowitz

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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 Station Site

E1. Site Identifier:	T3 and T4	E5. Call Sign:	E950288
E2. Contact Name	Silas Cole	E6. Phone Number:	307-633-5225
E3. Street:	530 EchoStar Drive	E7. City:	Cheyenne
E4. State	WY	E8. County:	Laramie
E9. Zip Code	82007	E10. Area of Operation:	CONUS
E11. Latitude:	41 °7 '56.0 "N		
E12. Longitude:	104 °44 '9.0 "W		
E13. Lat/Lon Coordinates are:	<input checked="" type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	1808.4 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     No     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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as Freq. Coordination	<input checked="" type="radio"/> Yes <input type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<p>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?</p> <p><b>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b></p>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

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:

Satellite Name: ECHOSTAR 5   USABSS 5   119 W.L.    If you selected OTHER, please enter the following:
--

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

Satellite Name: ECHOSTAR 7   USABSS 7   119 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER   OTHER   If you selected OTHER, please enter the following:	
E21. Common Name: EchoStar 1	E22. ITU Name: USABSS-3
E23. Orbit Location: 148 W	E24. Country: USA

Satellite Name: ECHOSTAR 3   USABSS 8   61.5 W.L. If you selected 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 selected 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 selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ECHOSTAR 8   USABSS 8   110 W.L. If you selected OTHER, please enter the following:	
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E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: OTHER   OTHER   If you selected OTHER, please enter the following:	
E21. Common Name: EchoStar 5	E22. ITU Name: USABSS-5
E23. Orbit Location: 129 W	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	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna Gain Transmint and/or Recieve (____dBi at ____GHz)
T3 and T4	T3	1	TIW	LMATT 13.2	13.2	62 dBi at 12
T3 and T4	T3	1	TIW	LMATT 13.2	13.2	65 dBi at 18
T3 and T4	T4	1	TIW	LMATT 13.2	13.2	62 dBi at 12
T3 and T4	T4	1	TIW	LMATT 13.2	13.2	65 dBi at 18

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
T3	0.0/0.0	14.1	1822.5	0.0	1400.0	0.0	96.4
T4	0.0/0.0	14.1	1822.5	0.0	1400.0	0.0	96.4

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)
T3	12200.0000 12700.0000	R	Left and Right Circular	24M0M1F	0.0	0.0
<p>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.)</p> <div data-bbox="254 561 1856 735" style="border: 1px solid black; padding: 5px;">                     Digital Compressed Video                 </div>						
T3	12200.0000 12210.0000	R	Horizontal and Vertical	300KG2D	0.0	0.0
<p>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.)</p> <div data-bbox="254 951 1856 1125" style="border: 1px solid black; padding: 5px;">                     Telemetry &amp; Tracking Beacon (TT&amp;C)                 </div>						
T3	12690.0000 12700.0000	R	Horizontal and Vertical	300KG2D	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.)						
Telemetry & Tracking Beacon (TT&C)						
T3	17300.0000 17310.0000	T	Left and Right Circular	1M50G2D	87.4	61.66
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.)						
Command Beacon (TT&C)						
T3	17790.0000 17800.0000	T	Left and Right Circular	1M50G2D	87.4	61.66
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.)						
Command Beacon (TT&C)						
T3	17300.0000 17800.0000	T	Left and Right Circular	24M0M1F	87.4	49.62

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.)						
Digital Compressed Video						
T4	12200.0000 12700.0000	R	Left and Right Circular	24M0M1F	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.)						
Digital Compressed Video						
T4	12200.0000 12210.0000	R	Horizontal and Vertical	300KG2D	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.)						
Telemetry & Tracking Beacon (TT&C)						
T4	12690.0000 12700.0000	R	Horizontal and Vertical	300KG2D	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.)						
Telemetry & Tracking Beacon (TT&C)						
T4	17790.0000 17800.0000	T	Left and Right Circular	1M50G2D	87.4	61.66
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.)						
Command Beacon (TT&C)						
T4	17300.0000 17800.0000	T	Left and Right Circular	24M0M1F	87.4	49.62
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.)						
Digital Compressed Video						
T4	17300.0000 17310.0000	T	Left and Right Circular	1M50G2D	87.4	61.66

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.)

Telemetry & Tracking Beacon

**FREQUENCY COORDINATION**

<b>E28. Antenna Id</b>	<b>E51. Satellite Orbit Type</b>	<b>E52/53. Frequency Limits(MHz)</b>	<b>E54/55. Range of Satellite Arc Eastern/Western Limit</b>	<b>E56. Earth Station Azimuth Angle Eastern Limit</b>	<b>E57. Antenna Elevation Angle Eastern Limit</b>	<b>E58. Earth Station Azimuth Angle Western Limit</b>	<b>E59. Antenna Elevation Angle Western Limit</b>	<b>E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)</b>
T3	Geostationary	12200.0000 12210.0000	34.0/176.0	102.9	5.7	257.4	5.3	0.0
	Geostationary	12200.0000 12700.0000	34.0/176.0	102.9	5.7	257.4	5.3	0.0
	Geostationary	12690.0000 12700.0000	34.0/176.0	102.9	5.7	257.4	5.3	0.0
	Geostationary	17300.0000 17310.0000	34.0/176.0	102.9	5.7	257.4	5.3	12.8
	Geostationary	17300.0000 17800.0000	34.0/176.0	102.9	5.7	257.4	5.3	-4.9

	Geostationary	17790.0000 17800.0000	34.0/176.0	102.9	5.7	257.4	5.3	12.8
T4	Geostationary	12200.0000 12210.0000	34.0/176.0	102.9	5.7	257.4	5.3	0.0
	Geostationary	12200.0000 12700.0000	34.0/176.0	102.9	5.7	257.4	5.3	0.0
	Geostationary	12690.0000 12700.0000	34.0/176.0	102.9	5.7	257.4	5.3	0.0
	Geostationary	17300.0000 17310.0000	34.0/176.0	102.9	5.7	257.4	5.3	12.8
	Geostationary	17300.0000 17800.0000	34.0/176.0	102.9	5.7	257.4	5.3	-4.9
	Geostationary	17790.0000 17800.0000	34.0/176.0	102.9	5.7	257.4	5.3	12.8

**REMOTE CONTROL POINT LOCATION**

<p>E61. Call Sign</p> <p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>	<p>E66. Phone Number</p>
<p>E62. Street Address</p>	

E63. City	E68. County	E67/68. State/Country /	E64. Zip Code
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**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**

**43. Description. (Summarize the nature of the application and the services to be provided).**

EchoStar requests authority to modify its license for E950288 to add EchoStar 5 at 129 W as a point of communication, expand the authorized satellite arc to allow feeder link operations with EchoStar 5 at 129 W, and modify authorized frequencies for TT&C operations. The public interest justifications for relocating EchoStar 5 to 129 W are set forth in EchoStar applications in File Nos. SAT-STA-20050203-00018 and SES-LFS-20050203-00133. See SES-LFS-20050203-00133 for the information specified in 47 C.F.R. 25.137 for EchoStar 5 at 129 W.