Date & Time Filed: Dec 21 2005 12:51:51:413PM File Number: SAT-MOD-20051221-00267

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EchoSter 10@110.Z° WOLO

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Refiled Application for Minor Modification to DBS Authorizations and to Launch and Operate EchoStar 10 at 110 W.L.

cant

Name:

EchoStar Satellite Operating

Phone Number:

303-723-1000

Corporation

DBA

Fax Number:

303-723-1699

Name: Street:

9601 South Meridian Boulevard

E-Mail:

City:

Englewood

State:

CO

Country:

USA

Zipcode:

80112

David K Moskowitz Attention:

See also:

8AT-AMD-20060120-00007

8AT- MOD-20060329-00031



File # 8AT-10A -20051221-00267 Call Sign 5 2694 Grant Date May 11, 2006

ATTACHMENT IBFS File Nos. SAT-LOA-20051221-00267, SAT-AMD-20060120-00007, and SAT-MOD-20060329-00031 Call Sign: S2694

Grant Date: May 11, 2006

EchoStar Satellite Operating Corporation's (EchoStar) application¹ to construct, launch, and operate a direct broadcast satellite (DBS), EchoStar 10 (Call Sign: S2694),² IBFS File No. SAT-LOA-20051221-00267, as amended by IBFS File No. SAT-AMD-20060120-00007, and EchoStar's subsequent modification request, IBFS File No. SAT-MOD-20060329-00031, to locate the satellite at the 110.2° W.L. orbital location ARE GRANTED. Accordingly, EchoStar is authorized to operate the EchoStar 10 DBS space station at the 110.2° W.L. orbital location with feeder links (Earth to space) in the 17.3–17.8 GHz band on DBS channels 2-7, 9-27, 29, and 31, and service links (space to Earth) in the 12.2–12.7 GHz band on DBS channels 4, 12, 18, 20, 23, 25, 26, 27, 29, and 31³ in accordance with the terms, conditions, and technical specifications set forth in its application, the Federal Communication Commission's (Commission) rules, and the conditions below.⁴

1. EchoStar and DIRECTV have entered into an operator agreement with respect to service links on channels 27, 29, and 31 on the EchoStar 10 satellite at the 110° W.L. nominal orbital location.⁵ Accordingly, this grant is conditioned upon EchoStar operating service link channels 27, 29, and 31 at the 110.2° W.L. orbital location on the EchoStar 10 satellite in conformance with the operator agreement. EchoStar will inform the Commission in writing via letter to the Chief, Satellite Division, International Bureau, if the operator agreement expires by its own terms or is cancelled by either party to the agreement.

¹ The application as amended was previously granted, in part, and deferred, in part, with an effective date of March 27, 2006. See Public Notice, Report No. SAT-00351 (rel. March 31, 2006) (IBFS File Nos. SAT-LOA-20051221-00267, SAT-AMD-20060120-00007) (EchoStar 10 Partial Grant). Specifically, EchoStar was granted with conditions authority to operate the EchoStar 10 satellite at the 110.0° W.L. orbital location with feeder links (Earth to space) in the 17.3-17.8 GHz band on DBS channels 2-7, 9-27, 29, and 31, and service links (space to Earth) in the 12.2-12.7 GHz band on DBS channels 4, 12, 18, 20, 23, 25, and 26. Action on EchoStar's request to operate service links on DBS channels 27, 29, and 31 at the 110° W.L. nominal orbital location was deferred pending Commission review of objections filed by DIRECTV Enterprises, LLC (DIRECTV). Subsequent to the EchoStar 10 Partial Grant, EchoStar and DirecTV entered into an operator agreement concerning the operations of EchoStar 10 at the nominal 110° W.L. orbital location. See Letter from Pantelis Michalopoulos, Counsel for EchoStar Satellite Operating Corp., to Robert Nelson, Chief, Satellite Division, International Bureau, Federal Communications Commission, dated April 24, 2006 (April 24, 2006 Letter); Joint Letter from William M. Wiltshire, Counsel for DIRECTV Enterprises, LLC, and Pantelis Michalopoulos, Counsel for EchoStar Satellite Operating Corp., to Robert Nelson, Chief, Satellite Division, International Bureau, Federal Communications Commission, dated May 1, 2006 (May 1, 2006 Letter).

² EchoStar is authorized to provide DBS service on DBS channels 1-27, 29, and 31 at the 110° W.L. nominal orbital location. See Application for Minor Modification of Four DBS Space Station Authorizations, Memorandum, Opinion and Order 18 FCC Rcd. 15,211 (Sat. Div. 2003); EchoStar Satellite Corporation, Application for Minor Modification of Direct Broadcast Satellite Authorization, Launch and Operating Authority for EchoStar VIII, Order and Authorization, 17 FCC Rcd 11,326 (Sat. Div. 2002).

³ This action supersedes EchoStar's special temporary authority to operate EchoStar 10 at the 110.2° W.L. orbital location, SAT-STA-20060330-00032, which was granted on April 5, 2006. See Public Notice, Report No. SAT-00352 (rel. April 7, 2006).

⁴ For the sake of clarity, all relevant conditions included in the earlier grant are repeated in this grant.

⁵ April 24, 2006 Letter; May 1, 2006 Letter.

- 2. EchoStar's request for waiver of Section 25.210(i), of the Commission's rules, 47 C.F.R. § 25.210(i), for the EchoStar 10 satellite located at the 110° W.L. nominal orbital location, IS GRANTED as conditioned. Section 25.210(i) requires Fixed-Satellite Service (FSS) space station antennas to be designed to meet a cross-polarization isolation of 30 dB within the primary coverage area of the antenna. EchoStar indicates that the cross-polarization isolation of some of the antennas in EchoStar 10's primary coverage area will be less than the minimum 30 dB required by the rules, and is a minimum of 24.6 dB for the feeder-link receiving antennas, which operate in the FSS. This shortfall will not produce a significant increase in interference, except to the applicant itself. As a condition of the waiver, EchoStar shall claim no more protection from interference from other licensed radiocommunication systems operating in accordance with the Commission's rules than if its feeder-link receiving antennas had met Section 25.210(i) of our rules. Grant of this waiver request is consistent with our precedent.
- 3. EchoStar's request for waiver of Section 25.215 of the Commission's rules, 47 C.F.R. § 25.215, for the EchoStar 10 satellite located at 110.2° W.L. orbital location, IS GRANTED as conditioned.9 Section 25.215 requires DBS space station service link antennas to be designed to meet a cross-polarization isolation of 30 dB within the primary coverage area of the antenna. 10 EchoStar states that the cross-polarization isolation of some of the service-link transmitting antennas of the EchoStar 10 satellite's primary coverage area is slightly less that the minimum 30 dB required by Section 25.515, and is a minimum of 28.8 dB for the service-link transmitting antennas within the primary service area of the antennas covering U.S. territory, 11 The Commission has stated that licensees may use cross-polarization isolation which is different from that specified for the Region 2 BSS Plan if they demonstrate that such a difference does not result in interference to other operational or planned systems, including U.S.-licensed systems. 12 As a condition of this waiver, EchoStar must coordinate the operations of EchoStar 10 with other potentially affected radiocommunication systems, and operate on a non-harmful interference basis with respect to any DBS space stations that are in compliance with the cross-polarization isolation requirement. Also, since the intra-system cross-polarization interference caused by EchoStar 10 not meeting the requirements of Section 25.215 must be factored into EchoStar's own link budgets, EchoStar shall not claim any more protection from interference from other radiocommunication systems operating in accordance with the Commission's rules than if it met the requirements of Section 25.215.

^{6 47} C.F.R. § 25.210(i).

⁷ IBFS File No. SAT-LOA-20051221-00267, EchoStar Satellite Operating Corporation, Application to Make Minor Modifications to Direct Broadcast Satellite Authorizations and For Launch and Operating Authority for the EchoStar 10 satellite (EchoStar 10 Application), Section A.11, page 13.

⁸ Star One S.A.; Petition for Declaratory Ruling to Add The Star One C1 Satellite at 65° W.L. to the Permitted Space Station List, *Order*, 19 FCC Rcd 16334 (Sat. Div. 2004) (finding that the impact on neighboring satellite systems of a 3-5 dB difference from the required cross polarization isolation ratio would be negligible).

⁹ In the *EchoStar 10 Partial Grant*, EchoStar's request for waiver of Section 25.215 of the Commission's rules, 47 C.F.R § 25.215, for the EchoStar 10 satellite located at 110° W.L. nominal orbital location was granted in part as conditioned and deferred with respect to the channels not addressed in that action.

^{10 47} C.F.R. § 25.215.

¹¹ EchoStar 10 Application, Section A.11, page 13.

¹² See EchoStar Satellite Corp., Directsat Corp., EchoStar DBS Corp. Application for Authority to Make Minor Modifications to Direct Broadcast Satellite Authorizations, Launch, and Operational Authority, Memorandum Opinion and Order, 13 FCC Rcd 8595, 8604 at para. 17 (1998).

- 4. EchoStar must maintain the EchoStar 10 satellite at 110.2 deg. W.L. with +/- 0.05 degree longitudinal stationkeeping. See 47 C.F.R. § 25.210(j).
- 5. Pursuant to Section 25.111(c) of the Commission's rules, 47 C.F.R. § 25.111(c), EchoStar shall provide the Commission with all information it requires in order to modify the Appendix 30 Broadcasting-Satellite Service Plans and associated Appendix 30A feeder-link Plans to incorporate the characteristics of the Broadcasting-Satellite Service space station of the EchoStar 10 satellite, USABSS-26, in accordance with the ITU Radio Regulations. EchoStar shall be held responsible for all cost recovery fees associated with these ITU filings. We also note that no protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, by successfully completing coordination agreements. Any radio station authorization for which coordination has not been completed and/or for which the necessary agreements under Appendices 30 and 30A have not been obtained may be subject to additional terms and conditions as required to effect coordination or obtain the agreement of other Administrations.
- The 10-year license term for the EchoStar 10 satellite began to run on April 10, 2006 and will expire on April 9, 2016.
- EchoStar is afforded thirty days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
- 8. This Grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

See also 8 AT-AMD-20060170-00007 8 AT-MOD-20060329-00031 Call Sign \$2694 Grant Date May 11, 2006

(or other identifier)

Term Dates

From 4 10 06

To: + 10 40

Approved: About 1 Kalls

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9-16. Name of Contact Representative

Name: Pantelis Michalopoulos

Phone Number: 202-429-6494

Company: Steptoe & Johnson LLP

Fax Number: 202-429-3902

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E-Mail: pmichalo@steptoe.com

City:

Washington

State: DC

Country:

Zipcode:

20036-1795

Attention:

Relationship:

Legal Counsel

CLASSIFICATION OF FILING

al. Earth Station

a2. Space Station

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

O (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

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

 17c. Is a fee submitted with this applie If Yes, complete and attach FCC For Governmental Entity Noncom 	m 159. If No, indicate reason for fee exemption	on (see 47 C.F.R.Section 1.1114).
•		25 and as such no fee is required. See DA 05-3225 at
17d.		
Fee Classification BFY - Space Station	n Modification(Geostationary)	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pendir modification please enter only the file numb	ng application enter both fields, if this filing is a per:
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
		SATMOD2003030300027

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	le 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) DBS	
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
O Connected to a Public Switched Network Not connected to a	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: 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.	
o a. Fixed Earth Station	
o b. Temporary-Fixed Earth Station	
o c. 12/14 GHz VSAT Network	
O d. Mobile Earth Station	
e. Geostationary Space Station	
o f. Non-Geostationary Space Station	
O 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 of Communication)	
j — authorization to change Points of Communication (satellites & Doubles)	
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 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.		Yes Attac	_			
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	rou	te 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	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	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	•	No	0	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?	O Yes ⊗ No 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.	Att. A – Appendix 1
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.	
	Att. A – Appendix 2
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	. o Yes O No
construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	Response 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	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.	Response to Q	.40

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, v 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, please go to the end of the form to view it in its entirety.)	on does not a	ppear in this
See Narrative.		
Narrative App.		

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.

45. Name of Person Signing David K. Moskowitz	46. Title of Person Sign Executive Vice Presider	
Other (please specify)		
Governmental Entity		
Corporation		
Partnership		
Unincorporated Association		
Individual		

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).

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