

S2232 SAT-MOD-20100720-00164 IB2010002285  
EchoStar Corporation  
EchoStar 6

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Approved by OMB  
3060-0678

File # SAT-MOD-20100720-00164  
Call Sign S2232 Grant Date 12/02/10  
(or other identifier)  
Term Dates  
From 08/11/10 To: 08/11/14  
Approved: Stephen J. Duall  
Stephen J. Duall  
Chief, Satellite Policy Branch



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:  
Minor Modification of Authority to Renew EchoStar 6 Authority and to Extend Authority to Operate at 61.65 W.L.


1-8. Legal Name of Applicant

Name:	EchoStar Corporation	Phone Number:	303-723-1000
DBA Name:		Fax Number:	
Street:	100 Inverness Terrace East	E-Mail:	
City:	Englewood	State:	CO
Country:	USA	Zipcode:	80112
Attention:	Alison Minea - (202) 293-1216		

**Attachment to Grant**  
**IBFS File No. SAT-MOD-20100720-00164**  
**Call Sign S2232**  
**December 2, 2010**

The application filed by EchoStar Corporation (EchoStar) to extend the license term for its Direct Broadcast Satellite service space station, EchoStar 6 (Call Sign S2232) is granted. Accordingly, the license term for EchoStar 6 is extended an additional four years, to August 11, 2014, in accordance with the application, this Attachment, Federal Communications Commission rules, and subject to the following conditions:

1. EchoStar will continue to operate the EchoStar 6 space station at the 61.65° W.L. orbital location subject to the conditions established in the prior authorization granted on July 2, 2010. *See* IBFS File No. SAT-A/O-20100203-00019.
2. EchoStar is afforded thirty days from the release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute acceptance of this authorization as conditioned.
3. This authority is granted pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately. 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.

 <b>GRANTED*</b> International Bureau *with conditions	<b>File #</b> SAT-MOD-20100720-00164
	<b>Call Sign</b> S2232 <b>Grant Date</b> 12/02/10 (or other identifier)
	<b>From</b> 08/11/10 <b>Term Dates To:</b> 08/11/14
	<b>Approved:</b> <i>Stephen J. Duall</i> Stephen J. Duall Chief, Satellite Policy Branch

9-16. Name of Contact Representative

<b>Name:</b>	Pantelis Michalopoulos	<b>Phone Number:</b>	202-429-6494
<b>Company:</b>	Stepioe & Johnson LLP	<b>Fax Number:</b>	
<b>Street:</b>	1330 Connecticut Ave., NW	<b>E-Mail:</b>	pmichalopoulos@stepioe.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036-
<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
- 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 application?
- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
  - Governmental Entity
  - Noncommercial educational licensee
  - Other (please explain): No fee required for minor modifications.

17d.

Fee Classification BFY – Space Station Modification (Geostationary)

<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: S2232</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:                      (b) File number: SATA/O2010020300019</p>
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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) <span style="margin-left: 100px;">Direct Broadcast Satellite</span></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 type="checkbox"/> Using U.S. licensed satellites</p> <p><input 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

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  No

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?

Yes  No

30. Is the applicant an alien or the representative of an alien?

Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes  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?

Yes  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?  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?  Yes  No  
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

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

Question 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.  Yes  No

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?

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 files this application to renew its authority to operate the EchoStar 6 satellite for an additional ten years until August 11, 2020, and to extend its authority to operate at 61.65 W.L. for a co-extensive period. Please 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.

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.

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 applicable response.)

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

45. Name of Person Signing

Alison Minea

46. Title of Person Signing

Corporate Counsel

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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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**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.**

Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554

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	)	
	)	
In the Matter of:	)	
	)	
EchoStar Corporation	)	
	)	Call Signs: S2232
Application for Renewal of Authority to	)	
Operate EchoStar 6	)	File No. SAT-MOD-20100720-_____
	)	
and	)	
	)	
Application to Extend Authority to Operate	)	
EchoStar 6 at 61.65° W.L.	)	
	)	

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**APPLICATION FOR RENEWAL AND EXTENSION OF AUTHORITY**

Pursuant to Sections 308 and 309 of the Communications Act of 1934, 47 U.S.C. §§ 308, 309, and Part 25 of the Commissions Rules, 47 C.F.R. Part 25, EchoStar Corporation (“EchoStar”) files this application<sup>1</sup> to renew its authority to operate its EchoStar 6 satellite until August 11, 2020, and to extend its authority to operate the satellite at 61.65° W.L.<sup>2</sup>

**I. Background**

On May 19, 1999, MCI Telecommunications Corporation was granted authority to assign its authorization to construct, launch and operate a DBS system using 28 channels at

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<sup>1</sup> This application qualifies as a minor modification because it proposes no change to orbital location or authorized frequencies, nor will it increase the potential for interference. Rather, EchoStar is requesting renewal of its authority to continue operating its current satellite and an extension of its previously granted authority to operate at 61.65° W.L.

<sup>2</sup> *Stamp Grant*, File No. SAT-A/O-20100203-00019 (granted July 2, 2010) (“61.65° W.L. Grant”).

110° W.L.<sup>3</sup> to EchoStar's predecessor, EchoStar 110 Corp.<sup>4</sup> EchoStar was initially authorized to operate its satellites EchoStar 5 and 6 at that location.<sup>5</sup> Subsequently, EchoStar received authority to launch and operate EchoStar 6 at the 119.05° W.L. orbital location.<sup>6</sup>

The satellite was launched in July 2000, and, since that time, it has played an integral role in EchoStar's service offering and has allowed EchoStar to maximize its licensed spectrum and leverage spectrum available from foreign DBS orbital locations. For example, from the end of 2008 until February 2010, EchoStar 6 was providing service into the U.S. as a Canadian-licensed satellite at 72.7° W.L. pending the launch of Telesat Canada's Nimiq 5 satellite.<sup>7</sup> Around the time Nimiq 5 was brought into service, EchoStar's EchoStar 3 satellite suffered a Traveling Wave Tube Amplifier anomaly threatening its ability to provide a sufficient level of service from the nominal 61.5° W.L. orbital location. EchoStar was able to quickly respond to this event by redeploying EchoStar 6 to 61.65° W.L. to provide supplemental service in the event EchoStar 3 suffered further technical problems.<sup>8</sup> Such redeployment was timely as

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<sup>3</sup> *MCI Telecommunications Corporation, Application for Authority to Construct, Launch and Operate a Direct Broadcast Satellite System at 110° W.L.*, Order, DA 96-2165, 12 FCC Rcd. 12538 (1996).

<sup>4</sup> *Application of MCI Telecommunications Corp., Assignor, and EchoStar 110 Corp., Assignee*, Order and Authorization, FCC 99-109, 16 FCC Rcd. 21608 (1999) ("MCI/EchoStar 110 Order").

<sup>5</sup> *Application of MCI Telecommunications Corp. for Modification of Direct Broadcast Satellite Authorization*, Memorandum Opinion and Order, DA 99-1125, 14 FCC Rcd. 9966 (1999); see also *MCI/EchoStar 110 Order*.

<sup>6</sup> *EchoStar Satellite Corporation Application for Authority to Make Minor Modifications to Direct Broadcast Satellite Authorizations, Launch and Operation Authority*, Memorandum Opinion and Order, DA 00-2382, 15 FCC Rcd. 23636 (2000).

<sup>7</sup> *Stamp Grant*, File No. SAT-STA-20080512-00103 (granted July 2, 2008).

<sup>8</sup> See *61.65° W.L. Grant*.



EchoStar 3 suffered an additional anomaly in early May, leading EchoStar to activate the EchoStar 6 communications payload.<sup>9</sup> As a result, EchoStar 6 is currently operating over certain channels licensed to EchoStar at the nominal 61.5° W.L. orbital location.

As noted in its application for authority to operate EchoStar 6 at that location, EchoStar plans to relocate the satellite to another orbital location, pursuant to separate Commission authorization, once its EchoStar 15 satellite becomes fully operational.<sup>10</sup>

## **II. The Requested Renewal and Extension of Authorization Is in the Public Interest**

While the original order granting MCI authority to operate at 110° W.L. does not identify a specific license expiration date, Section 25.121(d) of the Commission's rules in effect at the time EchoStar 6 was launched established a term of ten years for DBS satellites beginning at 3 am EST on the date that the licensee certified the satellite had been successfully placed into orbit. 47 C.F.R. §25.121(d) (1999). Additionally, the Bureau indicated in the *61.65° W.L. Grant* that the term of the EchoStar 6 satellite expires on August 11, 2010, ten years after the satellite was launched.<sup>11</sup> Therefore, EchoStar requests a renewal of its authority to operate EchoStar 6 for an additional ten years to August 11, 2020. Because the *61.65° W.L. Grant* will also expire at the end of the satellite's ten-year term, EchoStar requests that the grant be extended for a period co-extensive with the satellite term.

The requested renewal will serve the public interest by enabling EchoStar to continue providing high-quality DBS services to its customers from the EchoStar 6 satellite. It

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<sup>9</sup> See Letter to Marlene H. Dortch, Secretary, FCC, from Petra Vorwig, Counsel for EchoStar Corporation (May 3, 2010), *filed in* File Nos. SAT-STA-20100401-00062, SAT-STA-20100203-00020.

<sup>10</sup> EchoStar 15 was successfully launched on July 10, 2010.

<sup>11</sup> *61.65° W.L. Grant* at ¶ 4.

will also ensure EchoStar can maintain the flexibility it needs to redeploy its satellite fleet to provide international, HD and local-into-local programming to subscribers.

Additionally, EchoStar 6's continued operations at 61.65° W.L. will protect consumers from a potential loss of service resulting from the anomalies suffered by EchoStar 3. Because EchoStar 15 has not yet been brought into service, it is crucial that EchoStar retain the ability to provide service over EchoStar 6 at 61.65° W.L.

### **III. Conclusion**

For the foregoing reasons, EchoStar respectfully requests that the Commission grant this application to renew its authority to operate the EchoStar 6 satellite to August 11, 2020, and to extend its authority to operate the satellite at 61.65° W.L. for a co-extensive term.

Respectfully submitted,

**EchoStar Corporation**

Pantelis Michalopoulos  
Petra A. Vorwig  
Steptoe & Johnson LLP  
1330 Connecticut Avenue N.W.  
Washington, D.C. 20036  
(202) 429-3000  
*Counsel for EchoStar Corporation*

\_\_\_\_\_/s/  
Alison Minea  
Corporate Counsel  
**EchoStar Corporation**  
1110 Vermont Avenue NW, Suite 750  
Washington, DC 20005  
(202) 293-1216

July 20, 2010

STEPTOE & JOHNSON LLP

ATTORNEYS AT LAW

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Washington, DC 20036-1795  
Tel 202.429.3000  
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**REDACTED – FOR PUBLIC INSPECTION**

September 27, 2010

*Via HAND DELIVERY*

Stephen Duall  
Policy Branch, Satellite Division  
International Bureau  
Federal Communications Commission  
445 12th Street, SW  
Washington, DC 20554

**Re: Supplemental Information, Application for Renewal and Extension of Authority to Operate EchoStar 6 at 61.65° W.L., File No. SAT-MOD-20100720-00164, Call Sign S2232**

Dear Mr. Duall:

With respect to the above-referenced satellite renewal application, EchoStar Corporation (“EchoStar”), through counsel, provides the following information regarding the continuing capabilities of the EchoStar 6 satellite.

EchoStar 6 was launched in July 2000 with an original useful life of 12 years. Based on predicted remaining life and continued on-orbit spare operations at 61.5°, [REDACTED] Based on fuel measurement methods that include Pressure-Temperature-Volume (“PVT”), Bookkeeping, Propellant Gauging System (“PGS”) and Propellant Depletion Gauge (“PDG”) checks, [REDACTED]

If you have any other questions regarding the EchoStar 6 satellite and the above-referenced renewal application. Please address any questions to the undersigned.

**REDACTED –FOR PUBLIC INSPECTION**

Stephen Duall  
September 27, 2010  
Page 2

Respectfully submitted,

*/s/*

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Pantelis Michalopoulos  
Christopher Bjornson  
**STEPTOE & JOHNSON LLP**  
1330 Connecticut Avenue, NW  
Washington, D.C. 20036  
(202) 429-3000  
*Counsel for EchoStar Corporation*

cc: Andrea Kelly – International Bureau

STEPTOE & JOHNSON<sup>LLP</sup>

ATTORNEYS AT LAW

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steptoe.com

October 21, 2010

Stephen Duall  
Policy Branch, Satellite Division  
International Bureau  
Federal Communications Commission  
445 12th Street, SW  
Washington, D.C. 20554

**Re: Supplement to Application for Renewal and Extension of Authority to Operate  
EchoStar 6 at 61.65° W.L., File No. SAT-MOD-20100720-00164, Call Sign S2232**

Dear Mr. Duall:

With respect to the above-referenced renewal application for the EchoStar 6 satellite, EchoStar Corporation (“EchoStar”), through counsel, clarifies that it is applying to extend the authority for EchoStar 6 until August 2014, consistent with current estimated fuel consumption, our current business plans, and other considerations. If you have any other questions regarding the above-referenced renewal application, please contact the undersigned.

Respectfully submitted,

/s/

\_\_\_\_\_  
Pantelis Michalopoulos  
Christopher Bjornson  
L. Lisa Sandoval  
**STEPTOE & JOHNSON LLP**  
1330 Connecticut Avenue, NW  
Washington, D.C. 20036  
(202) 429-3000  
*Counsel for EchoStar Corporation*

cc: Andrea Kelly – International Bureau