

E960222 SES-STA-20101116-01434 IB2010003514  
Denali 20020, LLC

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

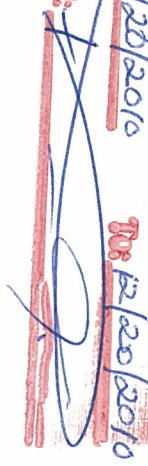
APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
E960222 STA to communicate with the AMC-18 (S2713)

1. Applicant

Name: Denali 20020, LLC Phone Number: 206-910-4614  
DBA Name: Fax Number:  
Street: 66 C USEI Drive E-Mail: jimveeder@aol.com  
City: Brewster State: WA  
Country: USA Zipcode: 98812  
Attention: Mr James Veeder

"30 days"



File# SES-STA-20101116-01434  
Call Sign E960222 Grant Date 11/18/2010  
(or other identifier) Term Dates  
From 11/20/2010 To 12/20/2010  
Approved: 

**2. Contact**

<b>Name:</b>	Chris Harlow	<b>Phone Number:</b>	509 689-6300
<b>Company:</b>	Denali 20020, LLC	<b>Fax Number:</b>	
<b>Street:</b>	66 C USEI Drive	<b>E-Mail:</b>	charlow@usei-teleport.com
<b>City:</b>	Brewster	<b>State:</b>	WA
<b>Country:</b>	USA	<b>Zipcode:</b>	98812
<b>Attention:</b>		<b>Relationship:</b>	Same

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. 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):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant

Change Station Location

Other

6. Requested Use Prior Date

11/20/2010

7. City Brewster

8. Latitude  
(dd mm ss.s h) 48 8 51.0 N

9. State	WA	10. Longitude (dd mm ss.s h)	119 41 29.0 W
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11. Please supply any need attachments.

Attachment 1: STA Request

Attachment 2:

Attachment 3:

12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Denial 20020, LLC requests special temporary authority for 30 days, commencing on November 20, 2010, for its Brewster, Washington earth station (Call Sign E9602222) to communicate with the AMC-18 (call sign S2713) C-band satellite during maneuvers outside its orbital location. This request is identical to the STA's filed by SES Americom under file numbers

13. 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

14. Name of Person Signing  
Chris Harlow

15. Title of Person Signing  
Station Manager

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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## **12. Description**

Denali 20020, LLC requests special temporary authority for 30 days, commencing on November 20, 2010, for its Brewster, Washington earth station (Call Sign E960222) to communicate with the AMC-18 (call sign S2713) C-band satellite during maneuvers outside its orbital location. This request is identical to the STA's filed by SES Americom under file numbers SES-STA-INTR2010-03503 for call sign WB81 and SES-STA-INTR2010-03504 for call sign E000313 to operate their earth stations under identical maneuvers on AMC-18.

**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

Denali 20020, LLC (Denali ) hereby respectfully requests special temporary authority for a period of thirty days, starting on November 20, 2010, for its earth station in Brewster, Washington (call sign E960222) to communicate with the AMC-18 C-band satellite during maneuvers that will take the satellite outside its assigned stationkeeping volume. AMC-18 is a Gibraltar-licensed spacecraft authorized to serve the U.S. from 104.95° W.L.<sup>1</sup> SES Satellites (Gibraltar) Limited (“SES Gibraltar”),<sup>2</sup> the licensee of AMC-18, has advised Denali that it plans to temporarily operate AMC-18 up to 0.2 degrees to the east and west of its assigned orbital location, *i.e.* between 104.75° and 105.15° W.L. The Denali earth station will be used to perform Telemetry, Tracking and Control (“TT&C”) during these maneuvers.<sup>3</sup> The satellite’s communications payload will also be operational while the satellite is outside its typical stationkeeping box.<sup>4</sup>

The AMC-18 maneuvers are intended to mitigate potential interference from the PanAmSat Licensee Corp. (“PanAmSat”) Galaxy 15 satellite (call sign S2387), which suffered an anomaly and which is drifting in an uncontrolled manner in the direction of AMC-18. Grant

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<sup>1</sup> See SES Satellites (Gibraltar) Limited, File No. SAT-PPL-20061006-00118, Call Sign S2713 (“AMC-18 Permitted List Filing”), grant-stamped Dec. 7, 2006 (adding AMC-18 to the Commission’s Permitted Space Station List for C-band operations from 104.95° W.L.).

<sup>2</sup> SES Gibraltar is a wholly-owned subsidiary of SES Americom.

<sup>3</sup> The TT&C will be performed in the frequencies for which AMC-18 is authorized: command at 6423.5 MHz and telemetry beacons at 3700.5 MHz and 4199.5 MHz. See AMC-18 Permitted List Filing, Technical Appendix at A-16.

<sup>4</sup> Separate STA requests are being filed by the licensees of the earth stations used to uplink communications to AMC-18, and SES WORLD SKIES is concurrently filing a waiver request seeking authority for the earth stations that receive signals from AMC-18 to continue to do so during the maneuvers described herein.

To the extent required, SES WORLD SKIES requests a waiver of the requirement to maintain a spacecraft authorized to serve the U.S. within +/- 0.05 degrees of its assigned station-keeping position. See 47 C.F.R. §§ 1.3 (waiver for good cause), 25.210(j) (east/west station-keeping).

of the requested authority and any necessary waiver will serve the public interest by allowing AMC-18 to continue to serve U.S. customers during the planned maneuvers, minimizing disruptions as Galaxy 15 approaches and passes through the 104.95° W.L. orbital location.

As the Commission is aware, because of an anomaly that occurred on or about April 5, the Galaxy 15 satellite began drifting eastward from its assigned orbital location of 133° W.L. Galaxy 15 is nearing AMC-18 and is expected to pass through AMC-18's station-keeping box with its payload active on or about November 24. Because Galaxy 15 operates on the same C-band frequencies as AMC-18, the potential for harmful interference into AMC-18 operations is significant as Galaxy 15 approaches. There will also be an increased risk of an in-orbit collision as Galaxy 15 passes through AMC-18's stationkeeping box.

SES Gibraltar is considering options to address these matters in conjunction with its customers and Intelsat. One such method is to ensure a minimum orbital separation between AMC-18 and the active Galaxy 15 as it approaches and passes through 104.95° W.L. Specifically, AMC-18 would first move to the east as Galaxy 15 approaches from the west, and then be maneuvered to the west of 104.95° W.L. as Galaxy 15 continues on its passage east. The maneuvers are expected to be completed within a week, after which AMC-18 will recommence operating with its standard stationkeeping tolerance.

This method has previously been used successfully to mitigate interference. For example, PanAmSat managed the transition of traffic from Galaxy 15 to Galaxy 12 by operating Galaxy 12 outside of the 133° W.L. box (with Commission authority) for a period of time to maintain a minimum separation between the satellites.<sup>5</sup> SES WORLD SKIES requested and

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<sup>5</sup> See File No. SAT-STA-20100408-00070, Call Sign S2422, grant-stamped Apr. 9, 2010.

received Commission authority to use the same approach to mitigate interference when Galaxy 15 passed through the assigned stationkeeping volume of AMC-11.<sup>6</sup>

Grant of the requested authority will not adversely affect other authorized operations. There are no C-band satellites assigned to operate within +/- 0.2 degrees of 104.95° W.L. The closest C-band spacecraft to AMC-18 are SES WORLD SKIES' AMC-1 at 103° W.L. and Telesat Canada's Anik F1 and F1R satellites at 107.3° W.L. SES WORLD SKIES does not expect that the proposed temporary operations of AMC-18 outside of its assigned station-keeping box will cause harmful interference to adjacent satellites. SES WORLD SKIES and SES Gibraltar will coordinate internally with respect to AMC-1. SES WORLD SKIES understands that SES Gibraltar has notified Telesat Canada of the planned AMC-18 maneuvers, and has reached an agreement with Telesat Canada concerning the maneuver parameters described herein.

During the proposed maneuvers, there will be a temporary overlap between the assigned station keeping volume of SES WORLD SKIES' AMC-15 satellite at 105.05° W.L. and the enlarged stationkeeping volume proposed for AMC-18. SES WORLD SKIES and SES Gibraltar will closely monitor the two satellites' positions during the AMC-18 maneuvers to ensure physical separation between the spacecraft. Apart from AMC-15, AMC-18 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping stationkeeping volume with another satellite.

For the foregoing reasons, Denali seeks temporary authority for a period of up to 30 days beginning on November 20, 2010, to communicate with AMC-18 while the spacecraft is

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<sup>6</sup> See File No. SAT-STA-20100430-00086, Call Sign S2433, grant-stamped May 12, 2010.



located between  $104.75^{\circ}$  and  $105.15^{\circ}$  W.L. At the end of this period, AMC-18 will be returned to its assigned orbital location of  $104.95^{\circ}$  W.L.