

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for Special Temporary Authority Using Castle Rock, Colorado Earth Station KL92

1. Applicant

<b>Name:</b>	Intelsat License LLC	<b>Phone Number:</b>	703-559-7848
<b>DBA Name:</b>		<b>Fax Number:</b>	703-559-8539
<b>Street:</b>	c/o Intelsat Corporation 7900 Tysons One Place	<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>City:</b>	McLean	<b>State:</b>	VA
<b>Country:</b>	USA	<b>Zipcode:</b>	22102 -5972
<b>Attention:</b>	Susan H. Crandall		

	File # <u>SES-STA-20151207-00916</u>
<b>GRANTED</b> International Bureau	Call Sign <u>KL92</u> Grant Date <u>1-6-16</u>
	(or other identifier)
	Term Dates From: <u>1-14-16</u> To: <u>2-23-16</u>
	Approved: <u>Susan H. Crandall</u>

Application: Intelsat License LLC  
Call Sign: KL92  
File No.: SES-STA-20151207-00916  
Special Temporary Authority (STA)



File # SES-STA-20151207-00916  
KL92  
Call Sign KL92 Grant Date 1-6-16  
(or other identifier)  
Term Dates  
From: 1-14-16 To: 2-13-16  
Approved: Paul E. Hays

Intelsat License LLC is granted a STA, under the following conditions, for 30 days, beginning January 14, 2016, to operate its Ku-band earth station, Call Sign KL92, in Castle Rock, Colorado, to provide launch and early orbit phase ("LEOP") services for the SES-9 satellite at permanent orbital location 108.2° E.L., licensed by Gibraltar. The in-orbit testing location will be 113.5° E.L. The launch is expected to be on January 14, 2016.

1. Uplink (Earth-to-space) frequencies will be on 13753.00 MHz, 13998.00 MHz and 14496.00 MHz (RHCP) within the coordinated emission and power limits.
2. Downlink (space-to-Earth) frequencies will be on 11199.50 MHz, 11702.50 MHz and 12246.50 MHz (RHCP).
3. All operators of satellites will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs, Currently the 24x7 contact information for the Intelsat 30 mission is as follows: Ph.: (703) 559-7701 - East Coast Operations Center (primary); (310) 525-5591 - West Coast Operations Center (back-up). Request to speak with Harry Burnham or Kevin Bell.
4. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's KL92 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
5. In the event of any harmful interference under this grant of STA, Intelsat License LLC KL92 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat License LLC's risk.
8. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.

<b>2. Contact</b>	
<b>Name:</b>	Cynthia J. Grady
<b>Company:</b>	Intelsat Corporation
<b>Street:</b>	7900 Tysons One Place
<b>City:</b>	McLean
<b>Country:</b>	USA
<b>Attention:</b>	
<b>Phone Number:</b>	703-559-6949
<b>Fax Number:</b>	703-559-8539
<b>E-Mail:</b>	cynthia.grady@intelsat.com
<b>State:</b>	VA
<b>Zipcode:</b>	22102 -5972
<b>Relationship:</b>	Legal Counsel
(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?	
<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).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date	
7. CityCastle Rock	
8. Latitude (dd mm ss.s h) 39 16 38.0 N	

9. State	CO
10. Longitude (dd mm ss.s h)	104 48 25.0 W
11. Please supply any need attachments. Attachment 1: STA Request	Attachment 2: Exhibits A-C 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.)	<div style="border: 1px solid black; padding: 5px;"> <p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing January 14, 2016, to use its Castle Rock, Colorado Ku-band earth station, call sign KL92, to provide launch and early orbit phase services for the SES-9 satellite. SES-9 is expected to be launched no earlier than January 14, 2016. Intelsat expects the LEOP</p> </div>
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.	<p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>
14. Name of Person Signing	Cynthia J. Grady
15. Title of Person Signing	Regulatory Counsel, Intelsat Corporation
<p style="text-align: center;"><b>WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT</b> (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).</p>	

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## **12. Description**

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing January 14, 2016, to use its Castle Rock, Colorado Ku-band earth station, call sign KL92, to provide launch and early orbit phase services for the SES-9 satellite. SES-9 is expected to be launched no earlier than January 14, 2016. Intelsat expects the LEOP period to last between fourteen and eighty days.

December 7, 2015

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12th Street, S.W.  
Washington, D.C. 20554

Re: Request for Special Temporary Authority  
Castle Rock, Colorado Earth Station KL92

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, commencing January 14, 2016, to use its Castle Rock, Colorado Ku-band earth station—call sign KL92—to provide launch and early orbit phase (“LEOP”) services for the SES-9 satellite. SES-9 is expected to be launched no earlier than January 14, 2016.<sup>2</sup> Intelsat expects the LEOP period to last between fourteen and eighty days.<sup>3</sup>

The SES-9 LEOP operations will be performed in the following frequency bands: 13753.0 MHz, 13998.0 MHz, and 14496.0 MHz in the uplink (RHCP), and 11199.5 MHz, 11702.5 MHz, and 12246.5 MHz in the downlink (RHCP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>4</sup> All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the SES-9 LEOP mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)  
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

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<sup>1</sup> Intelsat has filed its STA request, an FCC Form 159, a \$195.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> The permanent orbital location for SES-9, which Intelsat understands is licensed by Gibraltar, will be at 108.4° E.L. The in-orbit testing location will be 113.5° E.L.

<sup>3</sup> Intelsat is seeking 30 days to accommodate the LEOP window of the medium-lift launch, which will vary based on the performance of the rocket.

<sup>4</sup> Boeing, the manager of the SES-9 LEOP mission, will handle the coordination.

Ms. Marlene H. Dortch  
December 7, 2015  
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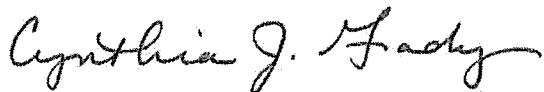
In further support of this request, Intelsat hereby attaches Exhibits A, B, and C, which contain a 13.75 - 14.0 GHz analysis and waiver requests.

Finally, Intelsat clarifies that during the SES-9 LEOP mission, Boeing will serve as the mission manager. Boeing will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Boeing. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the SES-9 satellite. This, in turn, will help will provide additional capacity at the 108.2° E.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,



Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Paul Blais



**INTELSAT LICENSE LLC**  
**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**  
**EARTH STATION CALL SIGN KL92**  
**CASTLE ROCK, COLORADO**

**EXHIBITS A – C**

DECEMBER 7, 2015

## Exhibit A

### Castle Rock, Colorado NEC 12.5 Meter Earth Station Call Sign: KL92

#### COMPLIANCE WITH FCC REPORT & ORDER (FCC 96-377) FOR THE 13.75 GHz - 14.0 GHz BAND ANALYSIS AND CALCULATIONS

##### 1. Background

This Exhibit is presented to demonstrate the extent to which the Intelsat License LLC satellite earth station in Castle Rock, Colorado is in compliance with FCC REPORT & ORDER 96-377. The potential interference from the earth station to US Navy shipboard radiolocation operations (RADAR) and the NASA space research activities in the 13.75 - 14.0 GHz Band is addressed in this exhibit. The parameters for the earth station are:

**Table 1. Earth Station Characteristics**

- Coordinates (NAD83): 39° 16' 38.0" N, 104° 48' 25.0" W
- Satellite Location for Earth Station: SES\_9 @ 33W.L. to 177 W.L.
- Frequency Band: 13.75-14.5 GHz for uplink
- Polarizations: Linear and Circular
- Emissions: 1M30FXD
- Modulation: FM/PCM/PSK
- Maximum Aggregate Uplink EIRP: 92.0 dBW for all Carriers
- Transmit Antenna Characteristics
  - Antenna Size: 12.5 meter in Diameter
  - Antenna Type/Model: NEC
  - Gain: 64.0 dBi
- RF power into Antenna Flange: 28.0 dBW  
or 2.9 dBW/4 kHz (Maximum)
- Minimum Elevation Angle:  
Castle Rock, Co. 5.3° @ 101.8° Az. at 33.0 W  
5.0° @ 258.5° Az. at 177.0 W.
- Side Lobe Antenna Gain: 32 - 25\*log( $\theta$ )

Because the above uplink spectrum is shared with the Federal Government, coordination in this band requires resolution data pertaining to potential interference between the earth stations and both Navy Department and NASA systems. Potential interference from the earth station could impact with the Navy and/or NASA systems in two areas. These areas are noted in FCC Report and Order 96-377 dated September 1996, and consist of (1) Radiolocation and radio navigation, (2) Data Relay Satellites.

Summary of Coordination Issues:

- 1) Potential Impact to Government Radiolocation (Shipboard Radar)
- 2) Potential Impact to NASA Data Relay Satellite Systems (TDRSS)

**2. Potential Impact to Government Radiolocation (Shipboard Radar)**

Radiolocation operations (RADAR) may occur anywhere in the 13.4 - 14 GHz frequency band aboard ocean going United States Navy ships. The Federal Communication Commission (FCC) order 96-377 allocates the top 250 MHz of this 600 MHz band to the Fixed Satellite Service (FSS) on a co-primary basis with the radiolocation operations and provides for an interference protection level of  $-167 \text{ dBW/m}^2/4 \text{ kHz}$ .

The closest distance to the shoreline from the Castle Rock earth station is approximately 1350 km Southwest toward the Pacific Ocean.

Therefore, there should be no interference to the US Navy RADAR from the Castle Rock Colorado due to distance and terrain blockage between the site and the shore

**3. Potential Impact to NASA's Data Relay Satellite System (TDRSS)**

The geographic location of the Intelsat License LLC earth station in Castle Rock, Colorado is outside the 390 km radius coordination contour surrounding NASA's White Sands, New Mexico ground station complex. Therefore, the TDRSS space-to-earth link will not be impacted by the Intelsat License LLC earth station in Castle Rock, Colorado.

The TDRSS space-to-space link in the 13.772 to 13.778 GHz band is assumed to be protected if an earth station produces an EIRP less than 71 dBW/6 MHz in this band. The 12.5 meter earth station antenna will have an EIRP greater than 71 dBW/6 MHz in this band. The total EIRP for all carriers is 92.0 dBW, and the equivalent EIRP per 6 MHz segment remains at 92.0 dBW/6 MHz. Therefore, there will be interference to the TDRSS space-to-space link (Table 1).

In order to meet the 71 dBW/6 MHz interference criteria, the earth station would have to be limited to an RF power density 21.1 dB lower than the maximum of 4.7 dBW/4kHz or  $-16.4 \text{ dBW/4kHz}$  or an EIRP of 70.9 dBW. If this operational condition cannot be met, then the Castle Rock, Colorado earth station may not be tuned to operate at the frequencies in the 13.772 to 13.778 GHz Band. The Earth Station will not transmit in the band 13.772 to 13.778 MHz and will therefore not cause interference to the NASA TDRSS space-to-space link.

#### **4. Coordination Issue Result Summary and Conclusions**

The results of the analysis and calculations performed in this exhibit indicate that compatible operation between the earth station at the Castle Rock facility and the US Navy and NASA systems space-to-earth link are possible. These analyses have been based on the assumption of 1.3 MHz bandwidth carriers. Operations in NASA systems space-to-space link (13772.0 to 13778.0 MHz) will not be permitted.

**Table 1**

#### **Excluded Frequency Range for Intelsat License LLC Earth Station**

<b>System</b>	<b>Frequency Restriction</b>
TDRSS	13.770-13.780 GHz (see Note 1)

**Note 1:** In order to meet the less than 71 dBW/6 MHz interference criteria, the earth station would have to be limited to a maximum total EIRP of 70.9 dBW.

No interference to US Navy RADAR operations from the Castle Rock, Colorado site earth station will occur.

## Exhibit B

### PETITION FOR WAIVER OF SECTIONS 25.137 AND 25.114

Pursuant to Section 25.137 of the Federal Communications Commission's ("Commission" or "FCC") rules, earth station applicants "requesting authority to operate with a non-U.S. licensed space station *to serve the United States*" must demonstrate that effective competitive opportunities exist and must provide the same technical information required by Section 25.114 for U.S.-licensed space stations.<sup>1</sup> Intelsat License LLC ("Intelsat") herein seeks authority to provide launch and early orbit phase ("LEOP") services—not commercial services—to the United States, and thus believes that Section 25.137 does not apply.<sup>2</sup>

To the extent the Commission determines, however, that Intelsat's request for authority to provide LEOP services on a special temporary basis is a request to serve the United States with a non U.S.-licensed satellite, Intelsat respectfully requests a waiver of Sections 25.137 and 25.114 of the Commission's rules.<sup>3</sup> The Commission may grant a waiver for good cause shown.<sup>4</sup> The Commission typically grants a waiver where the particular facts make strict compliance inconsistent with the public interest.<sup>5</sup> In granting a waiver, the Commission may take into account considerations of hardship, equity, or more effective implementation of overall policy on an individual basis.<sup>6</sup> Waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest.

In this case, good cause exists for a waiver of both Section 25.137 and Section 25.114. With respect to Section 25.114, Intelsat seeks authority only to provide LEOP services for the SES-9 satellite. The information sought by Section 25.114 is not relevant to LEOP services. Moreover, Intelsat does not have—and would not easily be able to obtain—such information because Intelsat is not the operator of the SES-9 satellite, nor is Intelsat in contractual privity with that operator. Rather, an affiliate of Intelsat has a contract with Boeing, the manufacturer of the SES-9 satellite, to conduct LEOP services for the satellite.

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<sup>1</sup> 47 C.F.R. § 25.137 (emphasis added).

<sup>2</sup> See *EchoStar Satellite Operating Company Application for Special Temporary Authority Related to Moving the EchoStar 6 Satellite from the 77° W.L. Orbital Location to the 96.2° W.L. Orbital Location, and to Operate at the 96.2° W.L. Orbital Location*, DA 13-593, File No. SAT-STA-20130220-00023 (released Apr. 1, 2013) (noting that operating TT&C earth stations in the United States with a foreign-licensed satellite does not constitute "DBS service").

<sup>3</sup> 47 C.F.R. §§ 25.137 and 25.114.

<sup>4</sup> 47 C.F.R. §1.3.

<sup>5</sup> *N.E. Cellular Tel. Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("*Northeast Cellular*").

<sup>6</sup> *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969); *Northeast Cellular*, 897 F.2d at 1166.

The information that Intelsat is not including is not required to determine potential harmful interference. The Schedule S information for this satellite would pertain to the operation of the SES-9 satellite at its final orbital location. However, the present application for LEOP services involves communications *prior* to the satellite attaining its final location in the geostationary orbit. In other words, during the LEOP mission, the earth station will not be communicating with a satellite located in the geostationary orbit. Rather, it will be transmitting to a satellite traveling on its “transfer orbit” or “LEOP path,” which starts immediately following its separation from a launch vehicle, and ends when the satellite reaches its geostationary orbital location. Moreover, as with any STA, Intelsat will perform the LEOP services on a non-interference basis.

Because it is not relevant to the service for which Intelsat seeks authorization, and because obtaining the information would be a hardship, Intelsat seeks a waiver of all the information required by Section 25.114. Intelsat has provided in this STA request the required technical information that is relevant to the LEOP services for which Intelsat seeks authorization.

Good cause also exists to waive Section 25.137. Section 25.137 is designed to ensure that “U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services” in other countries. Here, there is no service being provided by the satellite; it is simply being placed in its orbital location after separating from the launch vehicle. Thus, the purpose of the information required by Section 25.137 is not implicated here. For example, Section 25.137(d) requires earth station applicants requesting authority to operate with a non-U.S.-licensed space station that is not in orbit and operating to post a bond.<sup>7</sup> The underlying purpose in having to post a bond—*i.e.*, to prevent warehousing of orbital locations by operators seeking to serve the United States—would not be served by requiring Intelsat to post a bond in order to provide approximately ten days of LEOP services to the SES-9 satellite.

It is Intelsat’s understanding that SES-9 is licensed by Gibraltar, which is an Overseas Territory of the United Kingdom, a WTO-member country. Thus, the purposes of Section 25.137—to ensure that U.S. satellite operators enjoy “effective competitive opportunities” to serve foreign markets and to prevent warehousing of orbital locations serving the United States—will not be undermined by grant of this waiver request.

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<sup>7</sup> See 47 C.F.R. §25.137(d)(4).

## Exhibit C

### REQUEST FOR WAIVER OF FOOTNOTE 2 OF SECTION 25.202(a)(1) AND FOOTNOTE NG 104 OF THE U.S. TABLE OF ALLOCATIONS

To the extent necessary, Intelsat requests waiver of 1) Section 25.202(a)(1), which restricts the use of the 12200-12700 MHz band to the Fixed and Broadcast Satellite services, and 2) Section 25.202(a)(1), footnote 2 and footnote NG104 of the U.S. Table of Allocations,<sup>1</sup> which restrict the use of the 10700-11700 MHz band by the non-federal fixed satellite service in the geostationary orbit to international systems only.<sup>2</sup>

Good cause exists to waive the allocation of the 12200-12700 MHz frequency band to the Fixed and Broadcast Satellite services to allow use of the telemetry link for the SES-9 satellite. The power level of the SES-9 telemetry signal will be very low in comparison to the emissions from a BSS satellite and should not cause harmful interference. Intelsat is coordinating with potentially affected BSS operators to ensure their protection.

Good cause also exists to waive the international systems only requirements for the 10700-11700 MHz. The purposes of Section 25.202(a)(1) and NG104 and footnote 2 of Section 25.202(a)(1) are to harmonize the use of spectrum and thereby reduce harmful interference to allocated services and to limit the number of fixed satellite service earth stations with which the co-primary fixed service would need to coordinate.<sup>3</sup> Intelsat will provide launch and early orbit phase (“LEOP”) service in these frequency bands only on a non-interference/non-protected basis and, therefore, will not need to coordinate with fixed service stations or broadcast satellite.

Moreover, grant of this waiver is consistent with the Commission’s precedent. A waiver of the U.S. Table of Allocations is generally granted “when there is little potential interference into any service authorized under the Table of Frequency allocations and when the nonconforming operator accepts any interference from authorized services.”<sup>4</sup> The International Bureau has found that waiving NG104 and footnote 2 of Section 25.202(a)(1) would not undermine the purpose of the rules if the party seeking a waiver: (2) will be utilizing earth stations that are receive-only in these bands and thus “not capable of causing interference into FS stations” operating in the bands and (2) agrees “to accept any level of interference from FS stations” into

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<sup>1</sup> 47 C.F.R. §§ 25.202(a)(1).

<sup>2</sup> See 47 C.F.R. §§ 25.202(a)(1), fn. 2 and 2.106, fn. NG 104.

<sup>3</sup> See *Satellite Services*, 26 RR 2d at 1263-65 (1973). See also *EchoStar KuX Corporation Application for Authority to Construct, Launch and Operate a Geostationary Satellite Using the Extended Ku-band Frequencies in the Fixed-Satellite Service at the 83° W.L. Orbital Location*, Order and Authorization, DA 04-3162, 9 (Int’l Bur., Sept. 30, 2004) (“EchoStar 83° Waiver”).

<sup>4</sup> See *The Boeing Company*, Order and Authorization, 16 FCC Rcd 22645, 22651 (Int’l Bur. & OET 2001); *Application of Fugro-Chance, Inc. for Blanket Authority to Construct and Operate a Private Network of Receive-Only Mobile Earth Stations*, Order and Authorization, 10 FCC Rcd 2860 (Int’l Bur. 1995) (authorizing MSS in the C-band); see also *Application of Motorola Satellite Communications, Inc. for Modification of License*, Order and Authorization, 11 FCC Rcd 13952-13956 (Int’l Bur. 1996) (authorizing service to fixed terminals in bands allocated the mobile satellite service).

its receiving earth stations.”<sup>5</sup> Intelsat satisfies these criteria. The earth stations operating in the 10700-11700 MHz band purposes of the SES-9 LEOP mission will not transmit in these bands and Intelsat agrees to accept any level of interference into these earth stations from fixed service stations in the band. Accordingly, the earth stations operating in these bands pose no interference concerns with respect to co-frequency fixed service stations.

Finally, Intelsat notes that it expects to operate with the SES-9 satellite using its U.S. earth stations only for a period of approximately ten days. Given these particular facts, the waiver sought herein is plainly appropriate.

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<sup>5</sup> EchoStar 83° Waiver, ¶ 13.