

Approved by OMB  
3060-0678

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File Number: SAT-MOD-20050422-00089

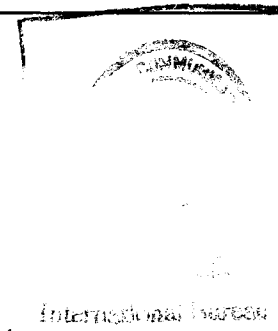
FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
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APPLICANT INFORMATION

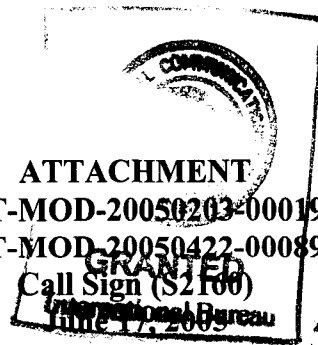
Enter a description of this application to identify it on the main menu:  
Intelsat's Request for Waiver of Rule for IA-8 Satellite

1-8. Legal Name of Applicant

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<b>Country:</b>	USA	<b>Zipcode:</b>	20008 -3006
<b>Attention:</b>	Susan H Crandall		



File# SAT-MOD-20050422-00089  
S2160 June 17, 2005  
See license conditions  
15415. after launch  
Approved: [Signature]  
w/conditions. Policy  
Branch Chief



File # SAT-MOD-20050422- 60639  
Call Sign S2160 Date June 17, 2005  
(or other identifier)  
Term Dates 15 yrs from launch  
From see license To:  
Approved: [Signature]  
w/conditions

Intelsat North America LLC's ("Intelsat") requests, File Nos. SAT-MOD-20050203-00019<sup>1</sup> and SAT-MOD-20050422-00089,<sup>2</sup> (Call Sign, S2160) for a six-month extension of the launch milestone date for the C- and Ku-band INTELSAT AMERICAS ("IA-8")<sup>3</sup> satellite to be operated at the 89° W.L. orbital location and to waive the cross-polarization isolation requirements contained in Section 25.210(i) of the Commission's rules ARE GRANTED. Accordingly, we extend the launch milestone date for the IA-8 satellite from March 30, 2005 to September 30, 2005 and waive Section 25.210(i) of the Commission's rules to the extent provided here, in accordance with the terms, conditions, and technical specifications set forth in its application, this Attachment and the Federal Communications Commission's Rules.

Policy Branch  
Chief

1. Failure to meet the extended launch milestone date of September 30, 2005 shall render the IA-8 authorization null and void.
2. Section 25.210(i) of the Commission's rules require the ratio of the on-axis co-polar gain to the cross-polar gain of the antenna in the assigned frequency band be at least 30 dB within its primary coverage area. Intelsat indicates that during testing antenna performance measurements revealed that the IA-8 satellite did not satisfy the cross-polarization isolation requirement for 100% of the primary coverage. Specifically, the minimum measured CONUS cross-polarization isolation for Ku-band is 29.3 dB. It occurs at the southern edge of CONUS at 11.95 GHz in the vertical polarization. In addition, the measured C-band antenna performance shows non-compliance with the 30 dB standard within areas constituting no more than 5% of the composite coverage area. The worst case occurs over Hawaii, with isolation of 22.3 dB in the vertical polarization at 6175 MHz. With respect to CONUS coverage, the minimum uplink isolation is 26.2 dB in the vertical polarization at 6425 MHz. For the downlink performance,

<sup>1</sup> The application was placed on Public Notice on February 18, 2005. See *Public Notice*, Policy Branch Information, Report No. SAT-00273 (February 18, 2005). No comments were filed. As of the date of this action, the spacecraft is currently at sea being prepared for the scheduled launch date of June 23, 2005. See June 13, 2005 Press Release found at [http://www.boeing.com/news/releases/2005/q2/nr\\_050613s.html](http://www.boeing.com/news/releases/2005/q2/nr_050613s.html)

<sup>2</sup> The application was placed on Public Notice on April 29, 2005. *Public Notice*, Policy Branch Information, Report No. SAT-00288 (April 29, 2005). No comments were filed.

<sup>3</sup> The IA-8 satellite has previously been granted an extension of certain milestones. See Loral SpaceCom Corporation, Debtor-in-Possession, Application for Modification of Fixed Satellite Service Space Station Authorization TelStar-8, Request for Extension of Milestones and Waiver or Petition for Reconsideration, *Memorandum Opinion and Order*, 18 FCC Rcd 21851 (Int'l Bur. 2003); See *Policy Branch Information, Action Taken Public Notice*, File No. SAT-MOD-20040727-00148, Report No. 00247, (Int'l Bur. Oct. 1, 2004).

which is the factor that could affect adjacent satellite networks, the minimum isolation is 27.5 dB in the horizontal polarization at 3950 MHz for CONUS coverage. We find that grant of a waiver of Section 25.210(i) is justified because the IA-8 satellite's failure to meet the cross-polarization isolation standard in Section 25.210(i) will not result in significant increase in interference, except to a limited extent to the IA-8 satellite. Grant of this waiver is consistent with our decision in prior Commission orders.<sup>4</sup>

3. The license term for the IA-8 satellite, Call Sign S2160, is fifteen years and will begin to run on the date that Intelsat certifies to the Commission that the satellite has been successfully placed into orbit and its operation fully conforms to the terms and conditions of its authorization.

4. The conditions contained in the authorization to launch and operate IA-8 at the 89° W.L. orbital location otherwise remain unchanged. This action is without prejudice to any action on Intelsat's pending applications with respect to the 77° W.L. orbital location, IBFS File Nos. SAT-RPL-20041015-00201 and SAT-PDR-20041228-00231, and has no effect on any prior action relating to the 77° W.L. orbital location.

5. This action is used 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.

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<sup>4</sup> See e.g. New Skies Satellites, N.V., Petition for Declaratory Ruling, *Order*, 17 FCC Rcd 10369, 10377 (Sat. Div. 2002); and DIRECTV Group, Inc., Application for Modification of Authority to Launch and Operate the SPACEWAY-2 Ka-band Satellite System, IBFS File No. SAT-MOD-20040614-00113, DA No: 04-3529, (grant stamp with conditions) (November 4, 2004).