

S2134 SAT-STA-20111017-00205  
SES Americom, Inc.  
AMC-2

File # SAT-STA-2011017-00205  
Call Sign S2134 Grant Date 10/20/11  
(or other identifier)  
Term Dates Period of  
From 10/20/11 To: 60 days

Approved by OMB  
3060-0678

Approved: *Stephen J. Duall*  
Stephen J. Duall  
Chief, Satellite Policy Branch

**GRANTED**  
International Bureau  
\*with conditions

Date & Time Filed: Oct 17 2011 9:01:18:330PM  
File Number: SAT-STA-20111017-00205  
Callsign:

FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:  
AMC-2 (S2134) STA Request for Drift to 5 E.L. Pending Mod

1. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7137
DBA Name:		Fax Number:	202-478-7101
Street:	1129 20th Street NW Suite 1000	E-Mail:	daniel.mah@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036
Attention:	Mr. Daniel C.H. Mah		-

**Attachment to Grant**  
**IBFS File No. SAT-STA-20111017-00205**  
**Call Sign S2134**

The application of SES Americom Inc. (SES), IBFS File No. SAT-STA-20111017-00205 for special temporary authority to conduct Telemetry, Tracking, and Telecommand (TT&C) operations necessary to drift the AMC-2 space station (Call Sign S2134) from the 78.95° W.L. orbital location to the 4.98° E.L. orbital location is GRANTED. Accordingly, SES is authorized for 60 days commencing October 21, 2011, to conduct TT&C operations using the following center frequencies and polarizations: 6423.5 MHz with horizontal polarization in the Earth-to-space direction; 3700.5 MHz with horizontal polarization, 4199.5 MHz with vertical polarization and 12198 MHz with horizontal polarization in the space-to-Earth direction. These operations are authorized in accordance with the technical specifications set forth in SES's application, Federal Communications Commission (Commission) rules, and the following conditions:

1. All operations during the drift to the 4.98° E.L. orbital location shall be on unprotected and non-harmful interference basis, *i.e.*, SES shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station.
2. In the event of any harmful interference during AMC-2's drift to the 4.98° E.L. orbital location or operation at that location, SES shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. During the drift to the 4.98° E.L. orbital location, SES may not operate AMC-2's communications payload.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at SES's own risk.
5. SES shall notify the Chief, Satellite Division, in writing, of the date that the AMC-2 space station departs the 78.95° W.L. orbital location within three business days of the departure date.
6. Grant of this authorization does not constitute a finding pursuant to Section 25.161(c) of the Commission's rules.
7. Grant of this authorization is without prejudice to any decision regarding SES's ability to file an application for authorization to operate a replacement space station in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 11.7-12.2 GHz (space-to-Earth), and 14.00-14.50 GHz (Earth-to-space) frequency band frequency bands at the 78.95° W.L. orbital location. Grant of this authorization does not constitute an announcement that these frequencies are available for reassignment.
8. SES 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.
9. This action is issued pursuant to the 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.



\*with conditions

File # SAT-STA-20111017-00205

Call Sign S2134 Grant Date 10/20/11

(or other identifier)

Term Dates period of  
From 10/21/11 To: 60 days

Approved: \_\_\_\_\_

*Stephen J. Duall*  
Stephen J. Duall  
Chief, Satellite Policy Branch

<b>2. Contact</b>	
<b>Name:</b> Karis A. Hastings	<b>Phone Number:</b> (202) 599-0975
<b>Company:</b> SatCom Law LLC	<b>Fax Number:</b>
<b>Street:</b> 1317 F Street, NW, Suite 400	<b>E-Mail:</b> karis@satcomlaw.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20004 -
<b>Attention:</b>	<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 CRY - Space Station (Geostationary)	
5. Type Request	
<input checked="" type="radio"/> Change Station Location	<input type="radio"/> Extend Expiration Date <input type="radio"/> Other
7. Requested Extended Expiration Date	
6. Temporary Orbit Location 4.98 E.L.	

8. 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.)

SES Americom, Inc. respectfully requests special temporary authority for 60 days to relocate AMC-2 (Call Sign S2134) to 4.98 degrees E.L. pending submission of and action on a modification application to reassign AMC-2 to 4.98 degrees E.L.

9. 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

10. Name of Person Signing  
Daniel C. H. Mah

11. Title of Person Signing  
Regulatory Counsel

12. Please supply any need attachments.

Attachment 1: STA Request

Attachment 2:

Attachment 3:

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**

In the Matter of Application of	)	
	)	
SES AMERICOM, INC.	)	File No. SAT-STA-_____
	)	Call Sign S2134
For Special Temporary Authority to	)	
Relocate AMC-2 to 4.98° E.L.	)	

**APPLICATION**

SES Americom, Inc. (“SES Americom,” doing business as “SES”) hereby respectfully requests special temporary authority (“STA”) for a period of sixty days beginning on or about October 21 to relocate the AMC-2 C/Ku-band hybrid satellite from 78.95° W.L. to 4.98° E.L. Specifically, SES seeks authority to perform Telemetry, Tracking and Control (“TT&C”) in order to relocate AMC-2 from 78.95° W.L. to 4.98° E.L. SES will not activate the communications payloads of AMC-2 during the drift. Grant of the requested authority will serve the public interest by allowing SES to redeploy AMC-2 to a location where it can introduce new service in the C-band and additional Ku-band frequencies ahead of the launch of the SES-5 satellite,<sup>1</sup> which has been delayed.

SES has separately filed today a request for STA to operate AMC-2 upon arrival at 4.98° E.L.<sup>2</sup> In addition, SES is preparing to file a modification application to reassign AMC-2 to 4.98° E.L. for operations in accordance with the International Telecommunication Union

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<sup>1</sup> The SES-5 satellite is also known as ASTRA-4B and was originally named SIRIUS 5. See Press Release, *SES Orders New SIRIUS 5 Satellite from Loral* (Oct. 10, 2008), <http://www.ses-astra.com/business/en/news-events/press-archive/2008/08-10-09/index.php>.

<sup>2</sup> See File No. SAT-STA-20111017-00204 (the “Operations STA”).

("ITU") filings of the Swedish Administration.<sup>3</sup> Pending submission of and action on the modification and action on the Operations STA, SES seeks authority to allow it to commence relocation of AMC-2 to 4.98° E.L. If authorized to redeploy AMC-2, SES will do so at its own risk and understands that such authority would be without prejudice to any action the Commission ultimately may make regarding the application to reassign AMC-2 to 4.98° E.L. As discussed herein, grant of the requested authority is consistent with Commission precedent<sup>4</sup> and will serve the public interest.

AMC-2 is a hybrid C/Ku-band satellite that was launched in 1997 and currently operates pursuant to FCC authority at the nominal 79° W.L. location,<sup>5</sup> where it is collocated with AMC-5, a Ku-band only satellite.<sup>6</sup> SES Americom's commonly-owned affiliate SES ASTRA AB<sup>7</sup> ("ASTRA AB") operates satellites at the nominal 5° E.L. position pursuant to Swedish authority<sup>8</sup> and had planned to augment existing services with the new SES-5 satellite at the end

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<sup>3</sup> The modification will supersede the request filed earlier this year to transfer AMC-2 from U.S. licensing authority to Swedish licensing authority for operations at the nominal 5° E.L. orbital location, File No. SAT-T/C-20110527-00100. SES has withdrawn the AMC-2 transfer of control application and associated submissions. *See* WTH2011101790738380 (withdrawal of AMC-2 transfer of control application); WTH2011101791252966 (withdrawal of STA request for drift of AMC-2 to 4.98° E.L. pending action on transfer of control application).

<sup>4</sup> The Commission has routinely authorized operators to commence relocation of a satellite pending a request to reassign the satellite. *See, e.g., SES Americom, Inc.*, Call Sign S2135, File No. SAT-STA-20100525-00108 (grant-stamped July 12, 2010) (authorizing SES to drift AMC-4 from 101° W.L. to 67° W.L. pending action on the related modification application to reassign the satellite).

<sup>5</sup> *See* File Nos. SAT-MOD-20100324-00056 (grant-stamped June 21, 2010) & SAT-MOD-20101215-00261 (grant-stamped March 8, 2011).

<sup>6</sup> *See* File No. SAT-MOD-20100706-00154, call sign S2156 (grant-stamped Jan. 20, 2011). SES recently requested authority to relocate AMC-5 to 80.9° W.L. for operations pursuant to Argentine ITU filings. *See* File No. SAT-MOD-20110929-00192.

<sup>7</sup> SES ASTRA AB was formerly known as SES SIRIUS AB. *See* Press Release, *SES SIRIUS Becomes SES ASTRA* (Jun. 23, 2010), <http://www.ses-astra.com/business/en/news-events/news-latest/index.php?pressRelease=/pressReleases/pressReleaseList/10-06-22/index.php>.

<sup>8</sup> For example, ASTRA 4A is at the nominal 4.8° E.L. orbital location, and ASTRA 1E is at the nominal 5.0° E.L. orbital location. ASTRA 1E will be relocated prior to the arrival of

of 2011. Due to delays in manufacturing and launch manifests, however, the launch of SES-5 is likely to be delayed beyond its planned commencement of service date. The proposed relocation of AMC-2 to the nominal 5° E.L. orbital location will allow expansion of service from that orbital location pending the successful launch of SES-5. No customers of AMC-2 will be adversely affected, as they have been transferred to other satellites in anticipation of the planned relocation.

Grant of the requested authority to relocate AMC-2 will serve the public interest and is consistent with Commission precedent. The Commission has repeatedly observed that its policy is to allow “satellite operators to rearrange satellites in their fleet to reflect business and customer considerations where no public interest factors are adversely affected.”<sup>9</sup> As the International Bureau has explained:

the Commission attempts, when possible, to leave spacecraft design decisions to the space station licensee because the licensee is in a better position to determine how to tailor its system to meet the particular needs of its customers. Consequently the Commission will generally grant a licensee’s request to modify its system, provided there are no compelling countervailing public interest considerations.<sup>10</sup>

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AMC-2, so there will be no overlap of the two satellites’ stationkeeping volume. ASTRA 4A operates in the 11.7-12.75 GHz, 14.0-14.25 GHz, 17.3-18.1 GHz, 18.8-19.3 GHz, 19.7-19.95 GHz, 21.5-21.75 GHz, 29.15-29.4 GHz and 29.5-30.0 GHz bands, and ASTRA 1E operates in the 10.7-11.2 GHz and 11.45-12.1 GHz, 12.75-13.25 GHz, 14.0-14.25 GHz and 17.3-17.7 GHz bands. Both ASTRA 4A and ASTRA 1E operate pursuant to ITU filings submitted by Sweden.

<sup>9</sup> *SES Americom, Inc.*, Order and Authorization, DA 06-757 (IB rel. Apr. 7, 2006) at 4, ¶ 8, citing *Amendment of the Commission’s Space Station Licensing Rules and Policies*, Second Report and Order, 18 FCC Rcd 12507, 12509, ¶ 7 (2003).

<sup>10</sup> *AMSC Subsidiary Corp.*, Order and Authorization, DA 98-493, 13 FCC Rcd 12316 (IB 1998) (“*AMSC Modification Order*”) at 12318, ¶ 8 (footnote omitted). Although AMSC never implemented the relocation authorized in this case, the Commission has repeatedly reaffirmed its policy of allowing licensees to change their fleet configurations to accommodate customer requirements. See, e.g., *Space Station Licensing Rules and Policies*, First Reconsideration Order and Fifth Report and Order, FCC 04-147, 19 FCC Rcd 12637, 12653, ¶ 39 (“we generally permit



Pursuant to this policy, the Commission has routinely authorized satellite operators to configure or reconfigure their fleets in order to satisfy customer demand, including demand for capacity outside the U.S. For example, the Commission has authorized U.S. licensees to relocate satellites from orbital positions over the U.S. to locations without U.S. coverage in order to respond to existing or potential demand for capacity.<sup>11</sup> Similarly, the Commission has granted U.S. licenses to operators for satellites at locations from which no U.S. coverage is planned or possible.<sup>12</sup>

Here, the proposed change will allow SES to make efficient use of AMC-2 in order to expand the available capacity at the nominal 5° E.L. orbital location. Because SES has already transferred customers that had been using AMC-2 at the nominal 79° W.L. orbital location, the relocation of AMC-2 will not have any impact on existing services.

Relocation of AMC-2 to 4.98° E.L. will not adversely affect other operators. The proposed stationkeeping volume will not overlap with that of any other spacecraft. SES will operate only the TT&C frequencies of AMC-2 during the drift.<sup>13</sup> SES will follow standard

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licensees to modify their systems to adapt to changing business and customer needs,” citing *AMSC Modification Order* and other cases).

<sup>11</sup> See, e.g., *Intelsat North America LLC*, Call Sign S2159, File No. SAT-T/C-20100112-00009, grant-stamped July 30, 2010 (authorizing Intelsat to relocate Galaxy 27 from 129° W.L. to 45.10° E.L.); *PanAmSat Licensee Corp.*, Call Sign S2253, File No. SAT-MOD-20080225-00051, grant-stamped July 22, 2008 (authorizing relocation of Galaxy 11 from 91° W.L. to 32.80° E.L. in order to supplement service provided there by Intelsat 802, which had suffered an anomaly that reduced its available power); *AMSC Modification Order* (authorizing AMSC to relocate its satellite away from 101° W.L. in order to provide service to southern Africa).

<sup>12</sup> See, e.g., *Afrispace, Inc.*, Order and Authorization, DA 06-4, 21 FCC Rcd 7 (IB 2006) (authorizing launch and operation of AfriStar-2 satellite for service to Africa and Europe from 21° E.L.); *Assignment of Orbital Locations to Space Stations in the Ka-Band*, Order, DA 96-708 (IB 1996) (assigning 33 orbital locations between 62° W.L. and 175.25° E.L. to 13 Ka-band applicants, finding that the public interest would be served by authorizing international operations pending the development of policies for Ka-band satellite service within the U.S.).

<sup>13</sup> The AMC-2 TT&C frequencies are as follows:

Command: 6423.5 MHz (horizontal polarization; uplink)

industry practices for coordination of TT&C transmissions during the relocation process. Once AMC-2 arrives at 4.98° E.L., SES will operate the satellite pursuant to Swedish ITU filings and in conformance with Sweden's coordination agreements regarding that location.

SES hereby certifies that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862. SES 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.

For the foregoing reasons, SES respectfully requests STA to relocate AMC-2 from 78.95° W.L. to 4.98° E.L. beginning on or about October 21, 2011.

Respectfully submitted,

SES AMERICOM, INC.

By: /s/ Daniel C. H. Mah

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Of Counsel  
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Dated: October 17, 2011

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Telemetry: 3700.5 MHz (horizontal polarization; downlink), 4199.5 MHz (vertical polarization; downlink), and 12198.0 MHz (horizontal polarization; downlink).