



GRANTED
International Bureau

File # SAT-MOD-20080318-00073

Call Sign 52447 Grant Date 6/11/2008
(or other identifier)

Term Dates

From: _____ To: 12/31/2010

Approved by OMB
3060-0678

Approved: [Signature] Chief of Staff
Robert G. Nelson Division

Date & Time Filed: Mar 18 2008 11:25:05:540AM
File Number: SAT-MOD-20080318-00073

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:
Satcom C-3 Modification Application Mar 2008

1-8. Legal Name of Applicant

Name:	SES Americom, Inc.	Phone Number:	609-987-4000 x4187
DBA Name:		Fax Number:	609-987-4233
Street:	4 Research Way	E-Mail:	nancy.eskenazi@ses-amicom.com
City:	Princeton	State:	NJ
Country:	USA	Zipcode:	08540 -
Attention:	Ms Nancy J Eskenazi		

Attachment
File No. SAT-MOD-20080318-00073
Call Sign S2447
June 11, 2008

The application of SES Americom, Inc. (SES Americom), File No. SAT-MOD-20080318-00073, to modify its license is granted, and the license term for the Satcom C-3 satellite (Call Sign S2447) is modified to specify an expiration date of December 31, 2010.

This action is without prejudice to any enforcement action in connection with unauthorized operation between December 16, 2007, and the date of this grant.



File # SAT-MOD-20080318-00073
With attached conditions

Call Sign S2447 Grant Date 6/11/2008
(or other identifier)

Term Dates
From: _____ To: 12/31/2010

Approved: [Signature] *Ch. of*
Robert G. Nelson Satellite
Division

9-16. Name of Contact Representative

Name:	Karis A. Hastings	Phone Number:	202-637-5767
Company:	Hogan & Hartson L.L.P.	Fax Number:	202-637-5910
Street:	555 Thirteenth Street, NW	E-Mail:	KAHastings@HHLaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004-1109
Attention:		Relationship:	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

TYPE OF SERVICE

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:	
<input checked="" type="checkbox"/> a. Fixed Satellite <input type="checkbox"/> b. Mobile Satellite <input type="checkbox"/> c. Radiodetermination Satellite <input type="checkbox"/> d. Earth Exploration Satellite <input checked="" type="checkbox"/> e. Direct to Home Fixed Satellite <input type="checkbox"/> f. Digital Audio Radio Service <input type="checkbox"/> g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose only one. <input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier	22. If earth station applicant, check all that apply. <input type="checkbox"/> Using U.S. licensed satellites <input type="checkbox"/> Using Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities: <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	
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s). <input checked="" type="checkbox"/> a. C-Band (4/6 GHz) <input type="checkbox"/> b. Ku-Band (12/14 GHz) <input type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)	

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.

Exhibit A

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

Yes No

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

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. Exhibit B

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.)

See Attachment 1

Attachment 1

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
Nancy J. Eskenazi

46. Title of Person Signing
Vice President and Associate General 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).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to jboley@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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 by)
SES AMERICOM, INC.) File No. SAT-STA-_____
For Modification of the Satcom C-3 License to)
Extend the License Term and)

APPLICATION OF SES AMERICOM, INC.

By this application, SES Americom, Inc. (“SES Americom”) respectfully requests an extension through December 31, 2010 of the license for its Satcom C-3 satellite and seeks authority to deorbit the spacecraft at the end of its life. A completed FCC Form 312 is attached, and SES Americom incorporates by reference the technical information previously provided in support of Satcom C-3.¹ SES Americom is also attaching the information regarding orbital debris mitigation required pursuant to Section 25.114(d)(14) of the Commission’s rules.

LICENSE EXTENSION

Satcom C-3 is a geostationary C-band satellite operating in inclined orbit at 79.05° W.L. The license term for Satcom C-3 expired on December 16, 2007, and due to an administrative oversight, SES Americom did not submit an application to extend the license term prior to that date. SES Americom has requested special temporary authority for continuing operations (*see* File No. SAT-STA-20080311-00062) and here seeks an extension of the Satcom C-3 license term to allow long-term continued operations. Grant of this modification will serve

¹ The most recent technical information regarding operations of Satcom C-3 is found in File No. SAT-MOD-20040812-00159 (grant-stamped Oct. 18, 2004) and File No. SAT-MOD-20050609-00118 (grant-stamped July 20, 2005).

the public interest by promoting efficient use of orbital resources and permitting continued service to customers.

Satcom C-3 commenced operation December 16, 1992 with an original ten-year license term. The term was extended to fifteen years pursuant to the Commission's decision in the Space Station Licensing Reform proceeding.² Satcom C-3 remains capable of providing reliable and affordable C-band service to customers. Specifically, SES Americom estimates based on currently available data that Satcom C-3's useful life will extend through the end of 2010. SES Americom is not proposing any change in Satcom C-3's operations, which will continue to conform to the technical parameters on file with the Commission.

Extending the license for Satcom C-3 will serve the public interest by allowing the continued use of Satcom C-3 to offer service to customers at 79.05° W.L. In addition, grant of the license extension will promote the efficient use of orbital resources.

DEORBIT AUTHORITY

SES Americom also seeks authority to deorbit Satcom C-3 at its end of life. Specifically, SES Americom seeks a modification of the Satcom C-3 license to permit continued operation of the TT&C systems of Satcom C-3 during deorbit maneuvers as described herein.

SES Americom requests deorbit authority pursuant to the procedures applicable to satellites launched prior to March 18, 2002. These satellites are not subject to the minimum perigee requirement in Section 25.283 (a) of the Commission's rules.

² *Amendment of the Commission's Space Station Licensing Rules and Policies*, First Report and Order and Further Notice of Proposed Rulemaking, 18 FCC Rcd 10860 (2003). *See also* File No. SAT-MOD-20050609-00118, grant-stamp dated July 20, 2005, Conditions of Authorization at ¶ 3 ("The license term for the C-band Satcom C-3 satellite expires on December 16, 2007").

SES Americom plans to perform initial maneuvers to raise Satcom C-3 to a minimum apogee and perigee of 150 km above the geostationary arc. If additional fuel remains once this altitude is attained, SES Americom will continue maneuvers to raise the deorbit altitude further and deplete the remaining fuel. Once SES Americom verifies the precise new orbit parameters, the end of life maneuvers will be complete, all systems, including the battery recharging system, will be turned off, and all transmissions to and from the satellite will cease.

Grant of the requested authority will serve the public interest by providing the authority SES Americom will require to perform necessary deorbit maneuvers when retiring Satcom C-3.

CONCLUSION

For the foregoing reasons, the Commission should extend the license term for Satcom C-3 at 79.05° W.L. through December 31, 2010 and authorize SES Americom to perform deorbit maneuvers as described herein.

Respectfully submitted,

SES AMERICOM, INC.

By: /s/ Nancy J. Eskenazi

Nancy J. Eskenazi
Vice President and Associate
General Counsel
SES Americom, Inc.
Four Research Way
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Of Counsel

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Fax: (202) 637-5910

Dated: March 17, 2008

Appendix 1: Orbital Debris Mitigation Showing

This appendix is submitted in support of the application of SES Americom, Inc. ("SES Americom") for a modification extending the term of its license for the Satcom C-3 C-band spacecraft at 79.05° W.L. and seeking deorbit authority. SES Americom incorporates by reference herein the technical information it has already provided with respect to Satcom C-3,¹ and provides here information regarding orbital debris mitigation required pursuant to Section 25.114(d)(14) of the Commission's Rules.

§ 25.114(d)(14)(i): SES Americom has assessed and limited the amount of debris released in a planned manner during normal operations of Satcom C-3. No debris is generated during normal on-station operations, and the spacecraft will be in a stable configuration. On-station operations require stationkeeping within the +/- 0.05 degree E-W control box, but N-S stationkeeping of Satcom C-3, which is operating in inclined orbit, has ceased.

SES Americom has also assessed and limited the probability of the space station becoming a source of orbital debris by collisions with small debris or meteoroids that could cause loss of control and prevent post-mission disposal. SES Americom requires that spacecraft manufacturers assess the probability of micrometeorite damage that can cause any loss of functionality. This probability is then factored into the ultimate spacecraft probability of success. Any significant probability of damage would need to be mitigated in order for the spacecraft design to meet SES Americom's required probability of success of the mission. The design of Satcom C-3 locates all sources of stored energy within the body of the structure, which provides protection from small orbital debris. SES Americom has taken steps to limit the effects of any collisions through shielding, the placement of components, and the use of redundant systems.

§ 25.114(d)(14)(ii): SES Americom has assessed and limited the probability of accidental explosions during and after completion of mission operations. As part of the Safety Data Package submission for SES Americom spacecraft, an extensive analysis is completed by the spacecraft manufacturer, reviewing each potential hazard relating to accidental explosions. A matrix is generated indicating the worst-case effect, the hazard cause, and the hazard controls available to minimize the severity and the probability of occurrence. Each subsystem is analyzed for potential hazards, and the Safety Design Package is provided for each phase of the program running from design phase, qualification, manufacturing and operational phase of the spacecraft. Also, the spacecraft manufacturer generates a Failure Mode Effects and Criticality Analysis for the spacecraft to identify all potential mission failures. The risk of accidental explosion is included as part of this analysis. This analysis indicates failure modes, possible causes, methods of detection, and compensating features of the spacecraft design.

¹ See File No. SAT-MOD-20040812-00159 (grant-stamped Oct. 18, 2004) and File No. SAT-MOD-20050609-00118 (grant-stamped July 20, 2005).

The design of the Satcom C-3 spacecraft is such that the risk of explosion is minimized both during and after mission operations. In designing and building the spacecraft, the manufacturer took steps to ensure that debris generation will not result from the conversion of energy sources on board the satellite into energy that fragments the satellite. All propulsion subsystem pressure vessels, which have high margins of safety at launch, have even higher margins in orbit, since use of propellants and pressurants during launch decreases the propulsion system pressure. Burst tests were performed on all pressure vessels during qualification testing to demonstrate a margin of safety against burst. Bipropellant mixing is prevented by the use of valves that prevent backwards flow in propellant and pressurization lines. All pressures, including those of the batteries, are monitored by telemetry.

At the end of operational life, after the satellite has reached its final disposal orbit, on-board sources of stored energy will be depleted or secured, and the batteries will be discharged.

§ 25.114(d)(14)(iii): SES Americom has assessed and limited the probability of the space station becoming a source of debris by collisions with large debris or other operational space stations. Specifically, SES Americom has assessed the possibility of collision with satellites located at, or reasonably expected to be located at, the requested orbital location or assigned in the vicinity of that location.

Regarding avoidance of collisions with controlled objects, in general, if a geosynchronous satellite is controlled within its specified longitude and latitude stationkeeping limits, collision with another controlled object (excluding where the satellite is collocated with another object) is the direct result of that object entering the allocated space.

The instant application seeks extension of the license for Satcom C-3 at 79.05° W.L. SES Americom operates the AMC-5 spacecraft at 78.95° W.L., so its stationkeeping volume abuts, but does not overlap with, that of Satcom C-3. SES Americom is not aware of any other FCC- or non-FCC licensed spacecraft that are operational or planned to be deployed at 79.05° W.L. or to nearby orbital locations such that there would be an overlap with the stationkeeping volume of Satcom C-3.

SES Americom also has a contract with an external laboratory that is monitoring encounters between satellites under SES Americom's control and some 500 active and inactive drifting objects. Any close encounters (separation of less than 5 km) are flagged and investigated in more detail. If required, avoidance maneuvers are performed to eliminate the possibility of collisions.

During relocation, the moving spacecraft is maneuvered such that it is at least 30 km away from the synchronous radius at all times. In most cases, much larger deviation from the synchronous radius is used. In addition, the external laboratory's assistance is used to ensure no close encounter occurs during the move.

When de-orbit of a spacecraft is required, the initial phase is treated as a satellite move, and the same precautions are used to ensure collision avoidance.

§ 25.114(d)(14)(iv): Post-mission disposal of the satellite from operational orbit will be accomplished by carrying out maneuvers to a higher orbit. The upper stage engine remains part of the satellite, and there is no re-entry phase for either component. The fuel budget for elevating the satellite to a disposal orbit is included in the satellite design. SES Americom plans to maneuver Satcom C-3 to a disposal orbit with a minimum perigee of 150 km above the normal operational altitude. Satcom C-3 is not subject to the minimum perigee requirement of Section 25.283(a) of the Commission's Rules because the satellite was launched prior to March 18, 2002. SES Americom intends to reserve 1.8 kg of fuel in order to account for post-mission disposal of Satcom C-3. SES Americom has assessed fuel gauging uncertainty and has provided an adequate margin of fuel reserve to address the assessed uncertainty.

The disposal orbit altitude resulting from application of the IADC formula would be 255 km based on the following calculation:

Area of the satellite (average aspect area): 7.03 m²

Mass of the spacecraft: 622 kg

CR (solar radiation pressure coefficient): 1.75

Therefore the disposal altitude as calculated under the IADC formula is:

$36,021 \text{ km} + (1000 \times \text{CR} \times \text{A/m}) = 36,041 \text{ km}$, or 255 km above the GSO arc (35,786 km)

**ALIEN OWNERSHIP
(Response to Item 34)**

Section 310(b)(4) of the Communications Act of 1934, as amended, establishes certain limitations on indirect foreign ownership and voting of certain common carrier and broadcast licensees. By definition, these limitations do not apply to the non-broadcast, non-common carrier operations of SES Americom, Inc. proposed in this application.

**LIST OF STOCKHOLDERS, OFFICERS AND DIRECTORS
(Response to Item 40)**

The applicant, SES Americom, Inc. ("SES Americom"), is an indirect wholly-owned subsidiary of SES S.A. ("SES," formerly known as SES Global S.A.). SES Global-Americas, Inc. and four wholly-owned subsidiaries of SES Global-Americas, Inc. (SES Subsidiary Inc. 23, SES Subsidiary Inc. 24, SES Subsidiary Inc. 25 and SES Subsidiary Inc. 26) together directly hold 100% of the capital stock of SES Americom. SES Global Americas Holdings GP, a Delaware general partnership that is wholly owned by SES, holds 100% of the capital stock of SES Global-Americas, Inc. With the exception of SES, all of these entities are U.S. corporations or partnerships.

SES is a Luxembourg company that wholly owns SES Americom, SES ASTRA (formerly Société Européenne des Satellites S.A.), and SES NEW SKIES. Through its subsidiaries and affiliates, SES engages in the provision of satellite services in North and South America, Europe, Africa and Asia.

SES has offices at L-6815 Château de Betzdorf, Luxembourg. The address of the intermediary holding companies is 4 Research Way, Princeton, NJ 08540.

The directors of SES Americom are:

Romain Bausch
Robert Bednarek
Martin Halliwell
Edward Horowitz
Ferdinand Kayser
Mark Rigolle
Robert Ross
René Steichen
François Tesch

The address of Messrs. Bausch, Halliwell, Kayser, Rigolle, Ross, Steichen and Tesch is SES S.A., L-6815 Château de Betzdorf, Luxembourg. The address of Mr. Bednarek is Rooseveltplantsoen 4, 2517 KR The Hague, The Netherlands. The address of Mr. Horowitz is SES Americom, Inc., 4 Research Way, Princeton, NJ 08540. Messrs. Bednarek, Horowitz, and Ross are U.S. nationals; Messrs. Bausch, Kayser, Steichen and Tesch are Luxembourg nationals; Mr. Halliwell is a British national; and Mr. Rigolle is a Belgian and British national.

The officers of SES Americom are:

NAME	TITLE
Edward D. Horowitz	President/CEO
Jim Ducay	Senior Vice President
Jack Friedman	Senior Vice President/General Counsel/Secretary
Anders Johnson	Senior Vice President
Robert J. Kisilywicz	Senior Vice President/CFO
Bryan McGuirk	Senior Vice President
John Russo	Senior Vice President
William Squadron	Senior Vice President
Alan Young	Senior Vice President/Chief Technology Officer
Mary Kathryn Uhl	Senior Vice President, Human Resources
William Berman	Vice President
Steve Bunke	Vice President
Carl Capista	Vice President
Christopher Coogan	Vice President
Steve Corda	Vice President
Nancy J. Eskenazi	Vice President/Assistant Secretary
Peter Gustafson	Vice President
Richard A. Langhans	Vice President
David J. Lidstone	Vice President/Assistant Secretary
David Lihani	Vice President/Assistant Secretary
Monica Morgan	Vice President
Sergy Mummert	Vice President
John A. Nelsen	Vice President
Maureen Offord	Vice President
Steven Osman	Vice President
Aaron Shourie	Vice President/Assistant Secretary
Orlando Skelton	Vice President
Kent Verner	Vice President
Hanaa Nasr	Assistant Treasurer - Taxes
William J. Runzer	Assistant Treasurer

The address of all the officers is SES Americom, Inc., 4 Research Way, Princeton, NJ 08540.
 All of the officers are U.S. nationals.

The names, addresses, and citizenship of stockholders owning of record and/or voting 10 percent or more of SES voting stock are:

1. The Etat du Grand Duché de Luxembourg (the “State of Luxembourg”) – and Banque et Caisse d’Epargne de l’Etat (“BCEE”) and Société Nationale de Crédit et d’Investissement (“SNCI”), each of which is an institution created by act of the Luxembourg Parliament and 100% owned by the State of Luxembourg – hold Class B shares of SES representing

a combined effective economic interest of 16.67% and effective voting power of 33.33%. In addition, in March 2007 these entities received SES Fiduciary Deposit Receipts ("FDRs"), which each represent one Class A share of SES, representing a combined 4.03% economic interest and effective voting power of 3.22%. SES Americom has no information regarding whether the Class B shareholders continue to hold these FDRs. The principal business of both BCEE and SNCI is financial services. The addresses of BCEE and SNCI are as follows:

Banque et Caisse d'Epargne de l'Etat
1, place de Metz
L-2954 Luxembourg

Société Nationale de Crédit et d'Investissement
7, place du St. Esprit
L-1475 Luxembourg

The address for the State of Luxembourg is Ministry of State, 4 rue de la Congrégation, L-2910, Luxembourg.