



File # SAT-MOD-20050325-00077

Call Sign S2415 Grant Date MAY 5, 2005
(or other identifier)

From 5/5/05 Term Dates To: 4/6/2020

Approved by OMB
3060-0678

Approved: [Signature] Chief Satellite
Robert G. Nelson Engineering Branch

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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:

AMC-12 modification - permanent assignment at offset orbital location 3/2005

1-8. Legal Name of Applicant

Name:	Columbia Communications Corporation	Phone Number:	609-987-4000 x4448
DBA Name:		Fax Number:	609-987-4233
Street:	4 Research Way	E-Mail:	nancy.eskenazi@ses-americom.com
City:	Princeton	State:	NJ
Country:	USA	Zipcode:	08540 -
Attention:	Ms. Nancy J. Eskenazi		

9-16. Name of Contact Representative (If other than applicant)

Name:	Karis A. Hastings	Phone Number:	202-637-5767
Company:	Hogan & Hartson L.L.P.	Fax Number:	202-637-5910
Street:	555 Thirteenth St., N.W.	E-Mail:	kahastings@hhlaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004-1109
Contact Title:		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
 (N/A) b3. Amendment to a Pending Application
 (N/A) b4. Modification of License or Registration
b5. Assignment of License or Registration
b6. Transfer of Control of License or Registration
 (N/A) 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)

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:

- a. Fixed Satellite
- b. Mobile Satellite
- c. Radiodetermination Satellite
- d. Earth Exploration Satellite
- e. Direct to Home Fixed Satellite
- f. Digital Audio Radio Service
- g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

- Common Carrier Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites
- 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:

- Connected to a Public Switched Network Not connected to a Public Switched Network N/A

24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)
- 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 N/A

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

Exhibit B

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 C

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 Att. 1

Att. 1

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
Assistant Secretary

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

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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 by)
)
COLUMBIA COMMUNICATIONS CORP.) File No. SAT-STA-_____
)
For Modification of AMC-12)
Fixed-Satellite Space Station License)

APPLICATION OF COLUMBIA COMMUNICATIONS CORPORATION

Columbia Communications Corporation ("Columbia") hereby respectfully requests a modification of its license for the AMC-12 fixed-satellite space station to assign the satellite permanently to the 37.45° W.L. orbital location. Columbia seeks to operate at a slight offset from the 37.5° W.L. orbital position originally assigned to AMC-12 in order to effectuate an agreement on stationkeeping coordination with Loral Skynet, whose Telstar 11 spacecraft is also assigned to the 37.5° W.L. nominal orbital location. Grant of the instant request will serve the public interest. A completed FCC Form 312 and a technical appendix are attached in support of this application.

AMC-12 is a C-band satellite that was launched on February 2, 2005, and is licensed to operate at the 37.5° W.L. orbital position.¹ AMC-12 recently

¹ See *Columbia Communications Corporation, Order and Authorization*, DA 05-244 (Sat. Div. rel. Jan. 28, 2005) (the "AMC-12 Order").

completed testing at 67.5° W.L., and Columbia has begun drifting the satellite to its assigned orbital location.²

Columbia's parent, SES Americom, Inc., is currently providing C-band service at 37.5° W.L. using its Satcom C-1 spacecraft.³ Satcom C-1 is collocated with Loral Skynet's Telstar 11, and the two spacecraft have been flying in formation to permit sharing of the same stationkeeping volume (37.5° W.L. +/- 0.05 degrees). This arrangement has worked successfully, but requires a high degree of collaboration on the part of the two operators and an increased number of maneuvers to maintain an appropriate separation between the spacecraft.

In order to simplify stationkeeping on a going forward basis, Columbia and Loral Skynet have conducted discussions regarding operation of AMC-12 and Telstar 11 at offsets from the 37.5° W.L. nominal orbital position. As a result of those discussions, Columbia has agreed to seek authority to operate AMC-12 centered at 37.45° W.L. with +/- 0.05 degree East/West stationkeeping, and Loral Skynet has agreed to seek authority to operate Telstar 11 at 37.55° W.L. +/- 0.05 degrees. This arrangement will eliminate any overlap of the stationkeeping volumes of the two spacecraft, thereby facilitating joint operations.

As demonstrated in the technical appendix, grant of the requested authority will not adversely affect any other operators. The adjacent C-band satellites to AMC-12's assigned location are New Skies 806 at 40.5° W.L. and

² See letter of Karis A. Hastings, counsel for Columbia Communications Corp., to Marlene H. Dortch dated Mar. 21, 2005.

³ See *AMC-12 Order* at ¶ 16.

Intelsat 903 at 34.5° W.L., each with 3° separation from 37.5° W.L. Although the proposed offset would result in AMC-12 being slightly closer to Intelsat 903, the satellites will still be spaced 2.95 degrees apart, and there will be no material change to the existing interference environment. AMC-12 is fully compliant with the Commission's requirements with respect to operation at two-degree spacing.⁴

For the foregoing reasons, Columbia seeks a modification of the AMC-12 license to assign the spacecraft to the 37.45° W.L. orbital location.

Respectfully submitted,

COLUMBIA COMMUNICATIONS CORP.

By: /s/ Nancy J. Eskenazi

Nancy J. Eskenazi
Assistant Secretary
Columbia Communications Corp.
Four Research Way
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Dated: March 25, 2005

⁴ See AMC-12 Order at ¶¶ 8-10.

Technical Appendix

1. Introduction

This technical appendix is submitted in support of the application of Columbia Communications Corporation ("Columbia") for a modification of its license for the AMC-12 C-band spacecraft. Columbia seeks permanent assignment of the spacecraft to 37.45° W.L. instead of 37.5° W.L. Columbia incorporates by reference herein the technical information it has already provided with respect to AMC-12,¹ and provides here technical information that is changing as a result of the proposed modification.

2. Gain Contours

Columbia is not submitting new contour maps with this application. The proposed shift in orbital location from 37.5° W.L. to 37.45° W.L. will produce no visible change in the gain contours from the maps already on file.

3. Link Budgets and Interference Analysis

The adjacent C-band satellites to AMC-12's assigned location are New Skies 806 at 40.5° W.L. and Intelsat 903 at 34.5° W.L., each with 3° separation from 37.5° W.L. Columbia provided an interference analysis with its prior technical amendment that demonstrated that operation of AMC-12 was compatible with the adjacent satellites at 37.5° W.L. with the existing three-degree spacing or assuming two-degree spacing.²

The proposed offset operation of AMC-12 will slightly increase the orbital separation between AMC-12 and New Skies 806, and slightly decrease the orbital separation between AMC-12 and Intelsat 903. In each case, Columbia has calculated that implementation of the proposed offset would result in a change equal to or less than 0.18 dB in the interference environment of two-degree compliant earth stations communicating with the adjacent satellites, as shown in the table below.

¹ See File Nos. SAT-MOD-20020517-00078 & SAT-AMD-20040826-00161.

² See File No. SAT-AMD-20040826-00161, Narrative at 2-4 & Tables 1-4.

	<u>Intelsat</u>	<u>NSS</u>
<u>Current Orbital Position (37.5)</u>		
Offset Angle	3.00	3.00
Gain (1) @ Offset angle	17.07	17.07
<u>Proposed Orbital Position (37.45)</u>		
Offset Angle	2.95	3.05
Gain (2) @ Offset angle	17.25	16.89
$\Delta (Gain(1) - Gain(2))$	-0.18	0.18

Given that the proposed offset operation of AMC-12 will not result in any material change to the existing interference environment with respect to AMC-12, New Skies 806, and Intelsat 903, no link budget analysis is provided herein. In the unlikely event that any future concerns arise concerning operations of AMC-12 at the proposed offset location, Columbia will coordinate with the adjacent operators in order to arrive at a mutually satisfactory solution.

4. Schedule S

As discussed above, the proposed modification of the AMC-12 license to offset the satellite by 0.05 degrees from 37.5° W.L. will not result in any material changes to the spacecraft's operating characteristics or to the interference environment. As a result, the information requested in Schedule S duplicates information that is already on file with the Commission concerning the technical parameters of AMC-12's operation. In similar cases involving requests for slight offsets from the nominal orbital position, the Satellite Division has not required the submission of a new Schedule S.³ Accordingly, Columbia is not filing a new Schedule S with this application. Columbia will nevertheless prepare and submit a Schedule S if requested to do so by the Satellite Division.

³ See, e.g., File No. SAT-MOD-20040405-00076 (PanAmSat request for authority to operate SBS-6 at 74.05° W.L. rather than 74.0° W.L.).

DECLARATION OF JAIME LONDONO

I, Jaime Londono, hereby certify under penalty of perjury that I am the technically qualified person responsible for preparation of the technical information contained in the foregoing exhibit; that I am familiar with the technical requirements of Part 25; and that I either prepared or reviewed the technical information contained in the exhibit and that it is complete and accurate to the best of my knowledge, information and belief.

/s/ Jaime Londono
SES Americom, Inc.

Dated: March 25, 2005

**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 non-common carrier space station licenses held by Columbia Communications Corporation.

APPLICATION DENIALS
(Response to Item 36)

In *Columbia Communications Corp., Order*, 103 FCC 2d 618 (1985), the Commission denied Columbia's application for authority to construct, launch, and operate two hybrid satellites in the domestic fixed-satellite service upon finding that Columbia had failed to establish its financial qualifications.

In *Columbia Communications Corp., Order*, File No. 932-DSS-P/L-84 (CCB, rel. March 7, 1986), the Common Carrier Bureau, citing an outstanding freeze on space station applications for orbital locations between 30° W.L. and 60° W.L., refused to accept for filing an amendment to Columbia's application for a domestic satellite at 45° W.L. that would have converted the proposal to an international satellite application at 49° W.L.

In *Columbia Communications Corporation, Memorandum Opinion and Order*, 15 FCC Rcd 15566, the International Bureau denied Columbia's petition to revoke the authorization of Loral Space & Communications, Ltd. ("Loral") to launch and operate a Ku-band satellite at 47° W.L. Further, because Loral's authorization was left undisturbed, the Bureau denied Columbia's applications to modify its existing C-band satellite authorization at this location to add Ku-band capacity and to amend its 1987 Ku-band satellite application to move it to the 47° W.L. orbital location.

In *SES Americom, Inc., Order and Authorization*, DA 04-1581 (Sat. Div. rel. May 27, 2004), the Satellite Division granted the application of Columbia's parent company SES Americom to modify its license for Satcom SN-4 to permanently assign that spacecraft to the 172° E.L. orbital location. The decision noted that Columbia had been authorized to construct a new satellite at that orbital location but stated that because Columbia had failed to meet the construction and launch milestones, its authorization had become null and void by its own terms. *Id.* at 2 n.5.

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

The applicant, Columbia Communications Corporation ("Columbia") is a wholly-owned subsidiary of SES Americom, Inc. ("SES Americom"). SES Americom is an indirect wholly-owned subsidiary of SES Global S.A. ("SES Global"). 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 Global, holds 100% of the capital stock of SES Global-Americas, Inc. With the exception of SES Global, all of these entities are U.S. corporations or partnerships.

SES Global is a Luxembourg company, formed for the purpose of holding indirectly 100% of the shares of SES Americom and directly 100% of the shares of SES ASTRA (formerly Société Européenne des Satellites S.A.), as well as other non-European and non-U.S. satellite interests that were formerly owned by SES Americom and SES ASTRA. Through its subsidiaries and affiliates, SES Global engages in the provision of satellite services in North and South America, Europe and Asia.

SES Global 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 Columbia are Romain Bausch and Robert J. Kisilywicz. The address of Mr. Bausch is SES Global S.A., L-6815 Château de Betzdorf, Luxembourg. The address of Mr. Kisilywicz is Columbia Communications Corporation, 4 Research Way, Princeton, NJ 08540. Mr. Kisilywicz is a U.S. national. Mr. Bausch is a Luxembourg national.

The officers of Columbia are:

Brent Bruun	Vice President
Robert J. Kisilywicz	Vice President
Stanley Konopka	Assistant Treasurer – Taxes
Hanaa Nasr	Assistant Treasurer – Taxes
David J. Lidstone	Acting Secretary
Nancy J. Eskenazi	Assistant Secretary

The address of all the officers is Columbia Communications Corporation, 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 Global's voting stock are:

1. General Electric Capital Corporation ("GE Capital") holds shares of SES Global representing an economic interest of 30.73% and voting power of 20.10%. GE Capital is a corporation organized under the laws of New York. GE Capital engages in a broad spectrum of financial services, including distribution, sales financing, commercial and industrial financing, real estate, transportation and reinsurance. GE Capital's address is as follows:

General Electric Capital Corporation
260 Long Ridge Road
Stamford, CT 06927

2. 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 shares of SES Global, representing a combined total economic interest of 16.67% and voting power of 34.90%. 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.