Approved by OMB 3060–0678

Date & Time Filed: Feb 25 2005 2:28:36:063PM File Number: SES-AFS-20050225-00226

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: Amendment to (E040448) SES-LIC-20041201-01773 to Add AMC-16 as Point of Communication

1–8. Legal Name of Applicant **Phone Number:** Name: EchoStar Satellite L.L.C. 303-723-1000 DBA Fax Number: 303-723-1699 Name: 9601 South Meridian Blvd. Street: E-Mail: City: Englewood State: CO USA Zipcode: 80112 **Country:** \_ Attention: David K Moskowitz

me:	Pantelis Michalopoulos	Phone Number:	202-429-6494
Company:	Steptoe & Johnson LLP	Fax Number:	202-429-3902
Street:	1330 Connecticut Ave., N.W.	E-Mail:	pmichalo@steptoe.com
ity:	Washington	State:	DC
ountry:	USA	Zipcode:	20036-1796
ontact itle:		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.	<ul> <li>(N/A) b1. Application for License of New Station</li> <li>(N/A) b2. Application for Registration of New Domestic Receive–Only Station</li> <li>(N/A) b3. Amendment to a Pending Application</li> </ul>
<ul> <li>a1. Earth Station</li> <li>a2. Space Station</li> </ul>	<ul> <li>(N/A) b4. Modification of License or Registration</li> <li>b5. Assignment of License or Registration</li> <li>b6. Transfer of Control of License or Registration</li> <li>(N/A) b7. Notification of Minor Modification</li> <li>(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite</li> <li>(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States</li> <li>(N/A) b10. Other (Please specify)</li> </ul>

17c. Is a fee submitted with this applicat					
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see	ee 47 C.F.R.Section 1.1114).			
o Governmental Entity o Noncommercial educational licensee					
• Other(please explain):					
17d.					
Fee Classification CGV – Fixed Satellite VSAT System					
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a			
(a) Call sign of station: E040448 (a) Date pending application was filed: (b) File number:					
	11/24/2004	SESLIC2004120101773			

## TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or	r 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 22	2. If earth station applicant, check all that apply.
	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	
23. If applicant is providing INTERNATIONAL COMMON CARRIER serv	
facilities:	ree, see instructions regarding see. 214 mings. Choose one. Are these
• Connected to a Public Switched Network • Not connected to a Public	blic Switched Network 💿 N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all appl	licable 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: 18600 Frequency Upper: 30000	(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
o c. 12/14 GHz VSAT Network
O 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



### 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 Rad.	-			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rout	te or	'	
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	۲	No	0	N/A
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	۲	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	۲	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?	0	Yes	0	No	۲	N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than	Ō	Yes	o	No	۲	N/A
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?						

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.

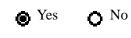
#### BASIC QUALIFICATIONS

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.	O Yes	● <sup>No</sup>
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 explination of circumstances.	<b>()</b> Yes Q. 36	O 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 explination of circumstances.	O 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	O 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 exhinit, an explanation of the circumstances.	• Yes	O 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.		

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.

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.



O No

• Yes

Q. 42

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? Canada

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.)

This modification requests authority to add AMC-16 at the 85W and 97W orbital locations as points of communications for E040448 and to extend the eastern end of the satellite arc range for the 2.4m hub earth station in Atlanta from 89W to 85W to allow communication with AMC-16. In addition, values for the azimuth angles and elevation angles for the hub

#### 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

O Unincorporated Association

- Partnership
- Corporation

Governmental Entity

Other (please specify)

45. Name of Person Signing	46. Title of Person Signing
David K. Moskowitz	Executive Vice President and 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).

#### SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth St	tation Site					
E1: Site Identifier:	Atlanta System	E5. Call Sign:	E040448			
E2: Contact Name	Howard Jetmundsen	E6. Phone Number:	404-978-8081			
E3. Street:	1190 West Druid Hills Drive	E7. City:	Atlanta			
		E8. County:	USA			
E4. State	GA	E9. Zip Code	30329			
E10. Area of Opera	tion:	United States				
E11. Latitude:	33 °49 '50.3 "N					
E12. Longitude:	84 °20 '26.5 "W					
E13. Lat/Lon Coord	linates are:	ONAD-27	NAD-83	O <sup>N/A</sup>		
E14. Site Elevation	(AMSL):	250.5 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	Yes	O <sup>No</sup>	O <sup>N/A</sup>
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O <sup>№</sup>	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	o	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as E.18	۲	Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: OTHER If you selected OT	If you selected OTHER, please enter the following:					
E21. Common Name: AMC-16 E22. ITU Name: USASAT-31U						
E23. Orbit Location: 97 W.L.	E24. Country: USA					

Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:

E21. Common Name: AMC–15	E22. ITU Name: USASAT–31K
E23. Orbit Location: 105 W.L.	E24. Country: USA

Satellite Name:	PERMITTED LIST	If you selected OTHER, please enter the following:				
E21. Common Name: ANIK F2 E22. ITU Name: CANSAT-1A						
E23. Orbit Locati	on: 111 W.L.		E24. Country: Canada			

Satellite Name:	PERMITTED LIST	If you selected OTHER, please enter the following:				
E21. Common Name: AMC-16 E22. ITU Name: USASAT-31U						
E23. Orbit Locati	on: 85 W.L.		E24. Country: USA			

Satellite Name:	PERMITTED LIST	If you selected OTHER, please enter the following:					
E21. Common Name: EchoStar 9 E22. ITU Name: USASAT-31G							
E23. Orbit Locati	ion: 121 W.L.		E24. Country: USA				

Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:						
E21. Common Name: Intelsat Americas–8	E22. ITU Name: USASAT–31S					
E23. Orbit Location: 89 W.L.	E24. Country: USA					
POINTS OF COMMUNICATION (Destination Points)						
E25. Site Identifier:						
E26. Common Name: E27. Country:						

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
Atlanta System	Hub	1	Prodelin	2.4 Meter	2.4	55.5 dBi at 29.75
	Remotes	100		66 centimeter	0.66	44.2 dBi at 29.75

E28. Antenna Id			E36. Above Sea Level(meters)	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Hub	0.0/0.0	13.34	250.55	9.144	11.2	4.2	66.0
Remotes	0.55/0.85	0.0	0.0	0.0	1.0	0.0	44.0

# FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Hub	19700 20200	R	Left and Right Circular	39M0G2D	0.0	0.0

E50. Modulation	and Services (If the	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
entirety.) Video and	Broadband					
Hub	29500 30000	Т	Left and Right Circular	39M0G2D	66.0	26.1
E50. Modulation entirety.)	and Services (If the services) (If the services)	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Video and	Broadband					
Hub	19700 20200	R	Left and Right Circular	5M00G2D-	0.0	0.0
E50. Modulation entirety.)	and Services (If the services)	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Video and	Broadband					
Hub	29500 30000	Т	Left and Right Circular	5M00G2D-	66.0	35.04

E50. Modulation	and Services (If the	he complete descripti	on does not appear ir	n this box, please go	to the end of the form	to view it in its
entirety.)						
Video and	Broadband					
Remotes	18600 18800	R	Left and Right Circular	2M70G2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear ir	this box, please go	to the end of the form	to view it in its
Video and	Broadband					
Remotes	19700 20200	R	Left and Right Circular	2M70G2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear ir	n this box, please go	to the end of the form	to view it in its
Video and	Broadband					
Remotes	28400 28600	Т	Left and Right Circular	2M70G2D	44.0	15.7

E50. Modulation	and Services (If the	ne complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
entirety.)						
Video and	Broadband					
Remotes	29500 30000	Т	Left and Right Circular	2M70G2D	44.0	15.7
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
Video and	Broadband					
Remotes	18600 18800	R	Left and Right Circular	256KG2D-	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
Video and	Broadband					
Remotes	19700 20200	R	Left and Right Circular	256KG2D-	0.0	0.0

E50. Modulatic entirety.)	n and Services (	If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Video and	Broadband					
Remotes	28400 28600	Т	Left and Right Circular	256KG2D-	44.0	25.94
E50. Modulation entirety.)	on and Services (	If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Video and	. Broadband					
Remotes	29500 30000	Т	Left and Right Circular	256KG2D-	44.0	25.94
E50. Modulation entirety.)	n and Services (	If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Video and	Broadband					

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	
Hub	Geostationary	19700 30000	85.0/121.0	181.1	50.76	233.2	34.73	-26.69
Remotes	Geostationary	18600 30000	0.0/0.0	0.0	0.0	0.0	0.0	-18.26
REMOTE CC	NTROL POIN	T LOCATION	•	•	•	•		-
E61. Call Sign E040448 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.E66. Phone Number (404) 978-8081								
E62. Street A 1190 West I	Address Druid Hills Drive			·				
E63. City Atlanta			E68. County Fulton	7		E67/68. State/Country GA/ USA	A	E64. Zip Code 30329

#### 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.

#### 43. Description. (Summarize the nature of the application and the services to be provided).

This modification requests authority to add AMC-16 at the 85W and 97W orbital locations as points of communications for E040448 and to extend the eastern end of the satellite arc range for the 2.4m hub earth station in Atlanta from 89W to 85W to allow communication with AMC-16. In addition, values for the azimuth angles and elevation angles for the hub earth station were corrected. No other changes were made to the authority sought in SES-LIC-20041201-01773.