Approved by OMB 3060–0678

Date & Time Filed: Aug 24 2010 7:25:45:866PM File Number: SES-MFS-20100824-01076

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: E060276 modification to add new 3.7 m C-band antenna

1–8. Legal Name of Applicant **Phone Number:** Name: Sirius XM Radio Inc. (212) 584-5100 DBA **Fax Number:** (212) 584-5353 Name: Street: 1221 Avenue of the Americas E-Mail: 36th Floor City: New York State: NY USA Zipcode: **Country:** 10020 Attention: Patrick L. Donnelly

Name:	Karis A. Hastings, Esq.	Phone Number:	(202) 637–5767
Company:	Hogan Lovells US LLP	Fax Number:	(202) 637–5911
Street:	555 Thirteenth Street, N.W.	E-Mail:	Karis.Hastings@HoganLovells. 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	(N/A) b1. Application for License of New Station	
both questions a. and b. Choose only one	(N/A) b2. Application for Registration of New Domestic Receive–Only Station	
for 17a and only one for 17b.	• b3. Amendment to a Pending Application	
a1. Earth Station	• b4. Modification of License or Registration	
	b5. Assignment of License or Registration	
• a2. Space Station	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	
	b 14. Modification of Database Entry	
17c. Is a fee submitted with this application	on?	
● If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).	
Governmental Entity O Noncomme	ercial educational licensee	
T		
• Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite	Fransmit/Receive Earth	
Station		

18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending ap modification please enter only the file number:	pplication enter both fields, if this filing is a
(a) Call sign of station: E060276	(a) Date pending application was filed:	(b) File number: SESLIC2006072101234

TYPE OF SERVICE

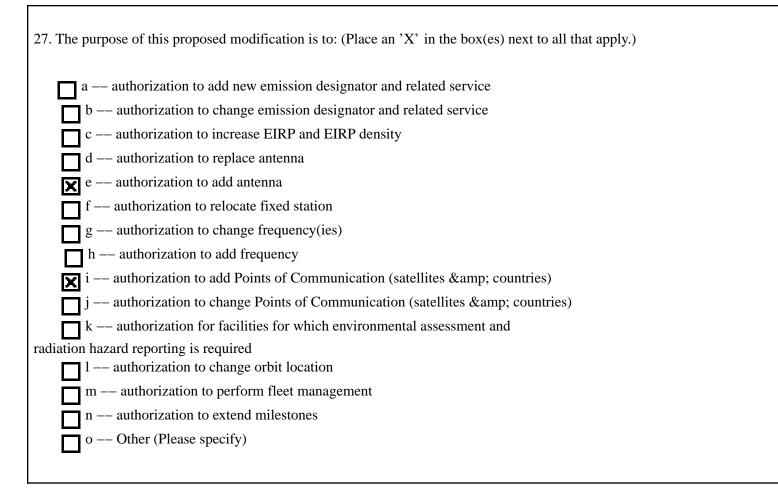
20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:			
 a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service 			
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 Not connected to a Public Switched Network Not connected to a Public Switched Network 			

24. FR	EQUENCY 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.Oth	ner (Please specify	apper and lower frequencies in MHz.)
F	requency 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
O d. Mobile Earth Station
• e. Geostationary Space Station
o 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 • No Radiation Haz Study
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes ⊚ No
30. Is the applicant an alien or the representative of an alien?	O Yes O No ⊚ N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O 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?	O Yes O 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?

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.	Yes	O 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 explination of circumstances.	O Yes	No No ■

O Yes O No ⊚ N/A

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

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?Permitted Space Station List

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.)

Sirius XM Radio Inc. seeks modification of its earth station license to add a new 3.7 meter C-band antenna for data communications between Canada and the U.S.

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.	О ^В
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.	O 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.)	
O Individual	
• Unincorporated Association	
• Partnership	
• Corporation	
• Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Patrick L. Donnelly	Executive Vice President and General Counsel
>	
	ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT EVOCATION OF ANY STATION AUTHORIZATION 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	ation Site					
E1: Site Identifier:	1	E5. Call Sign:	E060276			
E2: Contact Name	Steve Krautsack	E6. Phone Number:	(973) 764–4021			
E3. Street:	24 Vernon Crossing Road	E7. City:	Vernon			
		E8. County:	Sussex			
E4. State	NJ	E9. Zip Code	07462			
E10. Area of Operat	tion:	US				
E11. Latitude:	41 °12 '45.0 "N					
E12. Longitude:	74 °29 '39.0 "W					
E13. Lat/Lon Coord	linates are:	O NAD−27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	128.6 meters				

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 ^{No}	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 Coordination Report	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: ANIK-F2 ANIK-F2 111.1 W.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the following:							
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
POINTS OF COMMUNICATION (Destination Points)							
E25. Site Identifier: 1							
E26. Common Name:	E27. Country: Canada						

E25. Site Identifier: 1	
E26. Common Name:	E27. Country: USA

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)
1	Feeder 1	1	Andrew Corp.	ES37K–CLP2	3.7	42.5 dBi at 4.0
1	Feeder 1	1	Andrew Corp.	ES37K–CLP2	3.7	45.3 dBi at 6.0

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. At Level(n	oove Sea neters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna flar (Watts)		E39. Maximun Antenna Heig Above Rooftoj (meters)	nt EIRP for al
Feeder 1	0.0/0.0	4.0	130.8		0.0		0.45		0.0	41.8
FREQUENCY			•							ŀ
E28. Antenna Id	E43/44. Frequency Ba (MHz)	nds E45. T/R M	Iode	E46. Anto Polarizat L,R)		E47. E Design	mission ator		Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Feeder 1	3700 42	200 R		Horizonta Vertical	l and	125KG	7D	0.0		0.0
Feeder 1	5925.0 6425.0	Т		Horizonta Vertical	l and	125KG	7D	38.8		23.8
E50. Modulation entirety.) Digital I	on and Services Data QPSK	(If the complete	descriptio	on does no	t appear in	this box	x, please go to	o the o	end of the form	to view it in its

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	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)		
Feeder 1	Geostationary	3700 4200	53.0/139.0	149.17	37.1	252.55	10.33	0.0		
	Geostationary	5925.0 6425.0	53.0/139.0	149.17	37.1	252.55	10.33	-11.2		
REMOTE CC	ONTROL POIN	T LOCATION	•					ł		
E000158 NOTE: Plea	E61. Call SignE66. Phone NumberE000158(202) 380-4000NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.E66. Phone Number									
E62. Street Address 1500 Eckington Place NE										
E63. City Washington	l		E68. County DC	7		E67/68. State/Country DC/ USA		E64. Zip Code 20002		

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