



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Sirius XM Radio Inc.

Call Sign: E110172

Authorization Type: Modification of License

File Number: SES-MOD-20180614-01473

Non Common Carrier

Grant date: 10/31/2018

Expiration Date: 02/15/2027



Nature of Service: Satellite Digital Audio Radio Service

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	Blanket	United State and Territories VARIOUS,				NA	
2)	Blanket-IM	United State and Territories VARIOUS,				UNK	
3)	Fresno	4880 W. Jacquelyn St. Fresno, CA 93722	36°49'0.0"N	119°52'56.0"W	92	83	
4)	Rensselaer	400 Ridge Rd., Rensselaer, NY 12144	42°36'12.0"N	73°44'0.0"W	121	83	
5)	Tacoma	5913 6th St. Tacoma, WA 98422	47°15'48.0"N	122°20'53.0"W	129	83	
6)	Washington	4623 41st St., N.W. Washington, DC 20016	38°57'1.0"N	77°4'47.0"W	123	83	



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Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning February 15, 2012 (3 AM Eastern Standard Time) and ending February 15, 2027 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	2343.1250-2344.9650	OTHER	1M84G1W	Rx	0.00		Blanket-1		
2)	2341.2850-2343.1250	OTHER	1M84G1W	Rx	0.00		Blanket-1		
3)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	3.00		Blanket-1		
4)	2334.3850-2336.2250	OTHER	1M84G1W	Rx	0.00		Blanket-1		
5)	2332.5450-2334.3850	OTHER	1M84G1W	Rx	0.00		Blanket-1		
6)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	3.00		Blanket-1		
7)	2343.1250-2344.9650	OTHER	1M84G1W	Rx	0.00		Blanket-2		
8)	2341.2850-2343.1250	OTHER	1M84G1W	Rx	0.00		Blanket-2		
9)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	40.80		Blanket-2		
10)	2334.3850-2336.2250	OTHER	1M84G1W	Rx	0.00		Blanket-2		
11)	2332.5450-2334.3850	OTHER	1M84G1W	Rx	0.00		Blanket-2		
12)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	40.80		Blanket-2		
13)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	3.00		BlanketIM1		
14)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	40.80		BlanketIM2		
15)	2343.1250-2344.9650	OTHER	1M84G1W	Rx	0.00		XMALB013B		
16)	2341.2850-2343.1250	OTHER	1M84G1W	Rx	0.00		XMALB013B		
17)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	45.31		XMALB013B		
18)	2334.3850-2336.2250	OTHER	1M84G1W	Rx	0.00		XMALB013B		



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The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
19)	2332.5450-2334.3850	OTHER	1M84G1W	Rx	0.00		XMALB013B		
20)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	45.31		XMALB013B		
21)	2343.1250-2344.9650	OTHER	1M84G1W	Rx	0.00		XMFRE002A		
22)	2341.2850-2343.1250	OTHER	1M84G1W	Rx	0.00		XMFRE002A		
23)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	45.80		XMFRE002A		
24)	2334.3850-2336.2250	OTHER	1M84G1W	Rx	0.00		XMFRE002A		
25)	2332.5450-2334.3850	OTHER	1M84G1W	Rx	0.00		XMFRE002A		
26)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	45.80		XMFRE002A		
27)	2343.1250-2344.9650	OTHER	1M84G1W	Rx	0.00		XMSEA52D		
28)	2341.2850-2343.1250	OTHER	1M84G1W	Rx	0.00		XMSEA52D		
29)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	42.55		XMSEA52D		
30)	2334.3850-2336.2250	OTHER	1M84G1W	Rx	0.00		XMSEA52D		
31)	2332.5450-2334.3850	OTHER	1M84G1W	Rx	0.00		XMSEA52D		
32)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	42.55		XMSEA52D		
33)	2343.1250-2344.9650	OTHER	1M84G1W	Rx	0.00		XMWDC105		
34)	2341.2850-2343.1250	OTHER	1M84G1W	Rx	0.00		XMWDC105		
35)	2336.2250-2341.2850	OTHER	5M06D7W	Tx	43.80		XMWDC105		
36)	2334.3850-2336.2250	OTHER	1M84G1W	Rx	0.00		XMWDC105		
37)	2332.5450-2334.3850	OTHER	1M84G1W	Rx	0.00		XMWDC105		
38)	2324.2440-2328.2560	OTHER	4M01D7W	Tx	43.80		XMWDC105		

D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) Blanket to XM 3 satellite (S2617) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)



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D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 2) Blanket to XM 4 satellite (S2616) @ 115.25 degrees W.L. (U.S.-licensed) (DARS)
- 3) Blanket to XM-5 satellite (S2786) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 4) Rensselaer to XM 3 satellite (S2617) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 5) Rensselaer to XM 4 satellite (S2616) @ 115.25 degrees W.L. (U.S.-licensed) (DARS)
- 6) Rensselaer to XM-5 satellite (S2786) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 7) Fresno to XM 3 satellite (S2617) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 8) Fresno to XM 4 satellite (S2616) @ 115.25 degrees W.L. (U.S.-licensed) (DARS)
- 9) Fresno to XM-5 satellite (S2786) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 10) Tacoma to XM 3 satellite (S2617) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 11) Tacoma to XM 4 satellite (S2616) @ 115.25 degrees W.L. (U.S.-licensed) (DARS)
- 12) Tacoma to XM-5 satellite (S2786) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 13) Washington to XM 3 satellite (S2617) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)
- 14) Washington to XM 4 satellite (S2616) @ 115.25 degrees W.L. (U.S.-licensed) (DARS)
- 15) Washington to XM-5 satellite (S2786) @ 85.15 degrees W.L. (U.S.-licensed) (DARS)

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Blanket	Blanket-1	10000						
Max Gains(s): Maximum total input power at antenna flange (Watts) = Maximum aggregate output EIRP for all carriers (dBW) = 3.00								
Blanket	Blanket-2	2000						
Max Gains(s): Maximum total input power at antenna flange (Watts) = Maximum aggregate output EIRP for all carriers (dBW) = 40.80								
Blanket-IM	BlanketIM1	10000					67.1 AGL	
Max Gains(s): Maximum total input power at antenna flange (Watts) = Maximum aggregate output EIRP for all carriers (dBW) = 3.00								



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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
Blanket-IM	BlanketIM2	50000					67.1 AGL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =								
Maximum aggregate output EIRP for all carriers (dBW) = 40.80								
Rensselaer	XMALB013B	1				121	32.9 AGL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =								
Maximum aggregate output EIRP for all carriers (dBW) = 45.31								
Fresno	XMFRE002A	1				92	54.9 AGL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =								
Maximum aggregate output EIRP for all carriers (dBW) = 45.80								
Tacoma	XMSEA52D	2				129	67.1 AGL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =								
Maximum aggregate output EIRP for all carriers (dBW) = 42.55								
Washington	XMWDC105	1				123	63.1 AGL	
Max Gains(s):								
Maximum total input power at antenna flange (Watts) =								
Maximum aggregate output EIRP for all carriers (dBW) = 43.80								

F) Remote Control Point:

Blanket Sirius XM Radio, 1500 Eckington Place, NE
Washington, DC 20002
202-380-4000

Call Sign:



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F) Remote Control Point:

Blanket

Intelsat (attn: Back up remote site for Sirius XM Radio),
2875 Fork Creek Church Road

Call Sign:

Ellenwood, GA 30294

404-381-2320

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

90029 --- All transmissions from repeater stations are limited to communications with satellite digital audio radio receivers only.



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.