

COPY

READ INSTRUCTIONS CAREFULLY
BEFORE PROCEEDING

(1) LOCKBOX # 358210

FEDERAL COMMUNICATIONS COMMISSION
REMITTANCE ADVICE

FCC/MELLON AUG 27 2003

Approved by OMB
3060-0589
Page No. 1 of 1

SPECIAL USE
FCC USE ONLY

SECTION A - PAYER INFORMATION

(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card)
Wiley Rein & Fielding LLP

(3) TOTAL AMOUNT PAID (U.S. Dollars and cents)
\$2,435.00

(4) STREET ADDRESS LINE NO. 1
1776 K Street, NW

(5) STREET ADDRESS LINE NO. 2

(6) CITY
Washington

(7) STATE
DC

(8) ZIP CODE
20006

(9) DAYTIME TELEPHONE NUMBER (include area code)
202.719.7000

(10) COUNTRY CODE (if not in U.S.A.)

Received
SEP 16 2003
Policy Branch
International Bureau

FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED

(11) PAYER (FRN)
0002-1517-44

(12) PAYER (TIN)
0521289988

IF PAYER NAME AND THE APPLICANT NAME ARE DIFFERENT, COMPLETE SECTION B
IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C)

(13) APPLICANT NAME
Sirius Satellite Radio Inc.

(14) STREET ADDRESS LINE NO. 1
1221 Avenue of the Americas

(15) STREET ADDRESS LINE NO. 2
36th Floor

(16) CITY
New York

(17) STATE
NY

(18) ZIP CODE
10020

(19) DAYTIME TELEPHONE NUMBER (include area code)
212.584.5100

(20) COUNTRY CODE (if not in U.S.A.)

FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED

(21) APPLICANT (FRN)
0006-3457-30

(22) APPLICANT (TIN)
0521700207

COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET

(23A) CALL SIGN/OTHER ID

(24A) PAYMENT TYPE CODE
CXW

(25A) QUANTITY
1

(26A) FEE DUE FOR (PTC)
\$2,435.00

(27A) TOTAL FEE
\$2,435.00

FCC USE ONLY

(28A) FCC CODE 1

(29A) FCC CODE 2

(23B) CALL SIGN/OTHER ID

(24B) PAYMENT TYPE CODE

(25B) QUANTITY

(26B) FEE DUE FOR (PTC)

(27B) TOTAL FEE

FCC USE ONLY

(28B) FCC CODE 1

(29B) FCC CODE 2

SECTION D - CERTIFICATION

(30) CERTIFICATION STATEMENT
I, Heather O. Dixon, certify under penalty of perjury that the foregoing and supporting information is true and correct to the best of my knowledge, information and belief.

SIGNATURE _____ DATE 8/27/03

SECTION E - CREDIT CARD PAYMENT INFORMATION



▶ 1221 Avenue of the Americas
New York, NY 10020
tel// 212.584.5100
fax// 212.584.5200
sirius.com

August 26, 2003

BY HAND DELIVERY

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
236 Massachusetts Avenue, NE
Washington, DC 20002

Received

SEP 16 2003

**Policy Branch
International Bureau**

**Re: Request to Modify Existing Special Temporary Authority to Operate
Satellite DARS Terrestrial Repeaters and Request for Special
Temporary Authority to Operate Additional Satellite DARS
Terrestrial Repeaters**

Dear Ms. Dortch:

Sirius Satellite Radio Inc. ("Sirius") hereby requests that the Federal Communications Commission ("FCC" or "Commission") modify its existing special temporary authority ("STA") to operate satellite digital audio radio service ("satellite DARS") terrestrial repeaters located in Denver, Colorado; Detroit, Michigan; Houston, Texas; New Haven, Connecticut; Springfield, Massachusetts; and Washington, D.C. In addition, Sirius requests STA to operate 135 additional repeaters throughout the country.

The Commission initially granted Sirius STA to operate its Denver, Detroit, Houston, New Haven, Springfield and D.C. repeaters on September 17, 2001 and required Sirius to operate the repeaters "as specified in Exhibit A of the STA request."¹ In August 2002, Sirius requested that the FCC modify its STA to operate the Detroit, Springfield and D.C. repeaters.²

¹ *Sirius Satellite Radio Inc. Application for Special Temporary Authority to Operate Satellite Digital Audio Radio Service Complementary Terrestrial Repeaters, Order and Authorization, File No. SAT-STA-20010724-00064, 2001 FCC LEXIS 4931, DA 01-2171, ¶ 17 (Sept. 17, 2001) ("Sirius STA Order").*

² Letter from Robert D. Briskman, Sirius Satellite Radio Inc., to Marlene H. Dortch, Secretary, Federal Communications Commission (dated Aug. 15, 2002) ("August Request").

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Since filing the August Request, Sirius has identified a few “holes” and weaknesses in its repeater coverage, requiring changes to the RF configurations of the Denver, Detroit, Houston, New Haven and D.C. repeaters, and to the location and RF configuration of the Springfield repeater. Thus, Sirius herein requests that the FCC modify its STA to operate these five repeaters as specified in Exhibit 1.³

Sirius also has identified remaining gaps in its satellite coverage that must be filled using medium-powered repeaters and herein requests authority to install and operate such repeaters in 105 additional locations as specified in Exhibit 2. The operation of these repeaters will ensure continuous service to customers across the country. Finally, Sirius has identified a number of gaps in its satellite coverage that can be filled using low-power repeaters,⁴ and requests authority to install low-power repeaters in 30 locations as specified in Exhibit 2.

³ Sirius notes that, with respect to its proposed modifications to the technical specifications of its Detroit, Springfield and D.C. repeaters, the August Request is superseded by this request.

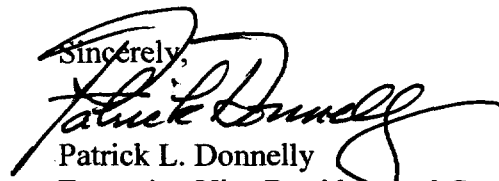
⁴ It is universally acknowledged that operation of satellite DARS repeaters with EIRPs at or below 2 kW (“low power repeaters”) will not cause interference to WCS facilities (which can operate at the identical power) nor to other authorized radiocommunications facilities. Metricom, Inc., Debtor-in-Possession, Comments, FCC File No. SAT-STA-20010724-00064, at 8 (filed Aug. 21, 2001) (“Metricom’s system can accommodate operations of SDARS terrestrial repeaters at power levels at or below 2 kW EIRP.”); Wireless Communications Association International, Inc., Comments in Opposition to Grant of STA Requests, FCC File No. SAT-STA-20010724-00064, at 5-6 (filed Aug. 21, 2001) (requesting imposition of a 2 kW EIRP limit); WorldCom, Inc., Opposition to STA Request, FCC File No. SAT-STA-20010724-00064, at 2 (filed Aug. 21, 2001) (“WorldCom would not object to repeaters that are limited to a maximum power of 2 kW.”); BellSouth Wireless Cable, Inc., Comments, FCC File No. SAT-STA-20010724-00064, at 30 (filed Aug. 21, 2001); AT&T Wireless Services, Inc., Comments, FCC File No. SAT-STA-20010724-00064, at 7 (filed Aug. 21, 2001) (“AWS and other WCS licensees have advocated that SDARS terrestrial repeaters be limited to no more than 2 kW EIRP.”).

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As a courtesy, Sirius contacted representatives for each entity holding a WCS license covering a market affected by its proposals (*i.e.*, WorldCom, AT&T Wireless, BellSouth, Comcast, BAL/RIVGAM, Metricom, Voicestream, Telecorp, Verizon Laboratories, NTELOS, Allegheny Communications, Cellutech, Stratos Offshore and Central States Communications) to notify them of its proposed modifications to its STA and its intent to seek STA to operate additional repeaters throughout the country. Sirius requested that the licensees respond by August 22, 2003. No WCS licensee commented or objected.

Sirius respectfully requests that the Commission modify its STA to operate the Denver, Detroit, Houston, New Haven, Springfield and D.C. repeaters and grant it STA to operate new repeaters in the locations specified in Exhibit 2. Grant of this STA request will not alter Sirius' obligations to protect WCS and other authorized radiocommunications facilities from interference.⁵ Further, such action will not affect the final characteristics of these and the other Sirius terrestrial repeaters, which remain subject to the outcome of the Commission's Further Notice of Proposed Rulemaking.⁶ Grant of this request, however, will serve the public interest by allowing Sirius to provide improved commercial service to customers.

If there are any questions about this submission, please do not hesitate to contact the undersigned.

Sincerely,

Patrick L. Donnelly
Executive Vice President and General
Counsel
Sirius Satellite Radio Inc.

Enclosure

⁵ *Sirius STA Order* ¶ 13.

⁶ *Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band*, Report and Order, Memorandum Opinion and Order, and Further Notice of Proposed Rulemaking, 12 FCC Rcd 5754 (1997).

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cc (w/encl): Stephen Duall
Robert Koppel, WorldCom
William Wiltshire, Counsel for AT&T Wireless
Neale Hightower, BellSouth
Christina Burrow, Counsel for Comcast
James Balitsos, BAL/RIVGAM
Tom W. Davidson, Counsel for Metricom
Dan Menser, Voicestream
Thomas Sullivan, Counsel for Telecorp
Donald Brittingham, Verizon Laboratories
Mary McDermott, NTELOS
Todd Rosenberg, Counsel for Allegheny Communications
Mia Lovink, Cellutech
Gregory Necaise, Stratos Offshore
Dana Frix, Counsel for Central States Communications

Sirius Satellite Radio
Exhibit I

Current STA Authorization

Market	No Of Sectors	Antenna Type	Sector 1				Sector 2				Sector 3				Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Longitude (W)	Latitude (N)	
Denver, CO	2	HMD8PV180-R05-H	180	150	0	6309.57	180	330	0	7585.78	-	-	-	-	104-59-22.06	39-44-52.04	598
Detroit, MI	2	HMD8V45-R05-H	45	90	0	199952.62	45	315	0	19952.62	-	-	-	-	83-14-35.42	42-28-28.15	389
Houston, TX	2	HMD8V90-R05-H	90	175	0	9772.37	90	295	0	9772.37	-	-	-	-	95-21-50.00	29-45-37.00	1060
New Haven, CT	1	HMD8PV180-R05-H	180	250	0	10715.19	-	-	-	-	-	-	-	72-55-20.00	41-18-33.00	243	
Springfield, MA	1	HMD8V90-R05-H	90	90	0	14125.38	-	-	-	-	-	-	-	72-35-33.50	42-06-09.50	445	
Washington, DC	1	HMD8V360-R05-H	Omni	-	-	6918.31	-	-	-	-	-	-	-	77-00-41.00	38-53-48.00	156	

Proposed STA Authorization

Market	No Of Sectors	Antenna Type	Sector 1				Sector 2				Sector 3				Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Longitude (W)	Latitude (N)	
Denver, CO	2	HMD8V360-R05-H	Omni	-	-	3200.00	Omni	-	-	3200.00	-	-	-	-	104-59-22.06	39-44-52.04	598
Detroit, MI	3	EMS-FR65-18-00NVL	65	75	5	2800.00	65	165	5	2800.00	65	315	0	6200.00	83-14-35.42	42-28-28.15	389
Houston, TX	2	HMD8PV180-R05-H	180	200	0	6000.00	180	270	0	6000.00	-	-	-	-	95-21-50.00	29-45-37.00	1060
New Haven, CT	2	EMS-FR90-17-00NL	90	205	0	4900.00	90	295	0	4900.00	-	-	-	-	72-55-20.00	41-18-33.00	243
Springfield, MA	2	HMD8PV180-R05-H	180	0	0	3500.00	180	0	0	3500.00	-	-	-	-	72-35-26.99	42-06-08.00	334
Washington, DC	2	HMD8PV360-R05-H	Omni	-	-	3500.00	Omni	-	-	3500.00	-	-	-	-	77-00-41.00	38-53-48.00	156

Sirius Satellite Radio
Exhibit 2

Market	No Of Setors	Antenna Type	Sector 1				Sector 2				Sector 3				Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Longitude (W)	Latitude (N)	
Allentown, PA	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	75-28-10.50	40-36-10.20	204	
Ann Arbor, MI	2	HMD8V120-R05-H	120	150	0	180.00	120	340	0	180.00	-	-	-	83-44-32.33	42-16-40.26	270	
Arlington, TX	1	EMS FR90-17-00NVL	90	20	0	7000.00	-	-	-	-	-	-	-	97-06-10.08	32-45-42.84	198	
Asheville, NC	1	EMS FR90-17-00NVL	90	140	0	7000.00	-	-	-	-	-	-	-	82-33-21.82	35-35-47.93	156	
Atlanta, GA	1	EMS FR90-17-00NVL	90	220	0	7000.00	-	-	-	-	-	-	-	84-25-30.26	33-39-35.60	199	
Allanta, GA	1	EMS FR90-17-00NVL	90	100	0	7000.00	-	-	-	-	-	-	-	84-15-19.00	33-43-03.00	150	
Atlantic City/Cape May, NJ	1	EMS FR90-17-00NVL	90	60	0	7000.00	-	-	-	-	-	-	-	74-26-49.83	39-21-02.86	429	
Augusta, GA	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	81-57-52.43	33-28-30.07	127	
Bakersfield, CA	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	119-01-4.56	35-22-23.67	150	
Baton Rouge, LA	1	EMS FR90-17-00NVL	90	90	0	7000.00	-	-	-	-	-	-	-	91-11-17.45	30-27-05.47	310	
Boise, ID	1	EMS FR90-17-00NVL	90	30	0	7000.00	-	-	-	-	-	-	-	116-12-08.70	43-36-53.07	267	
Boston, MA	1	EMS FR90-17-00NVL	90	235	0	7000.00	-	-	-	-	-	-	-	71-14-07.80	42-20-51.65	200	
Boston, MA	1	EMS FR90-17-00NVL	90	180	0	7000.00	-	-	-	-	-	-	-	71-02-30.82	42-16-26.65	210	
Bridgeport, CT	2	EMS RV80-18-00NV	80	50	0	360.00	80	310	0	360.00	-	-	-	73-11-19.05	41-10-42.35	240	
Charleston, SC	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	79-56-12.81	32-47-10.42	154	
Charleston, WV	1	EMS FR90-17-00NVL	90	230	0	7000.00	-	-	-	-	-	-	-	81-37-58.37	38-21-02.68	384	
Chattanooga, TN	1	EMS FR90-17-00NVL	90	140	0	7000.00	-	-	-	-	-	-	-	85-18-41.84	35-02-56.86	300	
Chicago, IL	1	EMS FR90-17-00NVL	90	165	0	7000.00	-	-	-	-	-	-	-	87-35-25.68	41-48-24.88	250	
Chicago, IL	1	EMS FR90-17-00NVL	90	290	0	7000.00	-	-	-	-	-	-	-	87-51-34.67	41-59-27.33	130	
Colorado Springs, CO	1	EMS FR90-17-00NVL	90	30	0	7000.00	-	-	-	-	-	-	-	104-49-31.14	38-49-57.18	230	
Columbia, SC	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	81-01-53.60	34-00-07.80	290	
Corpus Christi, TX	1	EMS FR90-17-00NVL	90	250	0	7000.00	-	-	-	-	-	-	-	97-23-29.14	27-47-55.45	411	
Danbury, CT	1	EMS FR90-17-00NVL	90	260	0	7000.00	-	-	-	-	-	-	-	73-26-41.28	41-23-59.64	84	
Denver, CO	1	EMS FR90-17-00NVL	90	170	0	7000.00	-	-	-	-	-	-	-	104-53-49.55	39-37-49.74	229	
Des Moines, IA	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	93-37-32.70	41-35-14.80	476	
Detroit, MI	2	EMS RV80-18-00NV	80	125	4	360.00	80	210	0	360.00	-	-	-	83-13-10.15	42-19-13.13	135	
Detroit, MI	2	EMS RV80-18-00NV	80	50	0	360.00	80	280	0	360.00	-	-	-	83-03-50.80	42-22-20.00	190	
Detroit, MI	2	EMS RV80-18-00NV	80	90	0	360.00	80	245	0	360.00	-	-	-	83-05-01.95	42-29-16.80	120	
El Paso, TX	1	EMS FR90-17-00NVL	90	30	0	7000.00	-	-	-	-	-	-	-	106-29-08.41	31-45-37.47	296	
Flint, MI	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	83-41-24.14	43-00-56.46	260	
Fresno, CA	1	EMS FR90-17-00NVL	90	220	0	7000.00	-	-	-	-	-	-	-	119-47-40.75	36-44-16.47	173	
Ft Meyers, FL	2	EMS RV80-18-00NV	80	130	0	360.00	80	310	0	360.00	-	-	-	81-47-26.00	26-33-53.00	154	
Ft Wayne, IN	1	EMS FR90-17-00NVL	90	320	0	7000.00	-	-	-	-	-	-	-	85-08-19.62	41-04-41.24	442	
Galveston, TX	1	EMS FR90-17-00NVL	90	230	0	7000.00	-	-	-	-	-	-	-	94-47-21.45	29-18-24.50	358	
Glendale, CA	2	EMS RV80-18-00NV	80	70	0	80.00	80	330	0	80.00	-	-	-	118-15-18.05	34-09-17.84	80	
Grand Rapids, MI	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	85-40-24.50	42-57-50.10	340	
Greenville, SC	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	82-23-59.13	34-50-56.55	132	
Hilton Head, SC	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	80-43-02.00	32-10-00.99	70	
Houston, TX	1	EMS FR90-17-00NVL	90	350	0	7000.00	-	-	-	-	-	-	-	95-23-48.22	29-56-16.20	188	
Huntsville, AL	1	EMS FR90-17-00NVL	90	190	0	7000.00	-	-	-	-	-	-	-	86-35-11.82	34-43-51.59	148	
Jersey City, NJ	1	EMS FR90-17-00NVL	90	260	0	7000.00	-	-	-	-	-	-	-	74-02-03.89	40-42-57.09	548	
Kokomo, IN	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	86-06-30.78	40-27-23.47	78	
Lakeland-Winter Haven, FL	1	EMS FR90-17-00NVL	90	180	0	7000.00	-	-	-	-	-	-	-	81-57-19.65	28-02-37.97	128	
Lancaster, PA	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	76-18-11.29	40-02-13.22	195	
Lansing, MI	1	EMS FR90-17-00NVL	90	120	0	7000.00	-	-	-	-	-	-	-	84-33-07.21	42-43-56.76	345	
Las Vegas, NV	1	EMS RV80-18-00NV	80	180	0	100.00	-	-	-	-	-	-	-	115-10-19.33	36-06-02.24	250	
Lexington, KY	2	Andrew HMD8V360-R05-H	Omni	0	0	2000.00	Omni	0	0	2000.00	-	-	-	84-30-01.50	38-02-50.80	333	
Lincoln, NE	1	EMS FR90-17-00NVL	90	330	0	7000.00	-	-	-	-	-	-	-	96-42-00.90	40-48-32.88	398	
Los Angeles, CA	1	EMS RV80-18-00NV	80	135	0	800.00	-	-	-	-	-	-	-	117-45-00.18	33-39-32.54	148	
Los Angeles, CA	2	EMS RV80-18-00NV	80	15	0	800.00	80	130	0	800.00	-	-	-	118-08-30.20	33-48-14.50	155	
Los Angeles, CA	1	EMS RV80-18-00NV	80	230	0	800.00	-	-	-	-	-	-	-	118-23-05.38	33-56-44.38	180	
Los Angeles, CA	2	EMS FR65-18-00NVL	65	80	0	3500.00	65	200	0	3500.00	-	-	-	117-22-20.00	33-59-09.00	140	
Los Angeles, CA	1	EMS FR90-17-00NVL	90	280	0	7000.00	-	-	-	-	-	-	-	117-32-32.82	33-52-51.943	208	
Los Angeles, CA	1	EMS FR90-17-00NVL	90	100	0	7000.00	-	-	-	-	-	-	-	117-43-33.79	34-02-37.96	146	
Los Angeles, CA	1	EMS FR90-17-00NVL	90	45	0	7000.00	-	-	-	-	-	-	-	118-08-37.64	34-08-32.51	140	
Los Angeles, CA	1	EMS FR90-17-00NVL	90	130	0	7000.00	-	-	-	-	-	-	-	117-55-30.39	33-48-37.79	140	
Los Angeles, CA	1	EMS FR90-17-00NVL	90	143	0	7000.00	-	-	-	-	-	-	-	117-52-27.79	33-37-04.91	200	
Los Angeles, CA	1	EMS FR90-17-00NVL	90	110	0	7000.00	-	-	-	-	-	-	-	117-48-49.79	33-51-49.94	250	
Lowell, MA	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	71-18-44.06	42-38-57.14	220	

Sirius Satellite Radio
Exhibit 2

Market	No Of Sectors	Antenna Type	Sector 1			Sector 2			Sector 3			Coordinates		Antenna Height (feet)		
			Antenna Beamwidth	Orientation	Down tilt	ERP (Watts)	Antenna Beamwidth	Orientation	Down tilt	ERP (Watts)	Antenna Beamwidth	Orientation	Down tilt		ERP (Watts)	Longitude (W)
Macon, GA	1	EMS FR90-17-00NVL	90	180	0	7000.00	-	-	-	-	-	-	-	83-37-37.40	32-50-13.73	125
Madison, WI	1	Andrew HMD8V360-R05-H	Omnit	0	0	180.00	-	-	-	-	-	-	-	86-23-07.58	43-04-25.54	190
Manchester, MA	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	70-43-35.08	42-35-35.81	344
Marin County, CA	1	EMS FR90-17-00NVL	90	330	0	7000.00	-	-	-	-	-	-	-	122-43-34.03	37-54-48.87	320
Miami, FL	1	EMS FR90-17-00NVL	90	290	0	7000.00	-	-	-	-	-	-	-	80-19-25.81	25-49-24.64	205
Miami, FL	1	EMS FR90-17-00NVL	90	255	0	7000.00	-	-	-	-	-	-	-	80-21-20.81	25-35-46.62	220
Minneapolis, MN	1	EMS FR90-17-00NVL	90	220	0	7000.00	-	-	-	-	-	-	-	93-13-34.20	44-51-21.12	232
Mobile, AL	1	HMD8PV180-R05-H	180	270	0	320.00	-	-	-	-	-	-	-	88-02-29.22	30-41-34.80	507
Modesto, CA	1	EMS FR90-17-00NVL	90	105	0	7000.00	-	-	-	-	-	-	-	121-00-20.98	37-38-34.73	150
Naples, FL	1	Andrew HMD8V360-R05-H	Omnit	0	0	180.00	-	-	-	-	-	-	-	81-45-50.00	26-09-18.99	110
New Haven/Meriden, CT	1	EMS FR90-17-00NVL	90	110	0	7000.00	-	-	-	-	-	-	-	72-48-16.64	41-33-03.65	190
New Orleans, LA	1	EMS FR90-17-00NVL	90	270	0	7000.00	-	-	-	-	-	-	-	90-11-59.67	29-54-52.97	175
New York, NY	1	EMS FR90-17-00NVL	90	100	0	7000.00	-	-	-	-	-	-	-	73-48-51.83	40-42-52.63	239
New York, NY	1	EMS FR90-17-00NVL	90	75	0	7000.00	-	-	-	-	-	-	-	73-29-28.42	40-49-18.98	178
New York, NY	1	EMS FR90-17-00NVL	90	90	0	7000.00	-	-	-	-	-	-	-	73-21-51.36	40-42-32.75	175
New York, NY	2	EMS FR65-18-00NVL	65	30	0	7000.00	330	0	7000.00	-	-	-	-	74-00-25.74	41-02-56.88	300
New York, NY	1	EMS FR90-17-00NVL	90	160	0	7000.00	-	-	-	-	-	-	-	73-58-26.76	40-40-13.44	212
New York, NY	1	EMS FR90-17-00NVL	90	135	0	7000.00	-	-	-	-	-	-	-	73-47-48.12	40-40-00.12	150
Newark / East Orange, NJ	1	EMS FR90-17-00NVL	90	295	0	7000.00	-	-	-	-	-	-	-	74-13-31.31	40-45-45.88	98
Newark / Elizabeth, NJ	1	EMS FR90-17-00NVL	90	250	0	7000.00	-	-	-	-	-	-	-	74-12-59.48	40-39-42.63	243
Newark, NJ	1	EMS FR90-17-00NVL	90	250	0	7000.00	-	-	-	-	-	-	-	74-11-21.48	40-43-53.32	165
Newark, NJ	1	EMS FR90-17-00NVL	90	290	0	7000.00	-	-	-	-	-	-	-	74-11-09.04	40-45-08.03	239
North Hollywood/Burbank, CA	1	EMS RV60-18-00NV	80	330	0	800.00	-	-	-	-	-	-	-	118-22-11.00	34-08-44.00	90
Oakland, CA	1	EMS FR90-17-00NVL	90	80	0	7000.00	-	-	-	-	-	-	-	122-15-54.63	37-48-38.24	404
Omaha, NE	1	EMS FR90-17-00NVL	90	45	0	7000.00	-	-	-	-	-	-	-	95-56-13.54	41-15-34.23	634
Orlando, FL	1	EMS RV60-18-00NV	80	130	0	800.00	-	-	-	-	-	-	-	81-20-17.6	28-27-15.7	90
Palm Beach, FL	1	EMS FR90-17-00NVL	90	10	0	7000.00	-	-	-	-	-	-	-	80-04-8.46	26-27-37.50	165
Paramus, NJ	2	EMS FR90-17-00NVL	90	160	0	800.00	315	0	800.00	-	-	-	-	74-04-24.30	46-57-41.52	165
Pebble Beach, CA	1	EMS FR90-17-00NVL	90	270	0	7000.00	-	-	-	-	-	-	-	121-55-19.00	36-35-10.00	45
Pensacola, FL	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	87-12-53.48	30-24-37.41	125
Philadelphia, PA	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	75-12-11.16	40-00-11.52	280
Philadelphia, PA	1	EMS FR90-17-00NVL	90	356	0	7000.00	-	-	-	-	-	-	-	75-10-27.74	40-01-34.85	160
Philadelphia, PA	1	EMS FR90-17-00NVL	90	215	0	7000.00	-	-	-	-	-	-	-	75-13-50.88	39-54-01.80	151
Pittsburgh, PA	1	EMS FR90-17-00NVL	90	180	0	7000.00	-	-	-	-	-	-	-	80-06-03.80	40-23-27.75	195
Port Chester, NY	1	EMS FR65-18-00NVL	65	50	0	7000.00	-	-	-	-	-	-	-	73-40-26.00	41-00-19.00	80
Portland, ME	1	EMS FR90-17-00NVL	90	240	0	7000.00	-	-	-	-	-	-	-	70-15-13.24	43-39-40.37	200
Providence, RI	1	EMS FR90-17-00NVL	90	245	0	7000.00	-	-	-	-	-	-	-	71-27-46.79	41-43-40.64	204
Raleigh-Durham, NC	1	Andrew HMD8V360-R05-H	Omnit	0	0	180.00	-	-	-	-	-	-	-	75-55-29.37	40-20-10.35	275
Reading, PA	1	EMS FR90-17-00NVL	90	270	0	7000.00	-	-	-	-	-	-	-	117-12-02.86	34-04-04.95	190
Redlands, CA	1	EMS FR90-17-00NVL	90	110	0	7000.00	-	-	-	-	-	-	-	119-48-56.23	39-31-31.00	250
Reno, NV	1	Andrew HMD8V360-R05-H	Omnit	0	0	180.00	-	-	-	-	-	-	-	96-49-06.36	32-55-22.14	225
Richardson, TX	1	EMS FR90-17-00NVL	90	20	0	7000.00	-	-	-	-	-	-	-	79-56-25.65	37-16-21.97	320
Roanoke, VA	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	117-17-35.6	34-06-23.64	182
San Bernardino, CA	1	EMS FR90-17-00NVL	90	80	0	7000.00	-	-	-	-	-	-	-	122-26-51.10	37-38-44.23	202
San Diego, CA	1	EMS FR90-17-00NVL	90	330	0	7000.00	-	-	-	-	-	-	-	117-07-35.88	32-46-27.82	187
San Francisco, CA	1	EMS FR90-17-00NVL	90	165	0	7000.00	-	-	-	-	-	-	-	122-01-44.28	37-58-29.08	201
San Francisco, CA	1	EMS FR90-17-00NVL	90	290	0	7000.00	-	-	-	-	-	-	-	122-09-29.13	37-26-56.22	282
San Francisco, CA	1	EMS FR90-17-00NVL	90	150	0	7000.00	-	-	-	-	-	-	-	122-05-34.13	37-36-47.25	139
San Francisco, CA	1	EMS FR90-17-00NVL	90	180	0	7000.00	-	-	-	-	-	-	-	121-57-00.22	37-21-56.62	125
San Jose, CA	1	EMS FR90-17-00NVL	90	140	0	7000.00	-	-	-	-	-	-	-	119-50-53.99	34-24-46.00	207
Santa Barbara, CA	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	122-42-29.54	38-26-13.02	140
Santa Rosa, CA	1	EMS FR90-17-00NVL	90	90	0	7000.00	-	-	-	-	-	-	-	82-34-46.15	27-19-18.93	250
Sarasota, FL	1	EMS FR90-17-00NVL	90	90	0	7000.00	-	-	-	-	-	-	-	75-39-54.81	41-24-32.15	165
Scranton, PA	1	EMS FR90-17-00NVL	90	0	0	7000.00	-	-	-	-	-	-	-	122-11-46.22	47-36-53.23	358
Seattle, WA	1	EMS FR90-17-00NVL	90	110	0	7000.00	-	-	-	-	-	-	-	93-44-52.49	32-30-50.25	364
Shreveport, LA	1	EMS FR90-17-00NVL	90	300	0	7000.00	-	-	-	-	-	-	-	117-25-16.63	47-39-28.91	288
Spokane, WA	1	EMS FR90-17-00NVL	90	120	0	7000.00	-	-	-	-	-	-	-	73-32-07.60	41-03-02.57	200
Stamford, CT	1	EMS FR90-17-00NVL	90	35	0	7000.00	-	-	-	-	-	-	-	73-26-04.20	41-06-52.20	220
Stockton, CA	1	EMS FR90-17-00NVL	90	250	0	7000.00	-	-	-	-	-	-	-	121-17-12.15	37-57-11.92	142

Sirius Satellite Radio
Exhibit 2

Market	No Of Sectors	Antenna Type	Sector 1				Sector 2				Sector 3				Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Longitude (W)	Latitude (N)	
Tacoma, WA	2	EMS FR65-18-00NVL	65	170	0	3500.00	65	330	0	3500.00	-	-	-	-	122-26-16.91	47-15-07.84	215
Toledo, OH	2	Andrew HMD8V360-R05-H	Omni	0	0	2000.00	Omni	0	0	2000.00	-	-	-	-	83-32-07.10	41-39-04.00	400
Trenton, NJ	2	HMD8PV180-R05-H	180	20	0	7000.00	180	20	0	7000.00	-	-	-	-	74-46-03.54	40-13-12.780	180
Tyson's Corner, VA	2	EMS FR90-17-00NVL	90	100	0	7000.00	90	290	0	7000.00	-	-	-	-	77-13-43.70	38-55-22.20	165
Vallejo-Fairfield, CA	1	EMS FR90-17-00NVL	90	45	0	7000.00	-	-	-	-	-	-	-	-	122-15-23.70	38-06-04.3	65
Ventura, CA	1	EMS FR90-17-00NVL	90	30	0	7000.00	-	-	-	-	-	-	-	-	119-17-37.94	34-16-36.26	120
Washington DC 1	1	EMS FR90-17-00NVL	90	150	0	7000.00	-	-	-	-	-	-	-	-	76-56-59.00	38-51-38.00	220
Washington DC 2	1	EMS FR90-17-00NVL	90	180	0	7000.00	-	-	-	-	-	-	-	-	77-02-34.08	38-48-44.60	155
Washington DC 3	1	EMS FR90-17-00NVL	90	90	0	7000.00	-	-	-	-	-	-	-	-	78-52-57.10	38-59-26.60	205
Washington DC 4	1	EMS FR90-17-00NVL	90	315	0	7000.00	-	-	-	-	-	-	-	-	77-08-30.08	39-00-56.60	255
Washington DC 5	1	EMS FR90-17-00NVL	90	190	0	7000.00	-	-	-	-	-	-	-	-	77-10-57.07	38-46-51.60	160
Washington DC 6	1	EMS FR90-17-00NVL	90	270	0	7000.00	-	-	-	-	-	-	-	-	77-21-20.05	38-56-57.60	218
Waterbury, CT	1	Andrew HMD8V360-R05-H	Omni	0	0	180.00	-	-	-	-	-	-	-	-	73-02-43.02	41-33-43.00	131
West Palm Beach, FL	2	HMD8PV180-R05-H	180	60	0	150.00	180	240	0	150.00	-	-	-	-	80-04-34.00	26-41-28.00	200
Wichita, KS	1	EMS FR90-17-00NVL	90	10	0	7000.00	-	-	-	-	-	-	-	-	97-20-17.82	37-41-23.57	325
Worcester, MA	2	Andrew HMD8V360-R05-H	Omni	0	0	2000.00	Omni	0	0	2000.00	-	-	-	-	71-48-12.9	42-15-47.66	333