



Wiley Rein & Fielding LLP

Stamp and Return

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WASHINGTON, DC 20006
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FCC/MELLON

AUG 27 2002

August 27, 2002

VIA HAND DELIVERY

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
c/o International Bureau—Satellites
P.O. Box 358210
Pittsburgh, PA 15251-5210

**Re: Request to Modify Special Temporary Authority to Operate Satellite
DARS Terrestrial Repeaters (filed June 14, 2002)**

Dear Ms. Dortch:

On June 14, 2002, Sirius Satellite Radio Inc. ("Sirius") filed a request to modify its special temporary authority ("STA") to operate satellite digital audio radio service terrestrial repeaters. Subsequently, on August 12, 2002, International Bureau staff informed Sirius that its request to modify its STA should have been submitted as a fee filing and requested that Sirius resubmit the request along with an FCC Form 159 and the appropriate filing fee. Sirius hereby resubmits its June 14, 2002 request along with an FCC Form 159 and a check in the amount of \$2305.00, made payable to the FCC, to cover the requisite filing fee.

If there are any questions about this submission, please contact the undersigned.

Sincerely,

Heather O. Dixon

Counsel for Sirius Satellite Radio Inc.

cc (w/encl.): Donald Abelson
Ron Repasi
Chris Murphy
Jennifer Gilsenan
Rosalee Chiara
Rockie Patterson
Stephen Duall

READ INSTRUCTIONS CAREFULLY
BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION
REMITTANCE ADVICE

Approved by OMB
3060-0589
Page No. of

(1) LOCKBOX # 358210

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)

\$2,305.00

(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.)

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)

\$2,305.00

(27A) TOTAL FEE

\$2,305.00

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 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 Heather O. Dixon DATE 8/27/02

SECTION E - CREDIT CARD PAYMENT INFORMATION

(31)

MASTERCARD/VISA ACCOUNT NUMBER:

EXPIRATION
DATE:

MASTERCARD

VISA

I hereby authorize the FCC to charge my VISA or MASTERCARD for the service(s)/authorization herein described.

SIGNATURE Heather O. Dixon

DATE 8/27/02

Stamp and Return



June 14, 2002

Sirius Satellite Radio
1221 Avenue of the Americas
New York, NY 10020
tel 212 584 5100
fax 212 584 5200
www.siriusradio.com

BY HAND DELIVERY

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

RECEIVED

JUN 14 2002

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: Request to Modify Special Temporary Authority to Operate Satellite DARS Terrestrial Repeaters; *Sirius Satellite Radio, Inc. Application for Special Temporary Authority to Operate Satellite Digital Audio Radio Service Complementary Terrestrial Repeaters*, File No. SAT-STA-20010724-00064

Dear Ms. Dortch:

Sirius Satellite Radio Inc. ("Sirius") hereby requests that the Commission modify its special temporary authority ("STA") to operate certain of its satellite DARS terrestrial repeaters with Equivalent Isotropically Radiated Powers ("EIRPs") greater than 2kW.

On July 24, 2001, Sirius requested STA to begin commercial service using its satellite DARS terrestrial repeater network. This request included an Exhibit providing technical information—such as, geographic coordinates, total EIRP, antenna orientation, antenna radiation pattern and any applicable vertical downtilt—for each planned terrestrial repeater with an EIRP greater than 2kW. On September 17, 2001, the Commission granted Sirius STA to operate its satellite DARS terrestrial repeater network.¹ The Commission granted Sirius STA to operate its terrestrial repeaters with EIRPs greater than 2kW "as specified in Exhibit A of the STA request."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 (Sept. 17, 2001) ("*Sirius STA Order*").

² *Id.* ¶ 17. Sirius subsequently requested that the FCC modify its authority to operate one of its terrestrial repeaters in Detroit, Michigan and one of its terrestrial

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Sirius recently determined that the technical specifications of the terrestrial repeaters listed in the Exhibit attached hereto must be altered. These modifications will permit Sirius to implement transmit diversity and are designed to enhance the performance of Sirius' satellite DARS system. Sirius notes that, in all but two instances, the proposed changes will reduce the composite transmitter power at a location. Thus, Sirius requests that the Commission modify its STA to permit it to operate these repeaters as set forth in the attached Exhibit.

In granting Sirius STA, the FCC required Sirius to protect operational WCS stations from interference caused by its repeaters.³ Because WorldCom currently operates WCS facilities in Memphis, Tennessee, one of the locations in which Sirius operates a repeater whose technical specifications it proposes to modify, Sirius notified WorldCom of its proposed changes to the Memphis repeater. WorldCom indicated that it has no objections to these modifications.

As for the other locations in which Sirius operates a repeater whose technical specifications it proposes to alter, no WCS licensee (including WorldCom) has constructed or is operating facilities in these markets.⁴ Thus,

(Continued . . .)

repeaters in Las Vegas, Nevada. Letter from Carl R. Frank, Wiley Rein & Fielding LLP, to William F. Caton, Acting Secretary, Federal Communications Commission (dated Feb. 11, 2002). The Commission granted that request on March 19, 2002.

³ *Sirius STA Order* ¶ 13.

⁴ WCS licensees other than WorldCom have acknowledged that "WCS licensees are still in the design phase of their networks and are not likely to have significant deployment within the 18-month compensation period" proposed by the Commission's November 1, 2001 Public Notice requesting further comments on certain issues regarding the authorization of SDARS terrestrial repeater networks. Comments of the WCS Coalition, *Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band*, IB Docket No. 95-91, at 14 (Dec. 14, 2001). WorldCom has indicated that it currently provides WCS service only in Memphis, Tennessee. WorldCom Opposition to STA Request, *XM Radio, Inc. Request for Special Temporary Authorization and Sirius Satellite Radio, Inc. Request for Special Temporary Authority*, IB Docket No. 95-

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Sirius' proposed modifications to its terrestrial repeaters in these locations do not raise any interference issues. However, as a courtesy, Sirius contacted representatives for each entity holding a WCS license covering these markets (*i.e.*, WorldCom, AT&T Wireless, BellSouth, BAL/RIVGAM, Metricom, Voicestream, Telecorp, Comcast, Verizon Laboratories, NTELOS, McLeodUSA and Allegheny Communications) to notify them of its proposed modifications to its STA. WorldCom, AT&T Wireless and BellSouth notified Sirius that they have no objections to the proposed changes to these repeaters. To date, Sirius has received no reply from BAL/RIVGAM, Metricom, Voicestream, Telecorp, Comcast, Verizon Laboratories, NTELOS, McLeodUSA or Allegheny Communications.

Sirius respectfully requests that the Commission modify its STA as indicated in the attached Exhibit. Such action will assist Sirius in its provision of commercial service to customers and will not alter its obligations to protect WCS and other authorized radiocommunications facilities from interference. Further, the final characteristics of these and the other Sirius terrestrial repeaters remain subject to the outcome of the Further Notice of Proposed Rulemaking in the above-captioned proceeding.

(Continued . . .)

91, File Nos. SAT-STA-20010712-00063 and SAT-STA-20010724-00064, at 2
(Aug. 21, 2001).

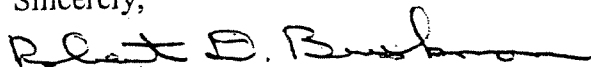
Ms. Marlene H. Dortch

June 14, 2002

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

Sincerely,



Robert D. Briskman
Technical Executive
Sirius Satellite Radio Inc.

Enclosure

cc (w/encl): Donald Abelson
Ron Repasi
Chris Murphy
Jennifer Gilsenan
Rockie Patterson
Rosalee Chiara
Stephen Duall
Michael Ray, WorldCom
William Wiltshire, *Counsel for AT&T Wireless*
Charles Featherstun, BellSouth
James Balitsos, BAL/RIVGAM
Tom Davidson, *Counsel for Metricom*
Dan Menser, Voicestream
Eric DeSilva, *Counsel for Telecorp and NTELOS*
Christina Burrow, *Counsel for Comcast*
Mark Wegleitner, Verizon Laboratories
David Conn, McLeodUSA
Paul Posner, Allegheny Communications

Market	No Of Sectors	Antenna Type	Sector 1			Sector 2			Sector 3			Coordinates		Antenna Height (feet)
			Antenna Beamwidth	Orientation	Down tilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Down tilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Down tilt	
Austin	1	HMD8V120-R05-H	120	175	0	12589.25	-	-	-	-	-	97-44-29.00	30-17-00.00	292
Birmingham	1	HMD8V360-R05-H	Omni	-	-	8241.38	-	-	-	-	-	86-48-30.00	33-31-04.00	537
Charlotte	1	HMD8V180-R05-H	180	65	0	10471.29	-	-	-	-	-	80-50-49.74	35-13-29.49	524
Cincinnati	2	HMD8V180-R05-H	180	170	0	8511.38	350	0	7585.78	-	-	84-30-51.00	39-06-24.00	308
Cleveland	2	HMD8V120-R05-H	120	70	0	7585.78	260	0	6606.93	-	-	81-41-34.37	41-29-58.00	656
Columbus	1	HMD8V360-R05-H	Omni	-	-	5370.32	-	-	-	-	-	96-47-52.23	32-47-8.95	489
Dallas	2	HMD8V120-R05-H	120	80	0	8511.38	260	0	8511.38	-	-	97-19-46.00	32-45-11.00	525
Denver/Boulder	1	HMD8V180-R05-H	180	240	0	10000.00	-	-	-	-	-	104-59-22.06	39-44-52.04	598
Denver/Boulder	2	HMD8V180-R05-H	180	150	0	6309.57	330	0	7585.78	-	-	83-02-51.00	42-19-50.00	648
Denver/Boulder	1	HMD8V120-R05-H	120	330	6	16218.10	-	-	-	-	-	104-59-22.06	39-44-52.04	598
Detroit	1	HMD8V120-R05-H	120	330	6	16218.10	-	-	-	-	-	104-59-22.06	39-44-52.04	598
Houston	2	HMD8V180-R05-H	90	175	0	9772.37	90	295	0	9772.37	-	95-21-50.00	29-45-37.00	1060
Houston	2	HMD8V180-R05-H	90	115	0	12302.69	90	205	0	11481.54	-	94-34-57.00	39-06-12.00	558
Kansas City	2	HMD8V90-R05-H	180	20	0	4466.84	180	200	0	4570.88	-	115-08-31.00	36-10-10.10	466
Las Vegas	2	HMD8V120-R05-H	120	135	7	15848.90	-	-	-	-	-	92-16-32.46	34-44-37.67	586
Las Vegas	1	HMD8V360-R05-H	Omni	-	-	5623.41	-	-	-	-	-	118-45-22.00	34-02-58.00	868
Little Rock	1	HMD8V120-R05-H	120	0	3	3715.35	120	120	3	3715.35	3	85-45-28.00	36-15-20.00	560
Los Angeles	3	HMD8V120-R05-H	Omni	-	-	5623.41	-	-	-	-	-	85-45-28.00	36-15-20.00	560
Los Angeles	1	HMD8V360-R05-H	Omni	-	-	21379.63	-	-	-	-	-	90-2-59.80	35-6-39.70	358
Los Angeles	1	HMD8V360-R05-H	Omni	-	-	15488.17	-	-	-	-	-	87-54-06.69	43-02-17.95	588
Milwaukee	1	HMD8V180-R05-H	180	310	0	15488.17	-	-	-	-	-	93-16-16.00	44-58-36.00	775
Minneapolis	2	HMD8V120-R05-H	120	90	0	5370.32	120	270	0	4466.84	-	93-05-43.00	44-56-52.00	500
Minneapolis	1	HMD8V90-R05-H	90	135	0	8912.51	-	-	-	-	-	88-46-55.09	36-09-48.85	868
Minneapolis	1	HMD8V360-R05-H	Omni	-	-	6165.95	-	-	-	-	-	90-04-16.00	29-57-00.00	626
Nashville	1	HMD8V360-R05-H	Omni	-	-	10351.42	-	-	-	-	-	73-58-55.20	40-45-33.00	670
New Orleans	1	HMD8V360-R05-H	Omni	-	-	8912.51	-	-	-	-	-	76-17-29.21	36-50-44.47	270
New York	1	HMD8V360-R05-H	Omni	-	-	6760.83	-	-	-	-	-	112-04-23.66	33-28-37.70	298
Norfolk	1	HMD8V360-R05-H	Omni	-	-	5888.44	180	180	0	7585.78	-	78-39-25.00	35-46-27.00	459
Phoenix	2	HMD8V180-R05-H	180	0	0	10000.00	-	-	-	-	-	77-26-06.00	37-32-11.94	369
Raleigh	1	HMD8V180-R05-H	180	0	0	6456.54	-	-	-	-	-	111-51-02.40	40-45-28.80	135
Richmond	2	HMD8V120-R05-H	120	65	0	8912.51	120	305	0	5370.32	-	98-29-32.00	29-25-42.00	428
Richmond	1	HMD8V90-R05-H	90	290	0	10471.29	-	-	-	-	-	90-11-26.00	38-37-48.00	482
Salt Lake City	1	HMD8V90-R05-H	90	110	0	10471.29	-	-	-	-	-	90-11-26.00	38-37-48.00	482
San Antonio	1	HMD8V90-R05-H	90	135	0	9549.93	90	225	0	10232.93	-	95-57-10.85	36-10-10.02	400
San Antonio	2	HMD8V90-R05-H	90	135	0	9549.93	90	225	0	10232.93	-	95-57-10.85	36-10-10.02	400
St. Louis	2	HMD8V90-R05-H	90	240	0	15848.93	-	-	-	-	-	95-57-10.85	36-10-10.02	400
Tulsa	1	HMD8V90-R05-H	90	240	0	15848.93	-	-	-	-	-	95-57-10.85	36-10-10.02	400

Proposed STA Authorization

Market	No of Setors	Antenna Type	Sector 1				Sector 2				Sector 3				Antenna Height (feet)	
			Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)	Antenna Beamwidth	Orientation	Downtilt	EIRP (Watts)		Longitude (W)
Austin	1	EMS FR90-16-00NVL	90	175	0	3090	Omni	-	-	3090	-	-	-	97-24-29.00	30-17-00.00	292
Birmingham	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	86-48-30.00	33-31-04.00	537
Charlotte	2	EMS FR90-16-00NVL	90	20	0	3090	90	110	0	3090	0	0	0	80-50-48.74	35-13-29.49	524
Cincinnati	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	84-30-51.00	39-06-24.00	308
Cleveland	2	EMS FR90-16-00NVL	90	70	0	3090	90	260	0	3090	0	0	0	81-41-34.37	41-29-58.50	656
Columbus	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	96-47-52.23	32-47-8.95	489
Dallas	2	HMD8V120-R05H	120	80	0	3090	120	80	0	3090	0	0	0	97-19-46.00	32-45-11.00	525
Dallas	2	EMS FR90-16-00NVL	90	315	0	4750.00	90	225	0	4750.00	0	0	0	104-59-22.06	39-44-52.04	598
Denver/Boulder	2	HMD8V360-R05H	Omni	-	-	3200.00	360	-	-	3200.00	-	-	-	83-02-41.00	42-19-50.00	648
Detroit	1	EMS FR90-16-00NVL	65	330	0	11700.00	-	-	-	6000.00	0	0	0	85-21-50.00	29-45-37.00	1060
Houston	2	HMD8V180-R05H	180	200	0	5000.00	180	270	0	5000.00	0	0	0	94-34-57.00	30-06-12.00	558
Houston	2	HMD8V180-R05H	180	160	0	5200.00	180	160	0	5200.00	0	0	0	115-08-31.00	36-10-10.10	466
Kansas City	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	115-10-00.00	36-07-57.00	401
Las Vegas	1	EMS FR90-16-00NVL	90	180	0	8710	90	-	-	8710	-	-	-	92-16-32.46	34-44-37.67	586
Little Rock	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	118-15-22.00	34-02-58.00	868
Los Angeles	3	EMS FR90-16-00NVL	90	0	0	2455	90	120	0	2455	0	0	0	85-45-28.00	38-15-20.00	560
Louisville	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	90-02-59.80	35-08-39.70	358
Memphis	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	87-54-06.69	43-02-17.85	588
Milwaukee	2	EMS FR90-16-00NVL	90	255	0	3890	90	355	0	3890	0	0	0	93-16-16.00	44-58-36.00	775
Minneapolis	2	Andrew HMD8V360-R05H	120	315	0	6818	120	315	0	6818	0	0	0	93-05-43.00	44-56-52.00	500
Minneapolis	1	EMS FR90-16-00NVL	90	103	0	8710	Omni	-	-	8710	-	-	-	86-46-55.09	36-09-48.85	868
Nashville	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	90-04-16.00	29-57-00.00	626
New Orleans	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	73-58-55.20	40-45-33.00	670
New York	2	EMS FR90-16-00NVL	90	30	0	3890	90	185	0	3890	0	0	0	76-17-29.21	36-50-44.47	270
Norfolk	2	Andrew HMD8V360-R05H	Omni	-	-	3090	Omni	-	-	3090	-	-	-	112-04-23.66	33-28-37.70	298
Phoenix	2	HMD8V360-R05H	Omni	-	-	2900.00	Omni	-	-	2900.00	-	-	-	78-38-25.00	35-46-27.00	458
Raleigh	2	EMS FR90-16-00NVL	90	45	0	3890	90	315	0	3890	0	0	0	77-26-06.00	37-32-11.94	369
Richmond	2	EMS FR90-16-00NVL	90	65	0	3890	90	305	0	3890	0	0	0	111-51-02.40	40-45-28.80	135
Salt Lake City	1	EMS FR90-16-00NVL	90	290	0	8710	-	-	-	8710	-	-	-	98-29-32.00	29-25-42.00	428
San Antonio	1	EMS FR90-16-00NVL	90	110	0	4750.00	180	-	-	4750.00	0	0	0	90-11-26.00	38-37-48.00	482
San Antonio	2	HMD8V180-R05H	180	180	0	4750.00	180	180	0	4750.00	0	0	0	95-57-10.85	36-10-10.02	400
St. Louis	2	HMD8V180-R05H	180	240	0	8710	-	-	-	8710	-	-	-			
Tulsa	1	EMS FR90-16-00NVL	90	240	0	8710	-	-	-	8710	-	-	-			