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SECTION

FEDERAL COMMUNICATIONS COMMISSION

FEE PROCESSING FORM

FCC	
FCC USE ONLY	
ONLY	TO THE PROPERTY OF STREET

Please read instructions on back of this form before completing it. Section I MUST be completed, if you are applying for concurrent actions which require you to list more than one Fee Type Code, you must also complete Section II. This form must accompany all payments. Only one Fee Processing Form may be submitted per application or filing. Please type or print legibly. All required blocks must_be completed or application/filing will be returned without action.

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PUBLIC REFERENCE CONY

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

In the Matter of the Application of

SATELLITE CD RADIO, INC.

For Authority to Construct, Launch and Operate a Space Station in the Satellite Sound Broadcasting Service File No.

RECEIVED

AUG 3 1990

Domestic Facilities Division
Satellite Radio Branch

AMENDMENT TO SATELLITE SYSTEM PROPOSAL AND APPLICATIONS TO CONSTRUCT, LAUNCH AND OPERATE SPACE STATIONS IN THE SATELLITE SOUND BROADCASTING SERVICE AT 103° WEST LONGITUDE

SATELLITE CD RADIO, INC.

Peter J. Dolan President

Techworld Plaza
800 K Street, N.W.
Suite 750
Washington, D.C. 20001-8000
(202) 408-0080

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

In the Matter of) the Application of)		
SATELLITE CD RADIO, INC.)	File	No
For Authority to Construct,) Launch and Operate a Space) Station in the Satellite) Sound Broadcasting Service) at 103° West Longitude)	1 1 k	

AMENDMENT TO APPLICATION OF SATELLITE CD RADIO, INC. FOR A PRIVATE DIGITAL SATELLITE SOUND BROADCASTING SYSTEM

Satellite CD Radio, Inc. hereby amends the abovecaptioned application filed on May 18, 1990 to construct,
launch and operate a space station in the satellite sound
broadcasting service at 103° West Longitude by adding or
changing the following items in the Technical Appendix:

1. Section 2 is amended by deleting the last paragraph of
that section on page 4 (beginning "The prime power. . .") and
replacing it with the following:

Accurate weight and power budgets for the satellite will depend on the specific designs proposed by spacecraft manufacturers. The budgets which follow are estimates based on, or extrapolated from, similar satellite system designs.

The prime power required for all the L-band final power amplifiers is estimated to be 6600 watts. Power requirements for other communications systems, for housekeeping functions, for the power conditioning system and an allowance for solar cell degradation during the life of the satellite increases the prime power requirement to about 9000 watts. An estimate of the power and weight requirements for the major spacecraft systems are given in Tables A and B respectively.

Table A

POWER REQUIREMENTS, BY SUBSYSTEM (ESTIMATED)

SUBSYSTEM OR COMPONENT	POWER	(watts)
Final power amplifiers Other communications subsystems Thermal control Battery charger, power conditioner	6600 200 100 <u>706</u>	
Total spacecraft:	7606	watts
Margin (3%):	228	
Total (equinox, at end-of-life):	7834	watts
Allowance for degradation, 15%:	1175	
Total, beginning of life:	9010	watts

This prime power requirement is well within the state of the art. The solar array for NASA's Skylab was designed to provide 20 kW.

Recent spacecraft approaching this power level include Telestar IV (6500 watts, beginning-of-life; 5700 watts, end-of-life), and the Hughes Aircraft Company's 601.

Table B
WEIGHT OF SUBSYSTEMS OR COMPONENTS (ESTIMATED)

SUBSYSTEM OR COMPONENT	WEIGHT (kg)
Antenna Transponder	100 786
Structure (conservatively)	200
Propulsion system	50 160
Thermal control Power (including conditioning)	200
Solar array	194
Digital electronics	40
RF TT&C	20
Attitude control	60
Wire harness	60
Mechanical integration	40 <u>160</u>
Apogee motor case (solid AKM) Total ("dry weight"):	2000 kg
iocai (diy weight).	2000 119
Station-keeping fuel (depends on amount of inclination control):	- 500
Total (beginning of life, on orbit, solid AKM):	2000 - 2500 kg
Total (beginning of life, in transfer orbit):	3800 - 4750 kg
Total (beginning of life, on orbit, integrated liquid orbit circularization and station-keeping system):	somewhat less than above

The range of spacecraft weight shown in the table are consistent with the payload capabilities of several available launch vehicles in their present form, or with a moderate uprating. For example, the Ariane 44L (4240 kg.), the Atlas 2AS, the Titan 3C and the Glavkosmos Proton (2.5 metric tons into geostationary orbit).

2. In Section 4.1 on page 6, the fifth indented, single-spaced sentence ("The use of quad-spatial diversity in

vehicular receivers to mitigate the effects of multipath fading") should be deleted and replaced with the following:

The use of interleaving in the time domain, with the possible future option of space diversity, in vehicular receivers to mitigate the effects of multipath fading.

3. Section 4.3 is amended by replacing the third sentence of the first paragraph on page 8 (beginning "Another 34 channels . . . ") with the following:

To insure that cities with tall buildings -- the "urban canyons" of major metropolitan areas where line-of-sight to the satellite may occasionally be blocked -- have adequate signal levels for high-quality reception, those 66 channels will be rebroadcast by a network of terrestrial repeaters. Moreover, under the frequency reallocation proposals of CD Radio, Inc., 34 additional channels would be available for terrestrial broadcasting in urban areas, and 14 additional channels would be available in non-urban areas. (The remaining 10 channels will be available for Mobile aeronautical teleme-tering in all non-urban areas.) Therefore, the public will have a total of 100, CD-quality, highly reliable channels available in urban areas, and 80 channels available in non-urban areas.

4. Table 3, "Receiver characteristics," on page 14, contains several errors and should be replaced with the following:

Table 3: Receiver Characteristics

TYPE - Vehicular - Single antenna - Delay equalizer - Viterbi maximum likelihood decoder - Portable, for use in high-signal level urban areas - CHARACTERISTICS - Single antenna - Delay equalizer

- Portable, for use in low-signal level urban areas

- Single antenna

code decoder

- Delay equalizer
- Viterbi maximum likelihood decoder

- Simple convolutional

- Home, fixed

- Single outdoor antenna
- Simple convolutional code decoder
- 5. In Section 5.1, the last three lines of the second paragraph on page 15 should be deleted and replaced with the following:
 - . . . signals with delays appropriate to the urban environment (e.g., delays up to 15-20 usec).
- 6. In Section 5.1, the last two sentences of the third paragraph beginning on page 15 and ending on page 16 should be deleted and replaced with the following:

This type of receiver uses a Viterbi maximum likelihood decoder to realize a coding gain of about 5 dB at a BER of 10^{-6} .

7. In Section 5.1, the second sentence of the first complete paragraph on page 16 should be deleted and replaced with the following:

This receiver relies on the use of an adaptive delay equalizer, interleaving in the time domain and Viterbi maximum likelihood decoder to mitigate these adverse propagation effects.

8. In Section 5.2, the third paragraph on page 18 should be deleted and replaced with the following:

Alternative types of vehicular antennas under consideration are discussed in Appendix 5 to the Supplement to Petition for Rule Making filed by CD Radio, Inc. on June 22, 1990.

9. In Section 5.2, the first sentence of the first sentence of the first paragraph on page 19 should be deleted and replaced with the following:

The receiver low noise amplifier is a solid state device exhibiting an operating noise temperature of 100 K.

- 10. In Section 6.3, "Feeder Links," on page 22, the term "L-band" should be deleted from the first line of the first paragraph of this section and from the 6th and 8th lines of the second paragraph of this section and replaced with the term "Ka-band."
- 11. In Section 7, "Launch vehicle," on page 24, the following language was inadvertently omitted from end of the

last sentence and should be inserted after the phrase "Titan 3C launch vehicle": "or other currently available launch vehicles (or their slightly uprated versions) such as the Ariane 44L (the version with liquid strap-ons), the Atlas 2AS, the Proton (which is available from "Glavkosmos" of the USSR) and the Space Shuttle (if commercial launches were to be authorized again)."

12. In Section 9, on page 26, the word "be" should be inserted in the first line before the word "no" and the last sentence of the section should be deleted and replaced with the following:

The limit of inclination will be about 10 to 13 degrees depending on the earth's gravitational field at the orbital longitude. Therefore, the satellite will remain within the five-degree limit for two times 6.25 years, that is, for about 12-1/2 years. This technique was successfully employed by the Marisat satellites which were placed in orbit with an initial inclination of about 2.3 degrees, with an ascending node that caused this inclination to decrease initially.

The attitude of such satellites need to be adjusted during each 24-hour period to keep the main beam of the satellite antennas constantly

directed toward the earth. That maneuver uses only a small amount of electrical power, and does not require the expenditure of station-keeping fuel.

SATELLITE CD RADIO, INC.

By:

Peter Dolan President

Techworld Plaza
800 K Street, N.W.
Suite 750
Washington, D.C. 20001-8000
(202) 408-0080

July 17, 1990

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

In the Matter of) the Application of)	! !	
SATELLITE CD RADIO, INC.	File	No.
For Authority to Construct, (2) Launch and Operate a Space (3) Station in the Satellite (3) Sound Broadcasting Service (4) at 121° West Longitude (5)	 	

AMENDMENT TO APPLICATION OF SATELLITE CD RADIO, INC. FOR A PRIVATE DIGITAL SATELLITE SOUND BROADCASTING SYSTEM

Satellite CD Radio, Inc. hereby amends the abovecaptioned application filed on May 18, 1990 to construct,
launch and operate a space station in the satellite sound
broadcasting service at 121° West Longitude by adding or
changing the following items in the Technical Appendix:

1. Section 2 is amended by deleting the last paragraph of
that section on page 4 (beginning "The prime power. . .") and
replacing it with the following:

Accurate weight and power budgets for the satellite will depend on the specific designs proposed by spacecraft manufacturers. The budgets which follow are estimates based on, or extrapolated from, similar satellite system designs.

The prime power required for all the L-band final power amplifiers is estimated to be 6600 watts. Power requirements for other communications systems, for housekeeping functions, for the power conditioning system and an allowance for solar cell degradation during the life of the satellite increases the prime power requirement to about 9000 watts. An estimate of the power and weight requirements for the major spacecraft systems are given in Tables A and B respectively.

Table A

POWER REQUIREMENTS, BY SUBSYSTEM (ESTIMATED)

SUBSYSTEM OR COMPONENT	POWER	(watts)
Final power amplifiers Other communications subsystems Thermal control Battery charger, power conditioner	6600 200 100 <u>706</u>	
Total spacecraft:	7606	watts
Margin (3%):	228	
Total (equinox, at end-of-life):	7834	watts
Allowance for degradation, 15%:	<u>1175</u>	
Total, beginning of life:	9010	watts

This prime power requirement is well within the state of the art. The solar array for NASA's Skylab was designed to provide 20 kW.

Recent spacecraft approaching this power level include Telestar IV (6500 watts, beginning-of-life; 5700 watts, end-of-life), and the Hughes Aircraft Company's 601.

Table B

WEIGHT OF SUBSYSTEMS OR COMPONENTS (ESTIMATED)

SUBSYSTEM OR COMPONENT	WEIGHT (kg)
Antenna Transponder Structure (conservatively) Propulsion system Thermal control Power (including conditioning) Solar array Digital electronics RF TT&C Attitude control Wire harness Mechanical integration Apogee motor case (solid AKM) Total ("dry weight"):	100 786 200 50 160 200 194 40 20 60 60 40 160 2000 kg
Station-keeping fuel (depends on amount of inclination control):	- 500
Total (beginning of life, on orbit, solid AKM):	2000 - 2500 kg
Total (beginning of life, in transfer orbit):	3800 - 4750 kg
Total (beginning of life, on orbit, integrated liquid orbit circularization and station-keeping system):	somewhat less than above

The range of spacecraft weight shown in the table are consistent with the payload capabilities of several available launch vehicles in their present form, or with a moderate uprating. For example, the Ariane 44L (4240 kg.), the Atlas 2AS, the Titan 3C and the Glavkosmos Proton (2.5 metric tons into geostationary orbit).

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Table 3: Receiver Characteristics

TYPE	<u>CHARACTERISTICS</u>
- Vehicular	- Single antenna
	- Delay equalizer
	- Viterbi maximum likelihood decoder
- Portable, for use in	- Single antenna
high-signal level urban areas	- Delay equalizer
	- Simple convolutional code decoder
- Portable, for use in	- Single antenna
low-signal level urban areas	- Delay equalizer
	 Viterbi maximum likelihood decoder
- Home, fixed	- Single outdoor antenna
	 Simple convolutional code decoder

- 5. In Section 5.1, the last three lines of the second paragraph on page 15 should be deleted and replaced with the following:
 - . . . signals with delays appropriate to the urban environment (e.g., delays up to 15-20 usec).
- 6. In Section 5.1, the last two sentences of the third paragraph beginning on page 15 and ending on page 16 should be deleted and replaced with the following:

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Alternative types of vehicular antennas under consideration are discussed in Appendix 5 to the Supplement to Petition for Rule Making filed by CD Radio, Inc. on June 22, 1990.

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The receiver low noise amplifier is a solid state device exhibiting an operating noise temperature of 100 K.

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- 11. In Section 7, "Launch vehicle," on page 24, the following language was inadvertently omitted from end of the

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The attitude of such satellites need to be adjusted during each 24-hour period to keep the main beam of the satellite antennas constantly

Satellite CD Radio, Inc. FCC Form 430 July 17, 1990

EXHIBIT V OTHER RADIO STATION INTERESTS

100 percent of the common stock of Satellite CD Radio, Inc. will be owned by Era-Mar, Inc. Martin A. Rothblatt, who owns 100 percent of the stock of MARCOR which, in turn, owns 75 percent of the stock of Era-Mar, Inc., owns stock in Geostar Corporation, a licensee in the Radiodetermination Satellite Service.

Satellite CD Radio, Inc. FCC Form 430 July 17, 1990

EXHIBIT VI STOCKHOLDERS OWNING OF RECORD AND/OR VOTING 10 PERCENT OR MORE OF THE FILER'S VOTING STOCK

Percentage of Common Stock Ownership Percentage of Common Stock Voted

100%

100%

Name and Address
Era-Mar, Inc.
Techworld Plaza
800 K Street, N.W.
Suite 750
Washington, D.C. 20001

Satellite CD Radio, Inc. FCC Form 430 July 17, 1990

EXHIBIT VII OFFICERS AND DIRECTORS OF SATELLITE CD RADIO, INC.

OFFICERS

Name and Title

Martin A. Rothblatt Chief Executive Officer

Peter J. Dolan President & Chief Financial Officer

Kevin MacCarthy Secretary

Thomas J. Dougherty, Jr. Assistant Secretary

Address

MARCOR Techworld Plaza 800 K Street, N.W.

Suite 750

Washington, D.C. 20001

MARCOR Techworld Plaza

800 K Street, N.W.

Suite 750

Washington, D.C. 20001

Kevin MacCarthy Associates

444 Madison Avenue New York, N.Y. 10022

Fletcher, Heald & Hildreth 1225 Connecticut Ave., N.W.

Suite 400

Washington, D.C. 20036

Satellite CD Radio, Inc. FCC Form 430 Exhibit VII, Page Two

DIRECTORS

<u>Name</u>

Martin A. Rothblatt Chairman of the Board

Michael S. Alpert

Thomas J. Dougherty, Sr.

Kevin MacCarthy

Robert Mounty

Yovette Mumford

Sharad Tak

Address

MARCOR

Techworld Plaza 800 K Street, N.W.

Suite 750

Washington, D.C. 20001

Alpert & Associates 2000 L Street, N.W.

Suite 702

Washington, D.C. 20036

7308 Burdette Court Bethesda, MD 20817

Kevin MacCarthy Associates

444 Madison Avenue New York, N.Y. 10022

301 East 62nd Street

New York, N.Y. 10021

System Builders, Inc. 1 Vande Graaff Drive Burlington, MA 01803

Tak Communications

1577 Spring Hill Road

Vienna, VA 22180

EXHIBIT VIII NATURE AND EXTENT OF CONTROL BY OTHER CORPORATIONS

owned by Era-Mar, Inc., a Delaware corporation engaged primarily in the technology development business. The address of Era-Mar, Inc. is c/o MARCOR, Techworld Plaza, 800 K Street, N.W., Suite 750, Washington, D.C. 20001. Peter J. Dolan is the president and a director of Era-Mar, Inc. The other directors of Era-Mar, Inc. are Maurice Levy, Kevin MacCarthy and Martin A. Rothblatt, who serves as Chairman of the Board. The address of each director, except for Mr. MacCarthy, is c/o MARCOR at the address indicated above. Mr. MacCarthy's address is 444 Madison Avenue, New York, N.Y. 10022.

MARCOR, a District of Columbia corporation engaged primarily in the technology and market development business, will hold 75 percent of the stock of Era-Mar, Inc. The address of MARCOR is Techworld Plaza, 800 K Street, N.W., Suite 750, Washington, D.C. 20001. 100 percent of the stock of MARCOR is held by Martin A. Rothblatt, who is a U.S. citizen. His address is c/o MARCOR at the address indicated above. Martin A. Rothblatt is the president and a director of MARCOR. The other directors are Bina Rothblatt and Eleanor Leung. The address of each director is c/o MARCOR at the address indicated above.

Satellite CD Radio, Inc. FCC Form 430 Exhibit VIII, Page Two

New Era Corp., a Delaware corporation engaged primarily in the business of technology development, will hold 25 percent of the stock of Era-Mar, Inc. and warrants exercisable to purchase so many additional shares of the stock Era-Mar, Inc. as would equal 25 percent of the corporation's stock on a fully-diluted basis.

The address of New Era Corp. is c/o Kevin MacCarthy
Associates, 444 Madison Avenue, New York, N.Y. 10022. 100 percent
of the stock of New Era Corp. is held by Jean-Jacques Poutrel, who
is a citizen of France. His address is c/o Ingenico, Compagnie
Industrielle et Financiere d'Ingenierie, 9 Qual de Dion Bouton,
92800 Puteaux, France. Mr. Poutrel is also a director of New Era
Corp. Kevin MacCarthy is the president and a director of New Era
Corp. His address is 444 Madison Avenue, New York, N.Y. 10022.

Upon exercise of the warrants held by New Era Corp., it would hold 50 percent of the stock of Era-Mar, Inc, and MARCOR would hold the remaining 50 percent. However, the warrants, which will include standard investor protection provisions, will not be exercisable if to do so would result in aggregate stockholdings by non-U.S. persons in violation of the limitations of Section 310(b) of the Communications Act, should these limitations be determined to be applicable to the service to be offered by Satellite CD Radio, Inc.

Satellite CD Radio, Inc.
Private Digital Satellite
Sound Broadcasting Application
Revised July 17, 1990

Appendix 4

Supplement to Petition for Rulemaking.

Federal Communications Commission

WASHINGTON DIC 20554

In the Matter of the Petition of)			
SATELLITE CD RADIO, INC.)	RM	-	7400
For Amendment of Section 2.106 and Part 25 of the Commission's Rules To Establish a Satellite/ Terrestrial CD Quality))))			

SUPPLEMENT TO PETITION FOR RULEMAKING

SATELLITE CD RADIO, INC.

Peter Dolan President

Techworld Plaza 800 K Street, N.W. Suite 750 Washington, D.C. 20001-8000 (202) 408-0080

June 22, 1990

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APPENDIX 4. SHARING BETWEEN BROADCASTING- SATELLITE SOUND AND MOBILE (AERONAUTICAL TELEMETERING)	
APPENDIX 5. OVERVIEW OF VEHICULAR RECEIVER	
APPENDIX 6. INFORMATION FOR ADVANCE PUBLICATION UNDER RR 1042: SATELLITES OF CD RADIO, INC.	

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

In the Matter of the Application of)
SATELLITE CD RADIO, INC.) File No.
For Authority to Construct, Launch and Operate a Space Station in the Satellite Sound Broadcasting Service	AUG 3 1990
AMENDMENT TO SATELLITE	Satellite Radio Branch SYSTEM PROPOSAL

Satellite CD Radio, Inc. hereby amends the above-captioned Satellite System Proposal filed on May 18, 1990 in connection with two applications to construct, launch and operate two satellites in geostationary orbit, including one at 103° West Longitude, providing nationwide digital, CD-quality radio service in the 1470-1530 MHz band. The Satellite System Proposal is amended as follows:

1. Section VI, "Legal Qualifications," is amended by replacing subsections A and B on pages 6-7 with the following:

VI. <u>LEGAL QUALIFICATIONS</u>

A. Ownership

Satellite CD Radio, Inc. ("CD Radio, Inc.") is a corporation organized under the laws of Delaware for the primary purpose of entering the domestic broadcasting satellite (sound) business. 100 percent of the stock of CD Radio, Inc. will be held by Era-Mar, Inc., a Delaware

corporation engaged primarily in the technology development business.

MARCOR, a District of Columbia corporation engaged primarily in the technology and market development business, will hold 75 percent of the stock of Era-Mar, Inc. 100 percent of the stock of MARCOR is held by Martin A. Rothblatt, who is a U.S. citizen.

New Era Corp., a Delaware corporation engaged primarily in the business of technology development, will hold 25 percent of the stock of Era-Mar, Inc. and warrants exercisable to purchase an additional 25 percent of the corporation's stock on a fully-diluted basis. Upon exercise of the warrants held by New Era Corp., it would hold 50 percent of the stock of Era-Mar, Inc., and MARCOR would hold the remaining 50 percent.

100 percent of the stock of New Era Corp. is held by Jean-Jacques Poutrel, who is a citizen of France. Grant of this application is not subject to the alien ownership restrictions of Section 310(b) of the Communications Act of 1934, as amended, because CD Radio, Inc. will be licensed as a private carrier. Even if the service to be offered by CD Radio, Inc. were to be determined to be subject to Section 310(b), however, New Era Corp.'s 25 percent stock holding in Era-Mar, Inc. would be in full compliance with Section 310(b)(4). The warrants to be held by New Era, Inc., which will include standard investor protection provisions, will not be exercisable if to do so would result in aggregate stockholdings by non-U.S. persons in violation of the limitations of Section 310(b).

B. FCC Form 430

CD Radio, Inc.'s legal qualifications are demonstrated in the FCC Form 430, "Common Carrier and Satellite Radio Licensee Qualification Report," attached hereto as revised Appendix 2.

2. Section IV, "Technical Qualifications," on page 4, is amended by incorporating the "Supplement to Petition for Rule Making" filed by CD Radio, Inc. on June 22, 1990, a copy of which is attached hereto as new Appendix 4. The Supplement contains additional information pertaining to CD Radio,

Inc.'s proposed frequency plan, sharing between broadcasting-satellite sound and aeronautical telemetry, the design of the vehicular receiver, and advance publication under RR 1042.

3. Section V, "Financial Qualifications," is amended by replacing it with the following:

V. FINANCIAL QUALIFICATIONS

The Board of CD Radio, Inc., represents a cross section of successful business interests in the satellite and radio fields. The principals of CD Radio have a track record of successfully financing the projects they undertake.

CD Radio, Inc.'s financial plan is attached hereto as revised Appendix 1.

Capital Costs

Total capital costs for the CD Radio System are \$384.5 million, as follows:

Satellite Construction and Launch Services	\$ 300 million
Launch Insurance	60 million
Terrestrial Station Network	1.5 million
Ground Uplink Station	5 million
CD Radio Development	3 million
Contingency	15 million_
Total	\$ 384.5 million

Source of Funds

CD Radio, Inc. will obtain its funds from a mix of debt and equity capital, most structured through a \$ 384.5 million project financing facility. The financing will be leveraged upon pre-sales contracts with CD Radio, Inc. customers. Additionally, early stage financing will come from private placement and subordinated debt financing.

SATELLITE CD RADIO, INC.

Peter J. Dolan

President

Techworld Plaza
800 K Street, N.W.
Suite 750
Washington, D.C. 20001-8000
(202) 408-0080

July 17, 1990

Satellite CD Radio, Inc.
Private Digital Satellite
Sound Broadcasting Application
Revised July 17, 1990

Appendix 1

Financial Plan

CD RADIO, INC.
Return to Investors
(in millions)

Exit Year	1996	Low Case	High Case
Exit year EBIT		145.08	145.08
Exit Multiple		9.00	8.00
Company Value		870.50	1,160.67
Add: Excess Cash		117.40	117.40
Total		987.90	1,278.06
Less: Senior Debt Subordinated Debt		329.57	329.57
Working Capital Line		2.00	2.00
Available Cash		660.61	950.78
Split: Debt financing	20.00%	132.12	190.16
Common Shareholders	80.00%	528.49	760.62

CD RADIO, INC. Income Statement (in millions)

Revenues	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Channel sales Facility Maintenance Fee Rovalties	00.00	0.00	0.00	0.00	1.80	3.60	178.20	6.00	178.20	178.20	178.20	178.20	178.20 6.00	178.20 6.00	178.20 6.00	178.20 6.00	178.20
Total Revenues	0.00	0.00	0.00	0.00	55.26	110.52	184.20	184.20	184.20	184.20	0.00	0.00	0.00	0.00	0.00	0.00	00.00
Operating Expenses	***************************************										7.1.	03.40	104.60	164.20	184.20	184.20	184.20
Satellite System	0.00	0.00	0.00	00.00	1.59	2.66	4.09	4.09	4.09	4 09	4 09	4 00	9				
General & Admin	0.00	0.70	0.94	1.20	2.24	2.49	2.99	2.99	2.99	2.99	2.99	2 99	60.4	4.03 00.4	80.4 80.0	4.0g	4.09 00.0
Depreciation	0.05	0.05	2.63	10.88	24.13	29.54	32.04	32.04	32.04	32.04	32.04	32.04	32.03	31.99	29.42	21.17	7.99
Total Operating Expenses	0.02	0.75	3.57	12.08	27.96	34.69	39.12	39.12	39.12	39.12	30.10	20 1 0					
		-							4	7	21.60	39.12	33.10	39.07	36.49	28.24	14.99
EBIT	-0.02	-0.75	-3.57	-12.08	27.30	75.83	145.08	145.08	145.08	145.08	145.08	145.08	145.10	145.13	147.71	155.96	169 21
Non-Operating Expenses		1	;	;			1		:		;	1	;				
Interest	00.0	0.03	1.78	5.80	19.07	39.37	47.45	43,83	36.32	28.81	21.42	14.08	7 + 7	ć	6	0	6
Amortization	0.00	0.00	0.00	0.00	0.40	0.40	0.40	0.40	0.40	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Operating Expenses	0.00	0.03	1.78	5.80	19.47	39.77	47.85	44.23	36.72	28.81	21.42	14.28	7.14	0.00	0.00	0.00	00.0
Рге-Тах Іпсоте	-0.02	-0.77	-5.34	-17.87	7.83	36.06	97.24	100.85	108.36	116.28	123.66	130.80	137.96	145.13	147.71	155.96	169.21
Income Taxes	0.00	0.00	0.00	0.00	00.0	18.28	34.03	35.30	37.93	40.70	43.28	45.78	48.29	50.80	51.70	54.59	59.22
NET INCOME	-0.02 -0.77 -5.34 -17	-0.77	-5.34	-17.87	7.83	17.78	63.20	65.55	70.44	75.58	80.38	85.02	89.67	94.34	96.01	101.37	109.99
							# # # !!					== =====					

ASSUMPTIONS: 1 Satellite channel loading

30%	%09	100%	Ø	66	9.00	12	35%	9.00
1st yr	2nd yr	3rd yr	Number of satellites	Satellite channel capacity	Channel sale/lease price Annual installments	System equipment useful life	Income tax rate	Facility maintenance fee (total)
			N	၈	4	5	9	7

CD RADIO, INC.
Cash Flow Statement
(in millions)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Begining Cash	0.00	2.25	11.03	7.81	3.89	33.82	79.11	117.40	158.04	203.56	254.82	312.31	374.45	441.22	567.55	692.97	815.51
Sources Of Funds	6		i i	1	1									1		1 1 2 2 7 7	
Non- Cash Items	-0.02	-0./	-5.34	-17.87	7.83	8/./1	63.20	65.55	/0.44	75.58	80.38	85.02	89.67	94.34	96.01	101.37	109.99
Depreciation	0.05	0.05	2.63	10.88	24.13	29.54	32.04	32.04	32.04	32.04	32.04	32.04	32.03	31.99	29.42	21.17	7 92
Amortization	00.0	0.00	00.0	0.00	0.40	0.40	0.40	0.40	0.40	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00
										-		;					
Funds From Operations	0.00	-0.72	-2.72	-7.00	32.36	47.72	95.65	97.99	102.88	107.62	112.42	117.06	121.70	126.33	125.43	122.54	117.90
Founders Capital	0.25	0.00	00.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	00.0
Mezzanine Capital	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	00.0	00.0	0.00
Subordinated Debt Financing	0.00	10.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Senior Debt Financing	0.20	0.40	30.90	99.00	159.00	65.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Working Capital Line	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00
	1	1	!	:	* * * * * * * * * * * * * * * * * * * *	1											
Total Sources	2.95	9.68	28.18	97.01	191.36	112.72	125.65	97.99	102.88	107.62	112.42	117.06	121.70	126.33	125.43	122.54	117.90
	:		!	:	:							;					
Uses Of Funds																	
Capital Asset Acquisition	0.20	0.40	30.90	99.00	159.00	65.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Organizational Costs	0.50	0.50	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debt Amortization	0.00	0.00	0.00	1.43	2.43	2.43	57.36	57.36	57.36	56.36	54.93	54.93	54.93	0.00	0.00	0.00	0.00
Working Capital Requirements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	***************************************	1	-					-								1	
Total Uses	0.70	0.90	31.40	100.93	161.43	67.43	87.36	57.36	57.36	56.36	54.93	54.93	54.93	0.00	0.00	0.00	00.00
			!			-	:	!				*******					*****
Ending Cash	2.25	11.03	7.81	3.89	33.82	79.11	117.40	158.04	203.56	254.82	312.31	374.45	441.22	567.55	692.97	815.51	933.42

CD RADIO, INC.
Capital Asset Acquisitions
(in millions)

Capital Asset	1990	1990 1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Satellite Construction and Launch Services: System I System II	0.00	0.00	15.00	45.00 45.00	45.00 45.00	30.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	30.00	90.00	90.00	60.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Launch Insurance	0.00	0.00	0.00	0.00	60.00	0.00	0.00	00.0	00.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terrestrial Station Network	0.10	0.20	0.20	0.50	0.50	0.00	0.00	00.00	0.00	00.0	00.0	0.00	0.00	00.00	0.00	0.00	0.00
Ground Uplink Station	0.00	0.00	0.00	2.50	2.50	00.00	0.00	0.00	0.00	00.00	00.00	0.00	00.00	0.00	0.00	0.00	00.00
CD Radio Development	0.10	0.20	0.70	1.00	1.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Contingency	0.00	0.00	0.00	5.00	9.00	5.00	0.00	00.0	00.0	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0
Total Capital Costs	0.20 0.40 30.90 99.00 159.00 65.00 30.00 0.00	0.40	30.90	99.00	159.00	65.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ASSUMPTIONS:

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rate-Senior	rate-Subordinated
Interest	Interest
-	

13%

2 Debt term-years

3 Senior Debt Terms: Interest only 1990 - 1996

7

CD RADIO, INC.

Expenses	
Operating	
ō	ds)
Schedule	(in thousand

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1 9 9 9	0000	2004	0000	000	•		0
Control Center							• • •))		-	7007	5003	* 0 0 7	5007	9007
Salaries & Wages	0	0	0	0	250	250	250	250	250	250		250	250	250	250	250	250
Taxes & Benefits	0	0	0	0	75	75	75	75	75	75		75	7.5	75	7.5	75	7.5
Telephone & Utilities	0	0	0	0	100	100	100	100	100	100		100	100	200	2 6	2 5	2 5
Information Systems	0	0	0	0	50	90	50	50	50	50		200	200	20.5	2 6	2 6	2 6
In-orbit Insurance	0	0	0	0	1,069	2,138	3,564	3,564	3,564	3,564		3.564	3.564	3.564	3.564	3 564	3 564
Other	0	0	0	0	20	20	20	90	50	20	50	50	50	50	50,25	50,20	50,5
											*	;		1	1		
				0	1,594	2,663	4,089	4.089	4,089	4,089	4,089	4,089	4,089	4,089	4,089	4,089	4,089
u		H H H H H									11 11 11 11 11 11 11 11 11 11 11 11 11				# # # # # # #	11	
General & Administrative																	
i te	0	0	0	0	750	1,000	1.500	1.500	1 500	1.500	1 500	1 500	7	•	4	•	
Salaries & Wages	0	150	300	200	720	720	720	720	720	720	720	720	720	000,	000,	000,1	000,-
Taxes & benefits	0	45	90	150	216	216	216	216	216	216	216	216	216	216	216	216	027
Insurance	0	0	90	90	90	50	20	50	50	20	20	50	50	2.00	20.5	יי פיי	יי א
Professional fees	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	800	200
Telephone & Utilities	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Office Expense	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Other	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		-	1							1	1				1		
Total	0	695	940	1,200	2,236	2,486	2,986	2,986	2,986	2,986	2,986	2,986	2,986	2,986	2,986	2,986	2,986
H						*		# # # # #			# # # #		* ***	* * * * * * * * * * * * * * * * * * * *			#
ASSUMPTIONS			i	!													
1 Compensation - Headquarters	σ.		Pres	n O	F&A	Μ Σ	Total										
Executive #			-	-	₹**	***	4										
Executive \$			125	06	75	75	365										
# JelS			•	c	ď	c	o										
Staff \$			- 06	125	1 20	ν α	9 2 2										
Total			20 4	2 4	2 4	2 4	1 0										
200			2	2	200	000	7.50										
Compensation - Control Center	10																
Staff #			0	4	0	0	4										
Satff \$			0	250	0	o	250										
)) 	•	•	2										
2 In-orbit Insurance - % of annual installments	nual instal	llments		2%													

CD RADIO, INC.
Balance Sheet
(in millions)

ASSETS	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	6		9	
Cash Other Current Assets	2.25	11.03	7.81	3.89	33.82	79.11	117.40	158.04	203.56	254.82	312.31	374.45	441.22	567.55	2004 692.97	2005 815.51	2006 933.42
Total Current Assets	2.25	11.03	7.81	3.89	33.82	79.11	117.40	158.04	203.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Communications Equipment	0.20	0.60	31.50	130.50	289.50	354.50	384.50	384.50	384.50	384.50	384.50	374.43	441.22	567.55	692.97	815.51	933.42
Organization Costs Accumulated Amortization	0.50	1.00	1.50	2.00	-37.69	-67.23	-99.28 2.00	-131.32 2.00	-163.36 2.00	-195.40	-227.44	-259.48		384.50 -323.50	384.50 -352.92	384.50 -374.08	384.50
Total Fixed Assets	0.68	1.53	30.31	118.93	-0.40	-0.80	-1.20	-1.60	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00
TOTAL ASSETS	2.93 12.56	12.56	38.12 122.82	122.82	287.22	367.58	403.42	411.62	424.70	443.92	157.06	125.02	92.99	61.00	31.58	10.42	2.50
LIABILITIES AND EQUITY									# # # # # # # # # # # # # # # # # # #						11	н	76.00¢
Senior Debt Subordinated Debt Working Capital Line	0.20	0.60 10.00 0.00	31.50 10.00 0.00	130.50 8.57 5.00	289.50 7.14 4.00	354.50 5.71 3.00	329.57 4.29	274.64	1.43	164.79	109.86	54.93	0.00	0.00	0.00	0.00	0.00
Total Liabilities	0.20	10.60	41.50	144.07	300.64	363.21	335.86	278.50	221.14	164.79	0.00	54.93	0.00	0.00	0.00	0.00	0.00
Common Stock Retained Earnings	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75		2.75	2.75				2.75	2.75
Total Equity	2.73	1.96	-3.38	-21.25	-13.42	4.36	67.57	133.12	203.56			441.79					933.17
TOTAL LIABILITIES & EQUITY =	2.93 12.56		38.12 122.82		287.22	367.58			424.70	443.92			534.21	628.55	724.56	825.93	935.92
																H	

CD RADIO, INC. Debt Service Schedule (in millions)

:	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Senior Debt Begining Balance	0.00	0.20	09.0	31.50	130.50	289.50	354.50	329.57	274.64	219.71	164.79	109.86	54.93	0.00	0.00	0.00	0.00
Additions	0.20	0.40	30.90	99.00	159.00	65.00	30.00	00.00	00.00	00.0	00.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Principal Additional Principal	0.00	0.00	0.00	0.0 0.0	0.00	0.00	54.93	54.93	54.93 0.00	54.93	54.93	54.93	54.93	0.00	0.00	0.00	0.00
7																	
Eriqing bakance	0.20	0.00	00.10	130.30	289.30	334.30	329.57	2/4.64	r/.612	164.79	109.86	54.93	0.00	0.00	0.00	0.00	0.00
Subordinated Debt																	
Begining Balance Additions	0.00	0.00	10.00	10.00	8.57	7.14	5.71	4.29	2.86	1.43	0.00	00.00	0.00	0.00	0.00	0.00	0.00
Required Principal	0.00	0.00	0.00	1.43	1.43	1.43	1.43	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Additional Principal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	0.00	10.00	10.00	8.57	7.14	5.71	4.29	2.86	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Working Capital Line																	
Begining Balance	0.00	0.00	0.00	0.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00
Additions	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Required Principal	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Additional Principal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00
Ending Balance	0.00	0.00	0.00	5.00	4.00	3.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				"	##			-			# # # #			H H H	******		11
Interest Expense Senior Debt	0.00	0.03	0.08	4.10	16.97	37.64	46.09	42.84	35.70	28.56	21.42	14 28	7 14	0	0	0	0
Subordinated Debt	00.0	0.00	1.70	1.70	1.46	1.21	0.97	0.73	0.49	0.24	0.00	0.00	0.00	0.00	0.00	00.0	00.0
Worling Capital Line	0.00	0.00	0.00	0.00	0.65	0.52	0.39	0.26	0.13	0.00	0.00	0.00	00.0	00.0	00.00	00.00	0.00
Total	0.00	0.03	1.78	5.80	19.07	39.37	47.45	43.83	36.32	28.81	21.42	14.28	7.14	0.00	0.00	0.00	0.00
					 	H H H H H H	H H H H H	# # # # # # # #	# # # # # #	# # # # # #	# # # # #	# # # # # #				H H H H	H H H
Principal Payments Senior Debt	00.00	0.00	0.00	0.00	0.00	0.00	54.93	54.93	54.93	54.93	54.93	54.93	54.93	0.00	0.00	0.00	0.00
Subordinated Debt Worling Capital Line	0.00	0.00	0.00	1.43	1.43	1.43	1.43	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
								2	2	3 1		2	2 !	9	2	3	0.0
Total	0.00	0.00	0.00	1.43	2.43	2.43	57.36	57.36	57.36	56.36	54.93	54.93	54.93	0.00	0.00	0.00	0.00

Satellite CD Radio, Inc.
Private Digital Satellite
Sound Broadcasting Application

Revised July 17, 1990

Appendix 2

FCC Form 430 Common Carrier and Satellite Radio Licensee Qualification Report

FCC 430

FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

Approved by OME 3060-0105 Expires 3/31/90

COMMON CARRIER AND SATELLITE RADIO LICENSEE QUALIFICATION REPORT

See reverse side for informatio regarding public burden statemen

INSTRUCTIONS

 A. The "Filer" of this report is defined to include: (1) An applicant, carrier and satellite radio authority as required for such application. B. Submit an original and one copy (sign original only) to the Federal service is listed in Item 6, submit an additional copy for each supplication for radio authority, attach it to that application. C. Do not submit a fee with this report. 	ons; or (2) A lice I Communications (insee or permittee, where this commission, Washington, DC 2055	report is req 4. If more th	Jan one La Integral
1. Business Name and Address (Number, Street, Sta	te and ZIP	2. (Area Code) Telepho	ne Numbe	er:
Code) of Filer's Principal Office:		(202) 408-0080		
Satellite CD Radio, Inc.		3. If this report super		
Techworld Plaza, Suite 750		filed report, specify	y its date:	
Washington, D.C. 20001-8000		5/18/90		
4. Filer is (check one): ☐ Individual ☐ Partnership ☑ Co	rporation	5. Under the laws of jurisdiction) is the f		
Cthor (Specify):		Delaware		
Other (Specify): 6. List the common carrier and satellite radio service	es in which	Filer has applied or is a	current II	censee
or permittee: Private Satellite Carrier		•		
7(a) Has the Filer or any party to this application he permit revoked or had any application for pertitions Commission? If "YES", attack as Exhibit I a statem of license or permit revoked and relating circumstances.	mit, license or ent giving call sign	r renewal denied by a sad file number	Yes	⊠ No
(b) Has any court finally adjudged the Filer, or any controlling the Filer, guilty of unlawfully mono to monopolize radio communication, directly or manufacture or sale of radio apparatus, exclus means of unfair methods of competition? If "Y the facts.	ppolizing or a r indirectly, t sive traffic ar ES°, sitish se E	ttempting unlawfully hrough control of rangement, or other ixhibit II a statement relating	Yes	⊠ No
(c) Has the Filer, or any party to this application, controlling the Filer ever been convicted of a Court? If "YES", attack as Exhibit III a statement relating	felony by an	on directly or indirectly by state or Federal	Yes	⊠ No
(d) is the Filer, or any person directly or indirectly a party in any matter referred to items 7(b) a Exhibit N a statement relating the facts.	y controlling nd 7(c)? <i>If "</i> Y	the Filer, presently EST, attack se	Yes	⊠ No
8. Is the Filer, directly or indirectly, through stock currently interested in the ownership or control licensed by this Commission? If "YES", submit as Exhibit licenses's relation to the Filer.	l of any other ibit V the name of	radio stations	⊠ Yes	□ No
			····	
If Filer is an individual (sole proprietorship) o	r partnership	, answer the following all or each member	and Itan	1 11:
9(a) Full Legal Name and Residential Address (Number, Street, State and ZIP Code) of Individual or Partners:		nership a citizen of	☐ Yes	☐ No
		ial or any member of a		

allen or of a foreign government? Yes

☐ Nc

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It Filer is a corporation,	answer the fo	liowing and Item 11:			
10(a) Attach as Exhibit VI t and/or voting 10 per	he names, addi	resses, and citizenship of thosof the Filer's voting stock and ne beneficiary(les) or class of	the percentages	wning of so held.	record In the
See	Exhibit VI.				
Filer.	S Exhibit VII th Exhibit VII.	e names and addresses of the	officers and dir	ectors o	f the
If "YES", attach as Exhibit VIII and completely identifies the nabusiness of the controlling corporities the same citizenship of those stockholders (3) the approximate percentage addresses fo the president and	a statement (includ iture and extent of oration and any int helding 10 percent of total voting sto		printe) which fully ddress and primary ddresses, and voting stock:	⊠ Yes	□ No
(d) is any officer or direct				Yes	☑ No
(e) is more than one-fifth voted by aliens or their	of the capital representative	stock of the Filer owned of r s, or by a foreign governmen ganized under the laws of a	t or representa-	Yes	⊠ No
any officer or more that foreign corporation or a	in one-fourth corporation of d by aliens or	oiled: (1) by any other corpora of the directors are allens, or which more than one-fourth their representatives, or by a !.	(2) by any	Yes	⊠ No
(g) If any answer to question aliens or foreign entities they own or vote.	one (d), (e) or ((f) is "YES", attach as Exhibit ity, their relationship to the F	IX a statement id lier, and the perc	entifying entage o	the f stock
		11. CERTIFICATION			
pilcation for, or Commission app	irt thereof. The proval of, any to bby cartifies that	pplication which cross—references ownership information contained in ransfer of control or assignment of t the statements made herein are good faith.	this report does not redict feelilties. The	rt constitut	e an ap-
WILLFUL FALSE STATEMENTS MADE ON THIS APPLICATION ARE PUNISHABLE BY FINE AND IMPRISONMENT (U.S. Code,	Date 7/17/90	Filer (Must correspond with that shown in item) Satellite CD Radio, Inc.	Typed or Printed N Peter Dolan	arne .	
Title 18, Section 1001) and/or REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)).	Signature		THE President		
NOTICE TO INDIVIDUAL OF DEC			L.		

NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

The solicitation of personal information requested in this form is to determine if you are qualified to become or remain a licensee in a common carrier or satellite radio service pursuant to the Communications Act of 1934, as amended. No authorization can be granted unless all information requested is provided. Your response is required to obtain the requested authorization or retain an authorization.

Public reporting burden 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 data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Communications Commission, Office of Managing Director, Washington, DC 20554, and to Office of Management and Budget, Paperwork Reduction Project (3060-0105), Washington, DC 20503.