

MINOR CHANGE APPLICATION
MILLER COMMUNICATIONS, INC.
WWBD (FM) RADIO STATION
CH 239C3 - 95.7 MHZ - 25.0 KW
BAMBERG, SOUTH CAROLINA
March 2003

EXHIBIT A

Shortspaced Facilities Utilizing Section 73.215

The WWBD proposed antenna location will be shortspaced to one other FM broadcast facility, WIXV, Channel 238C1, Savannah, Georgia.¹ The detailed spacing information with regard to this station is shown on Exhibit A1. Miller Broadcasting, Inc., proposes to use the provisions of §73.215 of the Commission's rules to address this shortspaced situation. The shortage to this facility complies with §73.215(e) of the Commission's rules. The provisions of §73.215 will be met by specifying less than maximum Class C3 height and use of a directional FM antenna system.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed WWBD and either the licensed or construction permit WIXV facilities. The contours of both WIXV facilities are based on a maximum effective radiated power of 100.0 kilowatts at 299 meters height above average terrain.² Attached as Exhibits A3 through A6 are the tabulated distances to the protected and interfering contours, along pertinent arcs, of the proposed WWBD and both the licensed and construction permitted WIXV. Further, attached as Exhibit A7 are the tabulated and protected contours of the proposed facility, in ten degree increments. Again, there is no prohibited overlap between the facilities.

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- 1) The proposed WWBD site is shortspaced to WIXV, Savannah, Georgia (both licensed and permitted).
 - 2) The WIXV licensed facility operates with a power of 100 kW and a height above average terrain of 261 meters, while the WIXV construction permit specifies operation with 98 kW and a height above average terrain of 301 meters. As such, the respective antenna centers of radiation were analyzed at a HAAT of 299 meters with the CP power adjusted to 100.0 kilowatts for this §73.215 analysis.

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EXHIBIT A1

Site Spacing Study for Channel 239C3 Bamberg, South Carolina
Using Proposed Site As Reference

REFERENCE				CLASS = C3		DISPLAY DATES	
33 18 40 N						DATA 03-28-03	
81 04 55 W				Current Spacings		SEARCH 03-31-03	
----- Channel 239 - 95.7 MHz -----							
Call	Channel	Location		Dist	Azi	FCC	Margin
N. Lat.	W. Lng.	Ant	Power	HAAT			

WWBD	LIC 239A	Bamberg	SC	0.44	45.1	142.0	-141.56
33 18 50	81 04 43	C	6.000 kW	94 M			
Tri-county Communications				BLH-19970811KC			
* WIXV	LIC 238C1	Savannah	GA	141.00	189.9	144.0	-3.00
32 03 30	81 20 20	CN	100.000 kW	261 M			
Cumulus Licensing Corp.				BLH-19870414KO			
* WIXV.C	CP 238C1	Savannah	GA	141.03	189.9	144.0	-2.97
32 03 29	81 20 19	CX	98.000 kW	301 M			
Cumulus Licensing Corp.				BPH-20020930ABB			
WXRC	LIC-D 239C	Hickory	NC	237.76	0.4	237.0	0.76
35 27 16	81 03 46	DCN	100.000 kW	311 M			
Pacific Broadcasting Group				BLH-19890616KE			
WIBZ	LIC 238A	Wedgfield	SC	95.36	41.8	89.0	6.36
33 56 56	80 23 34	CX	4.400 kW	118 M			
Miller Communications, Inc				BLH-20020606AAY			
WQZY	LIC-N 240C1	Dublin	GA	154.71	243.3	144.0	10.71
32 40 42	82 33 26	NCN	88.000 kW	312 M			
State Broadcasting Corp.				BLH-19930719KE			
WKML	LIC-D 239C0	Lumberton	NC	248.82	48.4	226.0	22.82
34 46 50	79 02 45	DEN	100.000 kW	318 M			
Wkml License Limited Part.				BLH-19971024KA			
WFMV	LIC-Z 237A	South Congaree	SC	66.59	348.6	42.0	24.59
33 53 58	81 13 29	ZC	6.000 kW	100 M			
Glory Communications				BLH-20010725AEF			
WKSP	LIC 242C2	Aiken	SC	88.78	298.2	56.0	32.78
33 41 06	81 55 36	CX	17.500 kW	258 M			
Capstar Tx Limited Part.				BLH-20020611AAU			
WSSXFM	LIC 236C0	Charleston	SC	129.25	116.0	87.0	42.25
32 47 44	79 50 27	CN	100.000 kW	305 M			
Citadel Broadcasting Co.				BLH-19900924KC			
WAVF	LIC 241C1	Hanahan	SC	128.61	114.9	76.0	52.61
32 49 04	79 50 08	CN	100.000 kW	164 M			
Apex Broadcasting, Inc.				BLH-19850404KT			

* Note : This shortage is addressed under §73.215 of the rules.

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

WWBD - Proposed

Latitude: 33-18-40 N
Longitude: 081-04-55 W
ERP: 25.00 kW
Channel: 239
Frequency: 95.7 MHz
AMSL Height: 151.0 m
Horiz. Pattern: Directional
60 dBu - 50/50
54 dBu - 50/10

WIXV.C

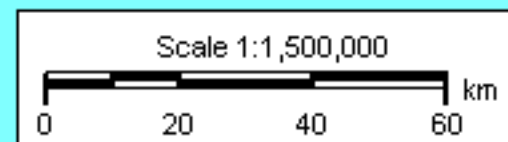
BPH20020930ABB
Latitude: 32-03-29 N
Longitude: 081-20-19 W
ERP: 100.00 kW
Channel: 238
Frequency: 95.5 MHz
AMSL Height: 305.8 m
60 dBu - 50/50
54 dBu - 50/10

WIXV

BLH19870414KO
Latitude: 32-03-30 N
Longitude: 081-20-20 W
ERP: 100.00 kW
Channel: 238
Frequency: 95.5 MHz
AMSL Height: 306 m
60 dBu - 50/50
54 dBu - 50/10

§73.215 ANALYSIS

EXHIBIT A2
MINOR CHANGE APPLICATION
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BAMBERG, SOUTH CAROLINA
March 2003

EXHIBIT A3

WWBD - Proposed
Channel = 239C3
Max ERP = 25 kW
RCAMSL = 151 M
N. Lat = 331840
W. Lng = 810455

WIXV - BLH-19870414KO
Channel = 238C1
Max ERP = 100 kW
RCAMSL = 306 M
N. Lat = 32 03 30
W. Lng = 81 20 20

Protected
60 dBu

Interfering
54 dBu

30 Sec. Terrain Data

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
165.0	018.0625	0106.6	037.5	018.1	100.0000	0300.0	108.1	53.1
166.0	017.6400	0107.0	037.4	017.8	100.0000	0300.0	107.8	53.2
167.0	017.2225	0107.1	037.2	017.4	100.0000	0299.9	107.7	53.2
168.0	016.8100	0107.1	037.0	017.1	100.0000	0299.9	107.5	53.3
169.0	016.4025	0106.8	036.8	016.7	100.0000	0299.9	107.4	53.3
170.0	016.0000	0106.7	036.6	016.4	100.0000	0299.8	107.3	53.3
171.0	015.8006	0106.7	036.5	016.0	100.0000	0299.8	107.1	53.4
172.0	015.6025	0106.7	036.4	015.7	100.0000	0299.8	106.9	53.4
173.0	015.4056	0106.7	036.3	015.4	100.0000	0299.6	106.8	53.5
174.0	015.2100	0106.5	036.2	015.0	100.0000	0299.6	106.7	53.5
175.0	015.0156	0106.3	036.0	014.7	100.0000	0299.6	106.6	53.5
176.0	014.8225	0106.1	035.9	014.3	100.0000	0299.3	106.5	53.6
177.0	014.6306	0105.8	035.8	014.0	100.0000	0299.3	106.4	53.6
178.0	014.4400	0105.8	035.7	013.7	100.0000	0299.3	106.4	53.6
179.0	014.2506	0105.8	035.5	013.3	100.0000	0299.1	106.3	53.6
180.0	014.0625	0105.7	035.4	013.0	100.0000	0299.1	106.3	53.6
181.0	014.0625	0105.5	035.4	012.7	100.0000	0299.1	106.2	53.6
182.0	014.0625	0105.1	035.3	012.3	100.0000	0299.0	106.1	53.7
183.0	014.0625	0104.6	035.3	012.0	100.0000	0299.0	106.1	53.7
184.0	014.0625	0104.2	035.2	011.7	100.0000	0299.0	106.1	53.7
185.0	014.0625	0103.8	035.1	011.4	100.0000	0298.9	106.0	53.7
186.0	014.0625	0103.6	035.1	011.0	100.0000	0298.9	106.0	53.7
187.0	014.0625	0103.3	035.1	010.7	100.0000	0298.9	106.0	53.7
188.0	014.0625	0103.1	035.0	010.4	100.0000	0298.9	106.0	53.7
189.0	014.0625	0102.9	035.0	010.0	100.0000	0298.9	106.0	53.7
190.0	014.0625	0102.6	034.9	009.7	100.0000	0298.9	106.1	53.7
191.0	014.2506	0102.0	035.0	009.4	100.0000	0298.9	106.1	53.7
192.0	014.4400	0101.2	034.9	009.1	100.0000	0298.9	106.1	53.7
193.0	014.6306	0100.4	034.9	008.7	100.0000	0298.9	106.2	53.6
194.0	014.8225	0099.7	034.9	008.4	100.0000	0298.9	106.2	53.6
195.0	015.0156	0099.3	034.9	008.1	100.0000	0298.9	106.3	53.6
196.0	015.2100	0099.0	035.0	007.8	100.0000	0298.9	106.3	53.6
197.0	015.4056	0098.7	035.0	007.4	100.0000	0299.2	106.3	53.6
198.0	015.6025	0098.4	035.1	007.1	100.0000	0299.2	106.4	53.6
199.0	015.8006	0098.1	035.1	006.8	100.0000	0299.2	106.5	53.6
200.0	016.0000	0097.8	035.2	006.5	100.0000	0299.5	106.6	53.5
201.0	016.4025	0097.5	035.3	006.1	100.0000	0299.5	106.6	53.5
202.0	016.8100	0097.3	035.5	005.8	100.0000	0299.5	106.6	53.5
203.0	017.2225	0097.2	035.7	005.4	100.0000	0299.6	106.6	53.5
204.0	017.6400	0097.2	035.9	005.1	100.0000	0299.6	106.6	53.5
205.0	018.0625	0097.2	036.0	004.7	100.0000	0299.6	106.6	53.5

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EXHIBIT A4

WIXV - BLH-19870414KO
Channel = 238C1
Max ERP = 100 kW
RCAMSL = 306 M
N. Lat = 32 03 30
W. Lng = 81 20 20

WWBD - Proposed
Channel = 239C3
Max ERP = 25 kW
RCAMSL = 151 M
N. Lat = 331840
W. Lng = 810455

Protected
60 dBu

Interfering
54 dBu

30 Sec. Terrain Data

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
349.0	100.0000	0299.5	072.3	209.1	019.8483	0095.2	077.7	47.4
350.0	100.0000	0299.1	072.3	208.4	019.5186	0096.1	077.0	47.6
351.0	100.0000	0298.5	072.3	207.6	019.1794	0096.1	076.2	47.8
352.0	100.0000	0297.8	072.2	206.8	018.8314	0096.7	075.5	47.9
353.0	100.0000	0297.2	072.2	206.0	018.4786	0097.0	074.9	48.0
354.0	100.0000	0296.9	072.1	205.1	018.1224	0097.2	074.2	48.1
355.0	100.0000	0296.6	072.1	204.3	017.7613	0097.2	073.6	48.2
356.0	100.0000	0296.6	072.1	203.4	017.3977	0097.2	073.0	48.3
357.0	100.0000	0296.9	072.1	202.5	017.0327	0097.2	072.4	48.4
358.0	100.0000	0297.3	072.2	201.6	016.6630	0097.3	071.9	48.5
359.0	100.0000	0297.6	072.2	200.7	016.2889	0097.5	071.4	48.5
000.0	100.0000	0298.0	072.2	199.8	015.9555	0097.8	070.9	48.6
001.0	100.0000	0298.3	072.3	198.8	015.7643	0098.1	070.5	48.7
002.0	100.0000	0298.7	072.3	197.8	015.5709	0098.4	070.1	48.8
003.0	100.0000	0299.0	072.3	196.8	015.3754	0098.7	069.7	48.8
004.0	100.0000	0299.3	072.3	195.8	015.1782	0099.0	069.4	48.9
005.0	100.0000	0299.6	072.3	194.8	014.9798	0099.3	069.2	48.9
006.0	100.0000	0299.5	072.3	193.8	014.7802	0099.7	069.0	48.9
007.0	100.0000	0299.2	072.3	192.7	014.5803	0100.4	068.9	48.9
008.0	100.0000	0298.9	072.3	191.7	014.3810	0101.2	068.8	49.0
009.0	100.0000	0298.9	072.3	190.6	014.1826	0102.0	068.7	49.0
010.0	100.0000	0298.9	072.3	189.6	014.0625	0102.6	068.7	49.0
011.0	100.0000	0298.9	072.3	188.5	014.0625	0102.9	068.7	49.0
012.0	100.0000	0299.0	072.3	187.5	014.0625	0103.3	068.8	49.0
013.0	100.0000	0299.1	072.3	186.4	014.0625	0103.6	068.9	49.0
014.0	100.0000	0299.3	072.3	185.4	014.0625	0103.8	069.1	48.9
015.0	100.0000	0299.6	072.4	184.4	014.0625	0104.2	069.3	48.9
016.0	100.0000	0299.8	072.4	183.4	014.0625	0104.6	069.5	48.8
017.0	100.0000	0299.9	072.4	182.3	014.0625	0105.1	069.8	48.8
018.0	100.0000	0300.0	072.4	181.3	014.0625	0105.5	070.1	48.7
019.0	100.0000	0300.0	072.4	180.4	014.0625	0105.7	070.5	48.6
020.0	100.0000	0300.0	072.4	179.4	014.1750	0105.8	070.9	48.5
021.0	100.0000	0300.0	072.4	178.5	014.3533	0105.8	071.4	48.4
022.0	100.0000	0300.0	072.4	177.5	014.5292	0105.8	071.9	48.3
023.0	100.0000	0300.0	072.4	176.6	014.7021	0105.8	072.4	48.2
024.0	100.0000	0300.0	072.4	175.7	014.8719	0106.1	073.0	48.1
025.0	100.0000	0300.0	072.4	174.9	015.0383	0106.3	073.6	48.0
026.0	100.0000	0300.0	072.4	174.0	015.2012	0106.5	074.3	47.9
027.0	100.0000	0300.0	072.4	173.2	015.3602	0106.7	075.0	47.7
028.0	100.0000	0300.0	072.4	172.4	015.5153	0106.7	075.7	47.5
029.0	100.0000	0300.0	072.4	171.7	015.6663	0106.7	076.4	47.4
030.0	100.0000	0300.0	072.4	170.9	015.8130	0106.7	077.2	47.2

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BAMBERG, SOUTH CAROLINA
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EXHIBIT A5

WWBD - Proposed
Channel = 239C3
Max ERP = 25 kW
RCAMSL = 151 M
N. Lat = 331840
W. Lng = 810455

WIXV CP - BPH-20020930ABB
Channel = 238C1
Max ERP = 100 kW
RCAMSL = 305.8 M
N. Lat = 32 03 29
W. Lng = 81 20 19

Protected
60 dBu

Interfering
54 dBu

30 Sec. Terrain Data

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
165.0	018.0625	0106.6	037.5	018.1	100.0000	0299.8	108.1	53.1
166.0	017.6400	0107.0	037.4	017.7	100.0000	0299.8	107.9	53.2
167.0	017.2225	0107.1	037.2	017.4	100.0000	0299.7	107.7	53.2
168.0	016.8100	0107.1	037.0	017.0	100.0000	0299.7	107.5	53.3
169.0	016.4025	0106.8	036.8	016.7	100.0000	0299.7	107.4	53.3
170.0	016.0000	0106.7	036.6	016.3	100.0000	0299.6	107.3	53.3
171.0	015.8006	0106.7	036.5	016.0	100.0000	0299.6	107.1	53.4
172.0	015.6025	0106.7	036.4	015.7	100.0000	0299.6	107.0	53.4
173.0	015.4056	0106.7	036.3	015.3	100.0000	0299.4	106.8	53.5
174.0	015.2100	0106.5	036.2	015.0	100.0000	0299.4	106.7	53.5
175.0	015.0156	0106.3	036.0	014.7	100.0000	0299.4	106.6	53.5
176.0	014.8225	0106.1	035.9	014.3	100.0000	0299.2	106.5	53.5
177.0	014.6306	0105.8	035.8	014.0	100.0000	0299.2	106.5	53.6
178.0	014.4400	0105.8	035.7	013.7	100.0000	0299.2	106.4	53.6
179.0	014.2506	0105.8	035.5	013.3	100.0000	0299.0	106.3	53.6
180.0	014.0625	0105.7	035.4	013.0	100.0000	0299.0	106.3	53.6
181.0	014.0625	0105.5	035.4	012.7	100.0000	0299.0	106.2	53.6
182.0	014.0625	0105.1	035.3	012.3	100.0000	0298.8	106.1	53.6
183.0	014.0625	0104.6	035.3	012.0	100.0000	0298.8	106.1	53.7
184.0	014.0625	0104.2	035.2	011.7	100.0000	0298.8	106.1	53.7
185.0	014.0625	0103.8	035.1	011.3	100.0000	0298.7	106.1	53.7
186.0	014.0625	0103.6	035.1	011.0	100.0000	0298.7	106.0	53.7
187.0	014.0625	0103.3	035.1	010.7	100.0000	0298.7	106.0	53.7
188.0	014.0625	0103.1	035.0	010.3	100.0000	0298.7	106.0	53.7
189.0	014.0625	0102.9	035.0	010.0	100.0000	0298.7	106.0	53.7
190.0	014.0625	0102.6	034.9	009.7	100.0000	0298.7	106.1	53.7
191.0	014.2506	0102.0	035.0	009.4	100.0000	0298.7	106.1	53.7
192.0	014.4400	0101.2	034.9	009.0	100.0000	0298.7	106.1	53.6
193.0	014.6306	0100.4	034.9	008.7	100.0000	0298.7	106.2	53.6
194.0	014.8225	0099.7	034.9	008.4	100.0000	0298.7	106.2	53.6
195.0	015.0156	0099.3	034.9	008.1	100.0000	0298.7	106.3	53.6
196.0	015.2100	0099.0	035.0	007.7	100.0000	0298.7	106.3	53.6
197.0	015.4056	0098.7	035.0	007.4	100.0000	0299.0	106.4	53.6
198.0	015.6025	0098.4	035.1	007.1	100.0000	0299.0	106.4	53.6
199.0	015.8006	0098.1	035.1	006.8	100.0000	0299.0	106.5	53.5
200.0	016.0000	0097.8	035.2	006.4	100.0000	0299.2	106.6	53.5
201.0	016.4025	0097.5	035.3	006.1	100.0000	0299.2	106.6	53.5
202.0	016.8100	0097.3	035.5	005.8	100.0000	0299.2	106.6	53.5
203.0	017.2225	0097.2	035.7	005.4	100.0000	0299.4	106.6	53.5
204.0	017.6400	0097.2	035.9	005.1	100.0000	0299.4	106.6	53.5
205.0	018.0625	0097.2	036.0	004.7	100.0000	0299.4	106.7	53.5

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EXHIBIT A6

WIXV CP - BPH-20020930ABB
Channel = 238C1
Max ERP = 100 kW
RCAMSL = 305.8 M
N. Lat = 32 03 29
W. Lng = 81 20 19

WWBD - Proposed
Channel = 239C3
Max ERP = 25 kW
RCAMSL = 151 M
N. Lat = 331840
W. Lng = 810455

Protected
60 dBu

Interfering
54 dBu

30 Sec. Terrain Data

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
350.0	100.0000	0298.8	072.3	208.3	019.5024	0096.1	077.0	47.6
351.0	100.0000	0298.3	072.2	207.6	019.1634	0096.1	076.3	47.7
352.0	100.0000	0297.6	072.2	206.8	018.8155	0096.7	075.6	47.9
353.0	100.0000	0297.0	072.2	205.9	018.4634	0097.0	074.9	48.0
354.0	100.0000	0296.7	072.1	205.1	018.1074	0097.2	074.3	48.1
355.0	100.0000	0296.5	072.1	204.3	017.7472	0097.2	073.6	48.2
356.0	100.0000	0296.5	072.1	203.4	017.3841	0097.2	073.0	48.3
357.0	100.0000	0296.8	072.1	202.5	017.0194	0097.2	072.5	48.4
358.0	100.0000	0297.1	072.2	201.6	016.6499	0097.3	071.9	48.4
359.0	100.0000	0297.5	072.2	200.7	016.2761	0097.5	071.4	48.5
000.0	100.0000	0297.8	072.2	199.7	015.9493	0097.8	070.9	48.6
001.0	100.0000	0298.2	072.2	198.8	015.7582	0098.1	070.5	48.7
002.0	100.0000	0298.5	072.3	197.8	015.5647	0098.4	070.1	48.7
003.0	100.0000	0298.9	072.3	196.8	015.3694	0098.7	069.8	48.8
004.0	100.0000	0299.1	072.3	195.8	015.1724	0099.0	069.5	48.9
005.0	100.0000	0299.4	072.3	194.8	014.9742	0099.3	069.2	48.9
006.0	100.0000	0299.2	072.3	193.8	014.7746	0099.7	069.0	48.9
007.0	100.0000	0299.0	072.3	192.7	014.5749	0100.4	068.9	48.9
008.0	100.0000	0298.7	072.3	191.7	014.3757	0101.2	068.8	48.9
009.0	100.0000	0298.7	072.3	190.6	014.1776	0102.0	068.8	48.9
010.0	100.0000	0298.7	072.3	189.6	014.0625	0102.6	068.7	48.9
011.0	100.0000	0298.7	072.3	188.5	014.0625	0102.9	068.8	49.0
012.0	100.0000	0298.8	072.3	187.5	014.0625	0103.3	068.8	49.0
013.0	100.0000	0299.0	072.3	186.4	014.0625	0103.6	068.9	48.9
014.0	100.0000	0299.2	072.3	185.4	014.0625	0103.8	069.1	48.9
015.0	100.0000	0299.4	072.3	184.4	014.0625	0104.2	069.3	48.9
016.0	100.0000	0299.6	072.4	183.3	014.0625	0104.6	069.5	48.8
017.0	100.0000	0299.7	072.4	182.3	014.0625	0105.1	069.8	48.8
018.0	100.0000	0299.8	072.4	181.3	014.0625	0105.5	070.2	48.7
019.0	100.0000	0299.8	072.4	180.3	014.0625	0105.7	070.5	48.6
020.0	100.0000	0299.8	072.4	179.4	014.1781	0105.8	071.0	48.5
021.0	100.0000	0299.8	072.4	178.4	014.3563	0105.8	071.4	48.4
022.0	100.0000	0299.8	072.4	177.5	014.5320	0105.8	071.9	48.3
023.0	100.0000	0299.8	072.4	176.6	014.7047	0105.8	072.5	48.2
024.0	100.0000	0299.8	072.4	175.7	014.8744	0106.1	073.1	48.1
025.0	100.0000	0299.8	072.4	174.9	015.0407	0106.3	073.7	48.0
026.0	100.0000	0299.8	072.4	174.0	015.2033	0106.5	074.3	47.8
027.0	100.0000	0299.8	072.4	173.2	015.3623	0106.7	075.0	47.7
028.0	100.0000	0299.8	072.4	172.4	015.5172	0106.7	075.7	47.5
029.0	100.0000	0299.8	072.4	171.7	015.6680	0106.7	076.5	47.4
030.0	100.0000	0299.8	072.4	170.9	015.8147	0106.7	077.3	47.2
031.0	100.0000	0299.8	072.4	170.2	015.9569	0106.7	078.1	47.0

MINOR CHANGE APPLICATION
MILLER COMMUNICATIONS, INC.
WWBD (FM) RADIO STATION
CH 239C3 - 95.7 MHZ - 25.0 KW
BAMBERG, SOUTH CAROLINA
March 2003

EXHIBIT A7

Predicted contours:

N. Lat. = 33 18 40 - Tabulated Protected and Interfering Contours
W. Lng. = 81 04 55 - WWBD Radio Station, Bamberg, South Carolina

HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Azi.	AV EL	HAAT	ERP kW	dBk	100-F1	70-F5	60-F5	54-F1	40-F1
000	61.9	89.1	25.0000	13.98	3.83	21.95	37.17	58.05	111.69
010	59.9	91.1	25.0000	13.98	3.87	22.19	37.53	58.45	112.04
020	57.1	93.9	25.0000	13.98	3.93	22.53	38.04	59.01	112.55
030	57.5	93.5	25.0000	13.98	3.92	22.48	37.96	58.93	112.47
040	56.1	94.9	25.0000	13.98	3.95	22.65	38.21	59.20	112.72
045	53.3	97.7	25.0000	13.98	4.01	22.97	38.69	59.73	113.21
050	51.6	99.4	25.0000	13.98	4.05	23.17	38.99	60.07	113.53
060	47.9	103.1	25.0000	13.98	4.13	23.58	39.58	60.74	114.18
070	45.1	105.9	25.0000	13.98	4.18	23.88	40.03	61.25	114.68
080	41.8	109.2	25.0000	13.98	4.25	24.23	40.53	61.84	115.27
090	41.0	110.0	25.0000	13.98	4.26	24.30	40.64	61.97	115.40
100	41.1	109.9	25.0000	13.98	4.26	24.29	40.63	61.96	115.39
110	43.4	107.6	25.0000	13.98	4.22	24.06	40.28	61.55	114.98
120	43.1	107.9	25.0000	13.98	4.22	24.09	40.33	61.60	115.03
130	40.7	110.3	25.0000	13.98	4.27	24.34	40.69	62.03	115.47
135	39.7	111.3	25.0000	13.98	4.29	24.44	40.84	62.21	115.64
140	37.2	113.8	25.0000	13.98	4.33	24.68	41.20	62.64	116.08
150	42.2	108.8	25.0000	13.98	4.24	24.18	40.47	61.77	115.20
160	44.8	106.2	20.2500	13.06	3.95	22.79	38.39	58.73	109.83
170	44.3	106.7	16.0000	12.04	3.72	21.61	36.61	56.08	104.90
180	45.3	105.7	14.0625	11.48	3.57	20.86	35.44	54.44	102.18
190	48.4	102.6	14.0625	11.48	3.51	20.54	34.95	53.88	101.66
200	53.2	97.8	16.0000	12.04	3.56	20.68	35.18	54.47	103.42
210	56.9	94.1	20.2500	13.06	3.73	21.47	36.41	56.51	107.77
220	60.3	90.7	25.0000	13.98	3.87	22.14	37.45	58.37	111.97
225	60.4	90.6	25.0000	13.98	3.86	22.14	37.44	58.35	111.96
230	60.0	91.0	25.0000	13.98	3.87	22.19	37.52	58.44	112.03
240	61.9	89.1	25.0000	13.98	3.83	21.96	37.18	58.06	111.70
250	64.2	86.8	25.0000	13.98	3.78	21.67	36.74	57.58	111.28
260	66.1	84.9	25.0000	13.98	3.74	21.44	36.38	57.18	110.95
270	67.0	84.0	25.0000	13.98	3.72	21.32	36.20	56.98	110.79
280	69.4	81.6	25.0000	13.98	3.67	21.01	35.71	56.43	110.34
290	74.8	76.2	25.0000	13.98	3.54	20.31	34.61	55.19	109.37
300	71.1	79.9	25.0000	13.98	3.63	20.80	35.38	56.07	110.05
310	64.4	86.6	25.0000	13.98	3.78	21.65	36.70	57.54	111.25
315	61.1	89.9	25.0000	13.98	3.85	22.05	37.31	58.21	111.83
320	57.9	93.1	25.0000	13.98	3.92	22.44	37.90	58.86	112.41
330	57.5	93.5	25.0000	13.98	3.93	22.49	37.97	58.94	112.48
340	57.8	93.2	25.0000	13.98	3.92	22.45	37.91	58.88	112.42
350	60.7	90.3	25.0000	13.98	3.86	22.11	37.40	58.30	111.91

Ave El= 53.71 M HAAT= 97.28 M AMSL= 151 (based on 8 Cardinal Radials)