

MINOR CHANGE APPLICATION
MILLER COMMUNICATIONS, INC.
WQKI-FM RADIO STATION
CH 239A - 95.7 MHZ - 4.0 KW
ORANGEBURG, SOUTH CAROLINA
April 2015

EXHIBIT A

The proposed WQKI-FM on Channel 239A will be shortspaced to two facilities: WMXZ, Channel 240C2, Isle of Palms, South Carolina and WIBZ, Channel 238A, Wedgefield, South Carolina. The detailed spacing information is shown on Exhibit A1. Miller proposes to use a directional antenna to address these shortspaced situations. The shortages comply with §73.215(e) of the Commission's rules.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed WQKI-FM and WMXZ or WIBZ. The contours of WIBZ are based on equivalent maximum Class A facilities of 6.0 kilowatts at 100.0 meters HAAT. The contours of WMXZ are based on its licensed facilities, as WMXZ was granted pursuant to §73.215. Attached as Exhibits A3 through A6 are the tabulated distances to the protected and interfering contours, along the pertinent arcs, of the proposed WQKI-FM and WMXZ and WIBZ. 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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EXHIBIT A1

Clearance Study for WQKI-FM Orangeburg, South Carolina
Using Proposed/Present Site as Reference

REFERENCE		DISPLAY DATES
33 26 35.0 N.	CLASS = A	DATA 04-17-15
80 48 16.0 W.	Current Spacings to 3rd Adj.	SEARCH 04-17-15
----- Channel 239 - 95.7 MHz -----		

Call Lat.	Channel Lng.	Location Ant	Power	Azi HAAT	Dist	FCC	Margin
WQKI-FM 33 27 13.0	RSV-A 239A 80 57 15.0	Orangeburg	SC 6.000 kW	274.9 100 M	13.97	114.5	-100.5
Miller Communications, Inc							
* WMXZ	LIC-N 240C2	Isle Of Palms	SC	132.5	101.52	105.5	-4.0
		\$73.215(e) Spacing				88.5	13.0
32 49 27.0	80 00 10.0	NCX	50.000 kW	107 M			
Apex Broadcasting, Inc. BLH20090617ACL							
* WIBZ	LIC 238A	Wedgfield	SC	34.0	67.85	71.5	-3.7
		\$73.215(e) Spacing				48.5	19.4
33 56 56.0	80 23 34.0	CX	4.400 kW	118 M			
Miller Communications, Inc BLH20020606AAY							
WKML	LIC-D 239C0	Lumberton	NC	46.9	219.83	214.5	5.3
34 46 49.0	79 02 45.0	DCX	100.000 kW	318 M			
Beasley Media Group, Llc BMLH20120425ADL							
WXRC	LIC-D 239C0	Hickory	NC	354.0	224.37	214.5	9.9
35 27 16.0	81 03 46.0	DCN	100.000 kW	311 M			
Pacific Broadcasting Group BLH19890616KE							
R15487	ADD 238C0	Savannah	GA	198.0	162.89	151.5	11.4
32 02 45.0	81 20 27.0		100.000 kW	450 M			
Renda Broadcasting Corpora							
WFMV	CP -Z 237A	South Congaree	SC	332.6	54.16	30.5	23.7
33 52 34.0	81 04 28.0	ZCX	6.000 kW	80 M			
Glory Communications, Inc. BPH20120319ABG							
WFMV	APP-Z 237A	South Congaree	SC	329.8	55.24	30.5	24.7
33 52 21.0	81 06 22.0	ZCX	6.000 kW	95 M			
Glory Communications, Inc. BMPH20140709ADD							
WFMV	APP-Z 237A	South Congaree	SC	329.8	55.24	30.5	24.7
33 52 21.0	81 06 22.0	ZCX	6.000 kW	79 M			
Glory Communications, Inc. BMPH20140709ADD							

* Shortage addressed pursuant to \$73.215. See Exhibit A for details.

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EXHIBIT A2

REFERENCE	CH# 239A - 95.7 MHz, Pwr= 4 kW DA, HAAT= 123.3 M,	COR= 178.4 M	DISPLAY DATES
33 26 35.0 N.	Average Protected F(50-50)= 28.3 km		DATA 04-17-15
80 48 16.0 W.	73.215 Directional		SEARCH 04-17-15

CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
239A Orangenburg	WQKI-FM!	RSV-A SC		274.9 94.8	13.97	33 27 13.0 80 57 15.0	6.000 100	87.7 165	29.1 Miller Communications, Inc	-100.5	-96.9
238A Wedgefield	WIBZ^	LIC CX SC		34.0 214.2	67.85 BLH20020606AAY	33 56 56.0 80 23 34.0	6.000 100	44.2 156	28.5 Miller Communications, Inc	0.7	6.0
240C2 Isle Of Palms	WMXZ	LIC NCX SC		132.5 312.9	101.52 BLH20090617ACL	32 49 27.0 80 00 10.0	50.000 107	70.2 109	45.0 Apex Broadcasting, Inc.	2.4	11.7
239C0 Lumberton	WKML«	LIC DCX NC		46.9 227.9	219.83 BMLH20120425ADL	34 46 49.0 79 02 45.0	100.000 318	162.3 368	73.8 Beasley Media Group, Llc	214.5R	5.3M
239C0 Hickory	WXRC«	LIC DCN NC		354.0 173.9	224.37 BLH19890616KE	35 27 16.0 81 03 46.0	100.000 311	176.4 554	75.2 Pacific Broadcasting Group	214.5R	9.9M
238C0 Savannah	R15487«	ADD GA		198.0 17.8	162.89	32 02 45.0 81 20 27.0	100.000 450	124.0 456	83.4 Renda Broadcasting Corpora	151.5R	11.4M
237A South Congaree	WFMV«	CP ZCX SC		332.6 152.5	54.16 BPH20120319ABG	33 52 34.0 81 04 28.0	6.000 80	2.4 160	24.0 Glory Communications, Inc.	30.5R	23.7M
237A South Congaree	WFMV«	APP ZCX SC		329.8 149.6	55.24 BMPH20140709ADD	33 52 21.0 81 06 22.0	6.000 95	2.5 181	25.1 Glory Communications, Inc.	30.5R	24.7M
237A South Congaree	WFMV«	APP ZCX SC		329.8 149.6	55.24 BMPH20140709ADD	33 52 21.0 81 06 22.0	6.000 79	2.3 166	22.8 Glory Communications, Inc.	30.5R	24.7M
237A South Congaree	WFMV«	RSV-A SC		325.7 145.5	58.54	33 52 40.0 81 09 45.0	6.000 100	2.4 203	24.9 Glory Communications, Inc.	30.5R	28.0M
237A South Congaree	WFMV«	RSV-A SC		325.7 145.5	58.54	33 52 40.0 81 09 45.0	6.000 100	2.4 203	24.9 Glory Communications, Inc.	30.5R	28.0M

Terrain database is NED 03 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

In & Out distances between contours are shown at closest points. Reference Zone= - Zone 2, Co to 3rd adjacent.

All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected. Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

« = Station meets FCC minimum distance spacing for its class.

^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

WQKI-FM.A - Orangeburg, SC - Proposed
Latitude: 33-26-35 N - Longitude: 080-48-16 W
Channel: 239 - Frequency: 95.7 MHz
ERP: 4.00 kW - AMSL Height: 178.4 m

WMXZ - Isle Of Palms, SC - BLH20090617ACL
Latitude: 32-49-27 N - Longitude: 080-00-10 W
Channel: 240 - Frequency: 95.9 MHz
ERP: 50.00 kW - AMSL Height: 108.8 m

WIBZ-Max - Wedgefield, SC - BLH20020606AAY
Latitude: 33-56-56 N - Longitude: 080-23-34 W
Channel: 238 - Frequency: 95.5 MHz
ERP: 6.00 kW - AMSL Height: 156.004 m

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

EXHIBIT A3
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60 dBu - FCC 50/50
54 dBu - FCC 50/10

Scale 1:1,000,000
0 10 20 30 km

V-Soft Communications LLC ©

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EXHIBIT A4

WQKI-FM - Proposed
Channel = 239A
Max ERP = 4 kW
RCAMSL = 178.4 M
N. Lat. 33 26 35.0
W. Lng. 80 48 16.0

WMXZ - BLH-20090617ACL
Channel = 240C2
Max ERP = 50 kW
RCAMSL = 108.8 M
N. Lat. 32 49 27.0
W. Lng. 80 00 10.0

Protected
60 dBu

Interfering
54 dBu

Terrain Data: NED 03 SEC

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
114.0	004.0000	0131.1	029.0	320.0	050.0000	0098.2	074.5	52.53	
115.0	004.0000	0131.3	029.1	319.6	050.0000	0098.3	074.3	52.59	
116.0	004.0000	0131.5	029.1	319.3	050.0000	0098.3	074.0	52.66	
117.0	004.0000	0131.8	029.1	318.9	050.0000	0098.4	073.8	52.72	
118.0	004.0000	0131.7	029.1	318.5	050.0000	0098.5	073.7	52.78	
119.0	004.0000	0131.6	029.1	318.2	050.0000	0098.6	073.5	52.83	
120.0	004.0000	0131.5	029.1	317.8	050.0000	0098.7	073.4	52.88	
121.0	004.0000	0131.1	029.0	317.4	050.0000	0098.7	073.3	52.91	
122.0	004.0000	0131.2	029.1	317.0	050.0000	0098.7	073.1	52.95	
123.0	004.0000	0131.6	029.1	316.6	050.0000	0098.7	073.0	53.00	
124.0	004.0000	0132.0	029.1	316.3	050.0000	0099.0	072.8	53.05	
125.0	004.0000	0132.3	029.2	315.9	050.0000	0099.7	072.7	53.13	
126.0	004.0000	0133.0	029.2	315.5	050.0000	0100.1	072.5	53.19	
127.0	004.0000	0133.8	029.3	315.1	050.0000	0100.4	072.4	53.25	
128.0	004.0000	0133.6	029.3	314.7	050.0000	0100.6	072.4	53.28	
129.0	004.0000	0133.2	029.2	314.3	050.0000	0100.8	072.3	53.29	
130.0	004.0000	0132.7	029.2	313.9	050.0000	0100.8	072.4	53.29	
131.0	004.0000	0132.3	029.2	313.5	050.0000	0100.9	072.4	53.28	
132.0	004.0000	0131.8	029.1	313.1	050.0000	0101.1	072.4	53.29	
133.0	004.0000	0131.4	029.1	312.7	050.0000	0101.4	072.5	53.29	
134.0	004.0000	0131.1	029.0	312.3	050.0000	0101.6	072.5	53.29	
135.0	004.0000	0131.1	029.0	311.9	050.0000	0101.8	072.5	53.29	
136.0	004.0000	0130.9	029.0	311.5	050.0000	0102.1	072.6	53.29	
137.0	004.0000	0130.9	029.0	311.1	050.0000	0102.4	072.6	53.29	
138.0	004.0000	0130.7	029.0	310.7	050.0000	0102.8	072.7	53.29	
139.0	004.0000	0130.5	029.0	310.3	050.0000	0103.3	072.8	53.28	
140.0	004.0000	0130.4	029.0	309.9	050.0000	0103.8	072.9	53.28	
141.0	004.0000	0130.4	029.0	309.5	050.0000	0104.4	073.0	53.29	
142.0	004.0000	0130.1	028.9	309.1	050.0000	0104.8	073.2	53.27	
143.0	004.0000	0129.9	028.9	308.7	050.0000	0105.1	073.3	53.24	
144.0	004.0000	0129.8	028.9	308.4	050.0000	0105.3	073.4	53.21	
145.0	004.0000	0129.8	028.9	308.0	050.0000	0105.7	073.6	53.19	
146.0	004.0000	0129.7	028.9	307.6	050.0000	0106.0	073.8	53.15	
147.0	004.0000	0129.8	028.9	307.2	050.0000	0106.0	073.9	53.11	
148.0	004.0000	0130.0	028.9	306.9	050.0000	0106.0	074.1	53.06	
149.0	004.0000	0130.2	029.0	306.5	050.0000	0105.9	074.3	53.00	
150.0	004.0000	0130.5	029.0	306.1	050.0000	0105.8	074.4	52.94	
151.0	004.0000	0130.6	029.0	305.8	050.0000	0105.5	074.6	52.87	
152.0	004.0000	0130.6	029.0	305.4	050.0000	0105.2	074.9	52.79	
153.0	004.0000	0130.7	029.0	305.1	050.0000	0104.8	075.1	52.70	
154.0	004.0000	0130.6	029.0	304.8	050.0000	0104.3	075.4	52.60	

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EXHIBIT A5

WMXZ - BLH-20090617ACL
Channel = 240C2
Max ERP = 50 kW
RCAMSL = 108.8 M
N. Lat. 32 49 27.0
W. Lng. 80 00 10.0

WQKI-FM - Proposed
Channel = 239A
Max ERP = 4 kW
RCAMSL = 178.4 M
N. Lat. 33 26 35.0
W. Lng. 80 48 16.0

Protected
60 dBu

Interfering
54 dBu

Terrain Data: NED 03 SEC

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
294.0	050.0000	0099.9	044.7	146.2	004.0000	0129.7	060.9	47.54	
295.0	050.0000	0100.0	044.8	145.6	004.0000	0129.8	060.4	47.69	
296.0	050.0000	0099.8	044.7	144.9	004.0000	0129.8	060.1	47.82	
297.0	050.0000	0099.7	044.7	144.3	004.0000	0129.8	059.7	47.95	
298.0	050.0000	0100.1	044.8	143.6	004.0000	0129.9	059.3	48.11	
299.0	050.0000	0100.7	044.9	143.0	004.0000	0129.9	058.9	48.27	
300.0	050.0000	0101.2	045.0	142.3	004.0000	0130.1	058.5	48.42	
301.0	050.0000	0101.4	045.0	141.6	004.0000	0130.3	058.2	48.54	
302.0	050.0000	0101.5	045.0	140.9	004.0000	0130.4	057.9	48.66	
303.0	050.0000	0101.7	045.0	140.2	004.0000	0130.4	057.6	48.76	
304.0	050.0000	0102.6	045.2	139.5	004.0000	0130.5	057.3	48.91	
305.0	050.0000	0104.7	045.6	138.8	004.0000	0130.6	056.7	49.12	
306.0	050.0000	0105.7	045.7	138.0	004.0000	0130.7	056.4	49.26	
307.0	050.0000	0106.0	045.8	137.3	004.0000	0130.9	056.2	49.35	
308.0	050.0000	0105.7	045.7	136.4	004.0000	0130.9	056.1	49.38	
309.0	050.0000	0104.9	045.6	135.6	004.0000	0131.0	056.1	49.37	
310.0	050.0000	0103.6	045.4	134.8	004.0000	0131.0	056.2	49.33	
311.0	050.0000	0102.5	045.2	134.0	004.0000	0131.1	056.4	49.28	
312.0	050.0000	0101.8	045.1	133.2	004.0000	0131.3	056.5	49.25	
313.0	050.0000	0101.2	045.0	132.4	004.0000	0131.7	056.6	49.24	
314.0	050.0000	0100.8	044.9	131.6	004.0000	0132.0	056.6	49.22	
315.0	050.0000	0100.5	044.8	130.8	004.0000	0132.4	056.7	49.20	
316.0	050.0000	0099.5	044.7	130.0	004.0000	0132.7	057.0	49.13	
317.0	050.0000	0098.7	044.5	129.3	004.0000	0133.0	057.2	49.06	
318.0	050.0000	0098.7	044.5	128.5	004.0000	0133.4	057.3	49.04	
319.0	050.0000	0098.3	044.5	127.7	004.0000	0133.8	057.5	48.98	
320.0	050.0000	0098.2	044.4	127.0	004.0000	0133.8	057.7	48.91	
321.0	050.0000	0098.1	044.4	126.2	004.0000	0133.3	057.9	48.82	
322.0	050.0000	0098.0	044.4	125.5	004.0000	0132.6	058.1	48.70	
323.0	050.0000	0098.1	044.4	124.8	004.0000	0132.2	058.4	48.59	
324.0	050.0000	0097.9	044.4	124.1	004.0000	0132.0	058.6	48.48	
325.0	050.0000	0097.9	044.4	123.4	004.0000	0131.8	058.9	48.36	
326.0	050.0000	0098.0	044.4	122.6	004.0000	0131.4	059.2	48.24	
327.0	050.0000	0098.2	044.4	121.9	004.0000	0131.2	059.5	48.12	
328.0	050.0000	0098.3	044.5	121.3	004.0000	0131.2	059.8	48.01	
329.0	050.0000	0097.8	044.4	120.6	004.0000	0131.2	060.2	47.85	
330.0	050.0000	0097.2	044.3	120.0	004.0000	0131.4	060.7	47.70	
331.0	050.0000	0097.1	044.2	119.4	004.0000	0131.5	061.1	47.56	

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EXHIBIT A6

WQKI-FM - Proposed
Channel = 239A
Max ERP = 4 kW
RCAMSL = 178.4 M
N. Lat. 33 26 35.0
W. Lng. 80 48 16.0

WIBZ - BLH-20020606AAY
Channel = 238A
Max ERP = 4.4 kW
RCAMSL = 174 M
N. Lat. 33 56 56.0
W. Lng. 80 23 34.0

Protected
60 dBu

Interfering
54 dBu

Terrain Data: NED 03 SEC

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
021.0	001.7902	0122.3	023.6	220.9	004.4000	0119.9	045.2	53.43	
022.0	001.7319	0122.7	023.4	220.4	004.4000	0119.9	045.2	53.43	
023.0	001.6796	0123.3	023.3	219.9	004.4000	0119.8	045.2	53.43	
024.0	001.6231	0123.8	023.2	219.3	004.4000	0119.8	045.2	53.42	
025.0	001.5675	0124.1	023.0	218.8	004.4000	0119.8	045.3	53.40	
026.0	001.5129	0124.2	022.8	218.2	004.4000	0120.1	045.4	53.38	
027.0	001.4593	0124.5	022.7	217.7	004.4000	0120.3	045.5	53.36	
028.0	001.4113	0124.9	022.5	217.2	004.4000	0120.4	045.5	53.34	
029.0	001.3596	0125.2	022.4	216.7	004.4000	0120.4	045.6	53.29	
030.0	001.3087	0125.6	022.2	216.1	004.4000	0120.4	045.8	53.24	
031.0	001.3087	0126.1	022.2	215.7	004.4000	0120.1	045.7	53.25	
032.0	001.3087	0126.6	022.3	215.2	004.4000	0119.7	045.6	53.26	
033.0	001.3087	0126.7	022.3	214.7	004.4000	0119.6	045.6	53.27	
034.0	001.3087	0126.9	022.3	214.2	004.4000	0119.8	045.6	53.28	
035.0	001.3087	0127.1	022.3	213.7	004.4000	0120.0	045.6	53.30	
036.0	001.3087	0127.2	022.3	213.2	004.4000	0120.0	045.6	53.30	
037.0	001.3087	0127.6	022.3	212.7	004.4000	0120.4	045.6	53.32	
038.0	001.3087	0127.8	022.4	212.3	004.4000	0120.9	045.6	53.34	
039.0	001.3087	0128.0	022.4	211.8	004.4000	0121.3	045.6	53.35	
040.0	001.3087	0127.9	022.4	211.3	004.4000	0121.6	045.7	53.35	
041.0	001.3596	0127.9	022.6	210.8	004.4000	0121.8	045.5	53.41	
042.0	001.4113	0128.3	022.8	210.2	004.4000	0121.7	045.4	53.46	
043.0	001.4593	0128.8	023.0	209.7	004.4000	0121.3	045.3	53.49	
044.0	001.5129	0129.3	023.2	209.1	004.4000	0120.9	045.2	53.52	
045.0	001.5675	0129.9	023.5	208.5	004.4000	0120.7	045.0	53.56	
046.0	001.6231	0130.4	023.7	207.9	004.4000	0120.6	045.0	53.59	
047.0	001.6796	0130.4	023.9	207.3	004.4000	0120.5	044.9	53.60	
048.0	001.7319	0129.9	024.0	206.8	004.4000	0120.4	044.9	53.58	
049.0	001.7902	0129.9	024.2	206.2	004.4000	0120.3	044.9	53.58	
050.0	001.8496	0130.2	024.4	205.6	004.4000	0120.2	044.9	53.58	
051.0	001.9432	0130.4	024.7	205.0	004.4000	0120.1	044.8	53.61	
052.0	002.0392	0129.9	024.9	204.3	004.4000	0120.0	044.8	53.60	
053.0	002.1374	0129.6	025.1	203.7	004.4000	0119.9	044.8	53.59	
054.0	002.2380	0129.8	025.4	203.0	004.4000	0119.6	044.8	53.58	
055.0	002.3470	0130.2	025.7	202.4	004.4000	0119.5	044.8	53.59	
056.0	002.4524	0130.5	026.0	201.7	004.4000	0119.6	044.8	53.58	
057.0	002.5600	0130.8	026.3	201.0	004.4000	0119.6	044.8	53.57	
058.0	002.6700	0131.4	026.6	200.3	004.4000	0119.9	044.9	53.57	
059.0	002.7822	0131.7	026.8	199.6	004.4000	0119.7	045.0	53.53	
060.0	002.8968	0131.6	027.1	199.0	004.4000	0119.7	045.1	53.47	

MINOR CHANGE APPLICATION
MILLER COMMUNICATIONS, INC.
WQKI-FM RADIO STATION
CH 239A - 95.7 MHZ - 4.0 KW
ORANGEBURG, SOUTH CAROLINA
April 2015

EXHIBIT A7

WIBZ - BLH-20020606AAY
Channel = 238A
Max ERP = 4.4 kW
RCAMSL = 174 M
N. Lat. 33 56 56.0
W. Lng. 80 23 34.0

WQKI-FM - Proposed
Channel = 239A
Max ERP = 4 kW
RCAMSL = 178.4 M
N. Lat. 33 26 35.0
W. Lng. 80 48 16.0

Protected
60 dBu

Interfering
54 dBu

Terrain Data: NED 03 SEC

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
191.0	004.4000	0121.3	028.7	049.3	001.8055	0130.0	043.0	51.04	
192.0	004.4000	0121.1	028.7	048.7	001.7736	0129.9	042.7	51.08	
193.0	004.4000	0121.0	028.7	048.2	001.7414	0129.9	042.4	51.13	
194.0	004.4000	0121.0	028.7	047.6	001.7113	0130.1	042.2	51.19	
195.0	004.4000	0121.1	028.7	047.0	001.6816	0130.4	041.9	51.25	
196.0	004.4000	0120.0	028.6	046.4	001.6443	0130.5	041.7	51.24	
197.0	004.4000	0119.4	028.6	045.7	001.6086	0130.3	041.5	51.22	
198.0	004.4000	0119.5	028.6	045.1	001.5753	0130.0	041.3	51.22	
199.0	004.4000	0119.7	028.6	044.5	001.5416	0129.7	041.0	51.21	
200.0	004.4000	0119.8	028.6	043.9	001.5077	0129.3	040.8	51.19	
201.0	004.4000	0119.6	028.6	043.2	001.4724	0128.8	040.6	51.15	
202.0	004.4000	0119.5	028.6	042.6	001.4393	0128.6	040.4	51.11	
203.0	004.4000	0119.6	028.6	041.9	001.4073	0128.3	040.3	51.07	
204.0	004.4000	0119.9	028.6	041.3	001.3731	0128.0	040.1	51.04	
205.0	004.4000	0120.1	028.6	040.6	001.3384	0127.9	039.9	50.99	
206.0	004.4000	0120.2	028.6	039.9	001.3087	0127.9	039.8	50.96	
207.0	004.4000	0120.5	028.7	039.2	001.3087	0128.0	039.6	51.03	
208.0	004.4000	0120.6	028.7	038.5	001.3087	0127.9	039.5	51.08	
209.0	004.4000	0120.9	028.7	037.8	001.3087	0127.7	039.4	51.11	
210.0	004.4000	0121.5	028.8	037.1	001.3087	0127.6	039.3	51.17	
211.0	004.4000	0121.7	028.8	036.3	001.3087	0127.3	039.2	51.19	
212.0	004.4000	0121.1	028.7	035.6	001.3087	0127.2	039.2	51.17	
213.0	004.4000	0120.2	028.6	034.9	001.3087	0127.0	039.3	51.13	
214.0	004.4000	0119.9	028.6	034.1	001.3087	0126.9	039.3	51.12	
215.0	004.4000	0119.6	028.6	033.4	001.3087	0126.7	039.3	51.10	
216.0	004.4000	0120.3	028.7	032.7	001.3087	0126.6	039.2	51.12	
217.0	004.4000	0120.4	028.7	032.0	001.3087	0126.6	039.3	51.10	
218.0	004.4000	0120.3	028.6	031.2	001.3087	0126.2	039.3	51.05	
219.0	004.4000	0119.8	028.6	030.5	001.3087	0125.9	039.4	50.98	
220.0	004.4000	0119.9	028.6	029.8	001.3184	0125.6	039.5	50.97	
221.0	004.4000	0119.9	028.6	029.1	001.3545	0125.2	039.6	51.02	
222.0	004.4000	0119.5	028.6	028.4	001.3900	0125.0	039.7	51.06	
223.0	004.4000	0119.2	028.5	027.7	001.4245	0124.8	039.9	51.09	
224.0	004.4000	0118.9	028.5	027.1	001.4568	0124.5	040.1	51.10	
225.0	004.4000	0118.9	028.5	026.4	001.4926	0124.3	040.2	51.12	
226.0	004.4000	0118.5	028.5	025.7	001.5278	0124.2	040.4	51.13	
227.0	004.4000	0118.0	028.4	025.1	001.5623	0124.1	040.6	51.13	
228.0	004.4000	0117.7	028.4	024.5	001.5970	0124.0	040.8	51.12	
229.0	004.4000	0117.6	028.4	023.8	001.6321	0123.8	041.0	51.11	
230.0	004.4000	0117.2	028.3	023.2	001.6655	0123.5	041.3	51.07	
231.0	004.4000	0117.0	028.3	022.7	001.6977	0123.0	041.5	51.02	

MINOR CHANGE APPLICATION
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WQKI-FM RADIO STATION
CH 239A - 95.7 MHZ - 4.0 KW
ORANGEBURG, SOUTH CAROLINA
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EXHIBIT A8

N. Lat. = 33 26 35.0 - Protected and Interfering Contour Data
W. Lng. = 80 48 16.0 - WQKI-FM, Orangeburg, South Carolina

HAAT and Distance to Contour - NED 03 second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	100-F1	60-F5	54-F1	40-F1
000	69.8	108.6	4.0000	6.02	1.000	2.54	26.85	41.09	81.84
010	60.9	117.5	2.8968	4.62	0.851	2.38	25.85	39.29	78.44
020	57.3	121.1	1.8496	2.67	0.680	2.09	23.67	35.54	72.47
030	52.8	125.6	1.3087	1.17	0.572	1.88	22.19	33.00	68.34
040	50.5	127.9	1.3087	1.17	0.572	1.89	22.37	33.30	68.73
050	48.2	130.2	1.8496	2.67	0.680	2.13	24.39	36.72	73.98
060	46.8	131.6	2.8968	4.62	0.851	2.46	27.07	41.16	80.70
070	47.0	131.4	4.0000	6.02	1.000	2.71	29.07	44.39	85.44
080	47.4	131.0	4.0000	6.02	1.000	2.71	29.03	44.34	85.39
090	48.0	130.4	4.0000	6.02	1.000	2.70	28.98	44.26	85.29
100	49.4	129.0	4.0000	6.02	1.000	2.69	28.84	44.06	85.07
110	47.5	130.9	4.0000	6.02	1.000	2.71	29.02	44.31	85.36
120	46.9	131.5	4.0000	6.02	1.000	2.71	29.08	44.40	85.46
130	45.7	132.7	4.0000	6.02	1.000	2.72	29.19	44.55	85.64
140	48.0	130.4	4.0000	6.02	1.000	2.70	28.97	44.25	85.29
150	47.9	130.5	4.0000	6.02	1.000	2.70	28.98	44.26	85.30
160	47.2	131.2	4.0000	6.02	1.000	2.71	29.05	44.35	85.41
170	48.8	129.6	4.0000	6.02	1.000	2.70	28.90	44.15	85.17
180	47.4	131.0	4.0000	6.02	1.000	2.71	29.03	44.33	85.38
190	48.0	130.4	4.0000	6.02	1.000	2.70	28.98	44.26	85.30
200	46.5	131.9	4.0000	6.02	1.000	2.72	29.12	44.45	85.52
210	44.3	134.1	4.0000	6.02	1.000	2.73	29.33	44.74	85.85
220	44.8	133.6	4.0000	6.02	1.000	2.73	29.28	44.67	85.77
230	47.4	131.0	4.0000	6.02	1.000	2.71	29.03	44.33	85.38
240	51.6	126.8	4.0000	6.02	1.000	2.68	28.64	43.78	84.74
250	55.0	123.4	4.0000	6.02	1.000	2.65	28.32	43.33	84.21
260	60.5	117.9	4.0000	6.02	1.000	2.62	27.81	42.57	83.35
270	68.6	109.8	4.0000	6.02	1.000	2.55	26.98	41.30	82.04
280	71.8	106.6	4.0000	6.02	1.000	2.52	26.62	40.73	81.49
290	65.6	112.8	4.0000	6.02	1.000	2.57	27.29	41.79	82.52
300	57.5	120.9	4.0000	6.02	1.000	2.64	28.10	42.99	83.82
310	59.6	118.8	4.0000	6.02	1.000	2.62	27.90	42.71	83.50
320	69.9	108.5	4.0000	6.02	1.000	2.54	26.83	41.07	81.81
330	68.4	110.0	4.0000	6.02	1.000	2.55	26.99	41.32	82.06
340	70.8	107.6	4.0000	6.02	1.000	2.53	26.73	40.91	81.66
350	77.9	100.5	4.0000	6.02	1.000	2.46	25.90	39.58	80.43

AMSL= 178.4 M