

**MINOR CHANGE APPLICATION**  
**ATLANTIC RADIO BROADCASTING, LLC**  
**WRXS (FM) RADIO STATION**  
**CH 295A - 106.9 MHZ - 2.05 KW**  
**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A**

**Shortspaced Facilities Utilizing Section 73.215**

The WRXS proposed antenna location will be shortspaced to three other FM broadcast facilities, WTDK, WKDN and the allocation of Channel 298B1 to Fruitland, Maryland ( Fruitland ). The detailed spacing information with regard to these shortspaces is shown on Exhibit A1. Atlantic Radio Broadcasting, LLC, proposes to use the provisions of §73.215 of the Commission's rules to address these shortspaces. The shortages to these facilities comply with §73.215(e) of the Commission's rules. The provisions of §73.215 will be met by specifying less than maximum Class A facilities.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed WRXS and the authorized WTDK, WKDN and Fruitland. The contours of WTDK are based on 6.0 kilowatts at 100 meters HAAT; the contours of WKDN are based on 50.0 kilowatts at 150 meters HAAT; and the contours of Fruitland are based on 25.0 kilowatts at 100 meters HAAT from the reference site.<sup>1</sup> Attached as Exhibits A3 through A8 are the tabulated distances to the protected and interfering contours, along pertinent arcs, of the proposed WRXS and authorized WTDK, WKDN and Fruitland. Further, attached as Exhibit A9 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 licensed facilities of WTDK specify power of 3.9 kilowatts at 124 meters HAAT; WKDN license specifies 38.0 kilowatts at 168 meters HAAT. The antenna center of radiation was lowered and the power raised to bring these stations to maximum class facilities for the §73.215 analysis.

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**CH 295A - 106.9 MHZ - 2.05 KW**  
**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A1**

CLEARANCE STUDY FOR WRXS OCEAN CITY MARYLAND  
USING PROPOSED SITE AS REFERENCE

REFERENCE	CLASS = A	DISPLAY DATES
38 19 39 N		DATA 06-15-01
75 11 49 W	Current Spacings	SEARCH 06-20-01
----- Channel 295 - 106.9 MHz -----		

Call	Channel	Location	Power	Dist	Azi	FCC	Margin
N. Lat.	W. Lng.				HAAT		
<b>WRXS</b>	<b>LIC 295A</b>	<b>Ocean City</b>	<b>MD</b>	<b>2.61</b>	<b>22.9</b>	<b>115.0</b>	<b>-112.39</b>
<b>38 20 57</b>	<b>75 11 07</b>	<b>DC</b>	<b>6.000 kW</b>		<b>92 M</b>		
		<b>Atlantic Radio Broadcasting</b>	<b>BMLH-20001127AAA</b>				
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* <i>WTDK</i>	<i>LIC 296A</i>	<i>Federalsburg</i>	<i>MD</i>	<i>68.37</i>	<i>315.8</i>	<i>72.0</i>	<i>-3.63</i>
<i>38 46 02</i>	<i>75 44 46</i>	<i>CN</i>	<i>3.900 kW</i>		<i>124 M</i>		
		<i>Mts Broadcasting</i>	<i>BMLH-19891229KA</i>				
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* <i>WKDN</i>	<i>LIC 295B</i>	<i>Camden</i>	<i>NJ</i>	<i>175.79</i>	<i>2.7</i>	<i>178.0</i>	<i>-2.21</i>
<i>39 54 33</i>	<i>75 06 00</i>	<i>CN</i>	<i>38.000 kW</i>		<i>168 M</i>		
		<i>Family Stations, Inc.</i>	<i>BMLED-19980417KA</i>				
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* <i>RADD</i>	<i>ADD 298B1</i>	<i>Fruitland</i>	<i>MD</i>	<i>46.47</i>	<i>251.2</i>	<i>48.0</i>	<i>-1.53</i>
<i>38 11 32</i>	<i>75 41 58</i>		<i>25.000 kW</i>		<i>100 M</i>		
			<i>RM-9761</i>				
-----							
<i>WDOX</i>	<i>LIC 294A</i>	<i>North Cape May</i>	<i>NJ</i>	<i>74.03</i>	<i>18.6</i>	<i>72.0</i>	<i>2.03</i>
<i>38 57 32</i>	<i>74 55 23</i>	<i>CN</i>	<i>3.000 kW</i>		<i>71 M</i>		
		<i>Wjnn, Inc.</i>	<i>BLH-19930602KD</i>				
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** <i>WAFX</i>	<i>LIC 295C0</i>	<i>Suffolk</i>	<i>VA</i>	<i>217.98</i>	<i>219.5</i>	<i>215.0</i>	<i>2.98</i>
<i>36 48 16</i>	<i>76 45 17</i>	<i>CN</i>	<i>100.000 kW</i>		<i>300 M</i>		
		<i>Tidewater Communications</i>	<i>BLH-19890929KC</i>				
-----							
<i>WKHW</i>	<i>LIC 293A</i>	<i>Pocomoke City</i>	<i>MD</i>	<i>40.85</i>	<i>227.1</i>	<i>31.0</i>	<i>9.85</i>
<i>38 04 37</i>	<i>75 32 19</i>	<i>CN</i>	<i>1.800 kW</i>		<i>104 M</i>		
		<i>Great Scott Broadcasting</i>	<i>BLH-19920512KD</i>				
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<i>WKHI</i>	<i>LIC 298B</i>	<i>Exmore</i>	<i>VA</i>	<i>82.14</i>	<i>212.1</i>	<i>69.0</i>	<i>13.14</i>
<i>37 42 01</i>	<i>75 41 36</i>	<i>CN</i>	<i>50.000 kW</i>		<i>82 M</i>		
		<i>Great Scott Broadcasting</i>	<i>BLH-19930928KF</i>				
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<i>RDEL</i>	<i>DEL 298B</i>	<i>Exmore</i>	<i>VA</i>	<i>108.63</i>	<i>215.5</i>	<i>69.0</i>	<i>39.63</i>
<i>37 31 46</i>	<i>75 54 44</i>		<i>50.000 kW</i>		<i>150 M</i>		
			<i>RM-9761</i>				
-----							
<i>WCEMFM APP</i>	<i>292A</i>	<i>Cambridge</i>	<i>MD</i>	<i>82.31</i>	<i>290.6</i>	<i>31.0</i>	<i>51.31</i>
<i>38 35 03</i>	<i>76 04 54</i>	<i>CX</i>	<i>6.000 kW</i>		<i>99 M</i>		
		<i>Mts Broadcasting</i>	<i>BPH-20010202AAZ</i>				
-----							
<i>WCEMFM APP</i>	<i>292A</i>	<i>Cambridge</i>	<i>MD</i>	<i>82.31</i>	<i>290.6</i>	<i>31.0</i>	<i>51.31</i>
<i>38 35 03</i>	<i>76 04 54</i>	<i>DCX</i>	<i>6.000 kW</i>		<i>99 M</i>		
		<i>Mts Broadcasting</i>	<i>BPH-20010606AAB</i>				
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<i>WCEMFM LIC</i>	<i>292A</i>	<i>Cambridge</i>	<i>MD</i>	<i>82.35</i>	<i>290.6</i>	<i>31.0</i>	<i>51.35</i>
<i>38 35 02</i>	<i>76 04 56</i>	<i>DCN</i>	<i>6.000 kW</i>		<i>99 M</i>		
		<i>Mts Broadcasting</i>	<i>BLH-19960617KC</i>				

\* These shortages addressed under \$73.215. See Exhibit A for details.  
\*\* Class C downgraded to Class C0. See Technical Statement for details.

# GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

WKDN 54 dBu (50/50)

## WRXS - Proposed

Latitude: 38-19-39 N  
Longitude: 075-11-49 W  
Power: 2.05 kW  
Channel: 295  
Frequency: 106.9 MHz  
AMSL Height: 120.97 m  
Elevation: 7.0 m

## WTDK

BMLH19891229KA  
Latitude: 38-46-02 N  
Longitude: 075-44-46 W  
Power: 6.00 kW  
Channel: 296  
Frequency: 107.1 MHz  
AMSL Height: 112.693 m

## WKDN

BMLD19980417KA  
Latitude: 39-54-33 N  
Longitude: 075-06-00 W  
Power: 50.00 kW  
Channel: 295  
Frequency: 106.9 MHz  
AMSL Height: 165.058 m

## Fruitland Allocation

RM9761  
Latitude: 38-11-32 N  
Longitude: 075-41-58 W  
Power: 25.00 kW  
Channel: 298  
Frequency: 107.5 MHz  
AMSL Height: 104.386 m

WKDN 40 dBu (50/10)

WTDK 54 dBu (50/10)

WTDK 60 dBu (50/50)

Fruitland 100 dBu (50/10)

Fruitland 57 dBu (50/50)

Proposed WRXS 97 dBu (50/10)

Proposed WRXS 60 dBu (50/50)

Proposed WRXS 54 dBu (50/10)

Proposed WRXS 34 dBu (50/10)

§73.215 ANALYSIS

EXHIBIT A2  
MINOR CHANGE APPLICATION  
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OCEAN CITY, MARYLAND  
June 2001

Scale 1:1,250,000  
0 10 20 30 km

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**June 2001**

**EXHIBIT A3**

WRXS - Proposed  
Channel = 295A  
Max ERP = 2.05 kW  
RCAMSL = 120.97 M  
N. Lat = 381939  
W. Lng = 751149

WTDK BMLH-19891229KA  
Channel = 296A  
Max ERP = 6 kW  
RCAMSL = 114 M  
N. Lat = 38 46 02  
W. Lng = 75 44 46

Protected  
60 dBu

Interfering  
54 dBu

**3 second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
296.0	002.0500	0112.1	023.4	145.2	006.0000	0102.5	046.9	52.9
297.0	002.0500	0112.1	023.4	144.8	006.0000	0102.5	046.7	53.0
298.0	002.0500	0112.1	023.4	144.3	006.0000	0102.3	046.6	53.1
299.0	002.0500	0112.0	023.4	143.9	006.0000	0102.3	046.4	53.1
300.0	002.0500	0112.0	023.4	143.4	006.0000	0102.1	046.2	53.2
301.0	002.0500	0112.0	023.4	142.9	006.0000	0102.1	046.1	53.3
302.0	002.0500	0111.9	023.4	142.5	006.0000	0102.0	045.9	53.3
303.0	002.0500	0111.8	023.4	142.0	006.0000	0102.0	045.8	53.4
304.0	002.0500	0111.8	023.4	141.5	006.0000	0102.0	045.7	53.4
305.0	002.0500	0111.8	023.4	141.0	006.0000	0102.0	045.5	53.4
306.0	002.0500	0111.7	023.4	140.5	006.0000	0102.0	045.4	53.5
307.0	002.0500	0111.7	023.4	140.0	006.0000	0102.0	045.3	53.5
308.0	002.0500	0111.6	023.4	139.5	006.0000	0102.0	045.3	53.6
309.0	002.0500	0111.6	023.4	139.0	006.0000	0102.1	045.2	53.6
310.0	002.0500	0111.6	023.4	138.5	006.0000	0102.1	045.1	53.6
311.0	002.0500	0111.5	023.4	138.0	006.0000	0102.1	045.1	53.6
312.0	002.0500	0111.5	023.4	137.5	006.0000	0102.1	045.0	53.6
313.0	002.0500	0111.4	023.4	136.9	006.0000	0102.1	045.0	53.7
314.0	002.0500	0111.4	023.4	136.4	006.0000	0102.1	045.0	53.7
315.0	002.0500	0111.3	023.4	135.9	006.0000	0102.1	045.0	53.7
316.0	002.0500	0111.3	023.4	135.4	006.0000	0102.0	045.0	53.7
317.0	002.0500	0111.1	023.3	134.9	006.0000	0102.0	045.0	53.7
318.0	002.0500	0110.9	023.3	134.3	006.0000	0101.9	045.0	53.6
319.0	002.0500	0110.9	023.3	133.8	006.0000	0101.9	045.1	53.6
320.0	002.0500	0111.0	023.3	133.3	006.0000	0101.9	045.1	53.6
321.0	002.0500	0111.0	023.3	132.8	006.0000	0101.9	045.2	53.6
322.0	002.0500	0111.0	023.3	132.3	006.0000	0101.9	045.2	53.6
323.0	002.0500	0111.0	023.3	131.8	006.0000	0101.9	045.3	53.5
324.0	002.0500	0110.8	023.3	131.3	006.0000	0101.8	045.4	53.5
325.0	002.0500	0110.8	023.3	130.8	006.0000	0101.8	045.5	53.4
326.0	002.0500	0110.9	023.3	130.3	006.0000	0101.7	045.6	53.4
327.0	002.0500	0111.0	023.3	129.8	006.0000	0101.7	045.7	53.4
328.0	002.0500	0111.2	023.3	129.3	006.0000	0101.6	045.8	53.3
329.0	002.0500	0111.3	023.4	128.8	006.0000	0101.6	045.9	53.3
330.0	002.0500	0111.3	023.4	128.3	006.0000	0101.4	046.1	53.2
331.0	002.0500	0111.3	023.4	127.9	006.0000	0101.4	046.2	53.1
332.0	002.0500	0111.4	023.4	127.4	006.0000	0101.3	046.4	53.1
333.0	002.0500	0111.4	023.4	126.9	006.0000	0101.3	046.6	53.0
334.0	002.0500	0111.6	023.4	126.5	006.0000	0101.1	046.7	52.9
335.0	002.0500	0111.7	023.4	126.0	006.0000	0101.1	046.9	52.8
336.0	002.0500	0111.9	023.4	125.6	006.0000	0101.1	047.1	52.8

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**June 2001**

**EXHIBIT A4**

WTDK BMLH-19891229KA  
Channel = 296A  
Max ERP = 6 kW  
RCAMSL = 114 M  
N. Lat = 38 46 02  
W. Lng = 75 44 46

WRXS - Proposed  
Channel = 295A  
Max ERP = 2.05 kW  
RCAMSL = 120.97 M  
N. Lat = 381939  
W. Lng = 751149

Protected  
60 dBu

Interfering  
54 dBu

**3 second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
116.0	006.0000	0099.9	028.3	328.5	002.0500	0111.2	042.8	50.6
117.0	006.0000	0099.9	028.3	327.9	002.0500	0111.2	042.5	50.7
118.0	006.0000	0100.1	028.3	327.4	002.0500	0111.0	042.3	50.8
119.0	006.0000	0100.1	028.3	326.8	002.0500	0111.0	042.0	50.9
120.0	006.0000	0100.3	028.3	326.2	002.0500	0110.9	041.8	51.0
121.0	006.0000	0100.4	028.3	325.6	002.0500	0110.9	041.6	51.1
122.0	006.0000	0100.5	028.4	325.0	002.0500	0110.8	041.4	51.1
123.0	006.0000	0100.7	028.4	324.3	002.0500	0110.8	041.2	51.2
124.0	006.0000	0100.8	028.4	323.7	002.0500	0110.8	041.0	51.3
125.0	006.0000	0101.0	028.4	323.0	002.0500	0111.0	040.8	51.4
126.0	006.0000	0101.1	028.4	322.4	002.0500	0111.0	040.6	51.5
127.0	006.0000	0101.3	028.5	321.7	002.0500	0111.0	040.5	51.5
128.0	006.0000	0101.4	028.5	321.0	002.0500	0111.0	040.3	51.6
129.0	006.0000	0101.6	028.5	320.3	002.0500	0111.0	040.2	51.6
130.0	006.0000	0101.7	028.5	319.7	002.0500	0111.0	040.1	51.7
131.0	006.0000	0101.8	028.5	319.0	002.0500	0110.9	040.0	51.7
132.0	006.0000	0101.9	028.5	318.2	002.0500	0110.9	040.0	51.8
133.0	006.0000	0101.9	028.5	317.5	002.0500	0110.9	039.9	51.8
134.0	006.0000	0101.9	028.5	316.8	002.0500	0111.1	039.9	51.8
135.0	006.0000	0102.0	028.6	316.1	002.0500	0111.3	039.9	51.8
136.0	006.0000	0102.1	028.6	315.4	002.0500	0111.3	039.8	51.8
137.0	006.0000	0102.1	028.6	314.7	002.0500	0111.3	039.9	51.8
138.0	006.0000	0102.1	028.6	314.0	002.0500	0111.4	039.9	51.8
139.0	006.0000	0102.1	028.6	313.2	002.0500	0111.4	039.9	51.8
140.0	006.0000	0102.0	028.6	312.5	002.0500	0111.4	040.0	51.8
141.0	006.0000	0102.0	028.6	311.8	002.0500	0111.5	040.1	51.7
142.0	006.0000	0102.0	028.6	311.1	002.0500	0111.5	040.2	51.7
143.0	006.0000	0102.1	028.6	310.4	002.0500	0111.6	040.3	51.7
144.0	006.0000	0102.3	028.6	309.7	002.0500	0111.6	040.4	51.6
145.0	006.0000	0102.5	028.6	309.0	002.0500	0111.6	040.5	51.6
146.0	006.0000	0102.7	028.6	308.4	002.0500	0111.6	040.6	51.5
147.0	006.0000	0102.7	028.6	307.7	002.0500	0111.6	040.7	51.5
148.0	006.0000	0102.6	028.6	307.0	002.0500	0111.7	040.9	51.4
149.0	006.0000	0102.4	028.6	306.4	002.0500	0111.7	041.1	51.3
150.0	006.0000	0102.2	028.6	305.8	002.0500	0111.7	041.4	51.2
151.0	006.0000	0102.0	028.6	305.2	002.0500	0111.8	041.6	51.1
152.0	006.0000	0101.8	028.5	304.6	002.0500	0111.8	041.9	51.0
153.0	006.0000	0101.7	028.5	304.0	002.0500	0111.8	042.1	50.9
154.0	006.0000	0101.8	028.5	303.4	002.0500	0111.8	042.3	50.8
155.0	006.0000	0101.8	028.5	302.8	002.0500	0111.8	042.6	50.7
156.0	006.0000	0101.9	028.5	302.3	002.0500	0111.9	042.9	50.6

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**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A5**

WRXS - Proposed  
Channel = 295A  
Max ERP = 2.05 kW  
RCAMSL = 120.97 M  
N. Lat = 381939  
W. Lng = 751149

WKDN BMLED-19980417KA  
Channel = 295B  
Max ERP = 50 kW  
RCAMSL = 167 M  
N. Lat = 39 54 33  
W. Lng = 75 06 00

Protected  
60 dBu

Interfering  
40 dBu

**3 second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
343.0	002.0500	0113.0	023.5	185.7	050.0000	0152.4	153.9	37.2
344.0	002.0500	0113.2	023.5	185.6	050.0000	0152.4	153.7	37.2
345.0	002.0500	0113.4	023.6	185.4	050.0000	0152.4	153.5	37.3
346.0	002.0500	0113.5	023.6	185.3	050.0000	0152.4	153.4	37.3
347.0	002.0500	0113.6	023.6	185.1	050.0000	0152.4	153.2	37.3
348.0	002.0500	0113.8	023.6	185.0	050.0000	0152.4	153.1	37.3
349.0	002.0500	0114.0	023.6	184.9	050.0000	0152.4	153.0	37.4
350.0	002.0500	0114.1	023.6	184.7	050.0000	0152.4	152.8	37.4
351.0	002.0500	0114.4	023.6	184.6	050.0000	0152.4	152.7	37.4
352.0	002.0500	0114.5	023.7	184.4	050.0000	0152.2	152.6	37.4
353.0	002.0500	0114.6	023.7	184.3	050.0000	0152.2	152.5	37.4
354.0	002.0500	0114.7	023.7	184.1	050.0000	0152.2	152.4	37.4
355.0	002.0500	0114.8	023.7	183.9	050.0000	0152.2	152.4	37.4
356.0	002.0500	0114.8	023.7	183.8	050.0000	0152.2	152.3	37.5
357.0	002.0500	0114.9	023.7	183.6	050.0000	0152.2	152.2	37.5
358.0	002.0500	0114.9	023.7	183.5	050.0000	0151.8	152.2	37.5
359.0	002.0500	0115.0	023.7	183.3	050.0000	0151.8	152.1	37.5
000.0	002.0500	0115.0	023.7	183.2	050.0000	0151.8	152.1	37.5
001.0	002.0500	0115.2	023.7	183.0	050.0000	0151.8	152.1	37.5
002.0	002.0500	0115.4	023.7	182.9	050.0000	0151.8	152.1	37.5
003.0	002.0500	0115.5	023.7	182.7	050.0000	0151.8	152.0	37.5
004.0	002.0500	0115.9	023.8	182.5	050.0000	0151.8	152.0	37.5
005.0	002.0500	0116.4	023.8	182.4	050.0000	0151.3	152.0	37.5
006.0	002.0500	0116.4	023.8	182.2	050.0000	0151.3	152.0	37.5
007.0	002.0500	0116.5	023.8	182.1	050.0000	0151.3	152.0	37.5
008.0	002.0500	0116.6	023.8	181.9	050.0000	0151.3	152.1	37.5
009.0	002.0500	0116.6	023.8	181.8	050.0000	0151.3	152.1	37.5
010.0	002.0500	0116.6	023.8	181.6	050.0000	0151.3	152.2	37.5
011.0	002.0500	0116.6	023.8	181.4	050.0000	0150.9	152.2	37.4
012.0	002.0500	0116.7	023.9	181.3	050.0000	0150.9	152.3	37.4
013.0	002.0500	0116.7	023.9	181.1	050.0000	0150.9	152.4	37.4
014.0	002.0500	0116.7	023.9	181.0	050.0000	0150.9	152.5	37.4
015.0	002.0500	0116.8	023.9	180.8	050.0000	0150.9	152.6	37.4
016.0	002.0500	0116.8	023.9	180.7	050.0000	0150.9	152.7	37.4
017.0	002.0500	0116.8	023.9	180.5	050.0000	0150.9	152.8	37.3
018.0	002.0500	0116.7	023.9	180.4	050.0000	0150.3	152.9	37.3
019.0	002.0500	0116.7	023.9	180.2	050.0000	0150.3	153.0	37.3
020.0	002.0500	0116.7	023.9	180.1	050.0000	0150.3	153.2	37.3
021.0	002.0500	0116.9	023.9	179.9	050.0000	0150.3	153.3	37.2
022.0	002.0500	0117.0	023.9	179.8	050.0000	0150.3	153.5	37.2
023.0	002.0500	0117.0	023.9	179.6	050.0000	0150.3	153.6	37.2

**MINOR CHANGE APPLICATION**  
**ATLANTIC RADIO BROADCASTING, LLC**  
**WRXS (FM) RADIO STATION**  
**CH 295A - 106.9 MHZ - 2.05 KW**  
**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A6**

WKDN BMLED-19980417KA  
Channel = 295B  
Max ERP = 50 kW  
RCAMSL = 167 M  
N. Lat = 39 54 33  
W. Lng = 75 06 00

WRXS - Proposed  
Channel = 295A  
Max ERP = 2.05 kW  
RCAMSL = 120.97 M  
N. Lat = 381939  
W. Lng = 751149

Protected  
54 dBu

Interfering  
34 dBu

**3 second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
163.0	050.0000	0145.0	064.4	013.3	002.0500	0116.7	117.2	29.0
164.0	050.0000	0146.0	064.5	012.8	002.0500	0116.7	116.6	29.1
165.0	050.0000	0146.8	064.6	012.4	002.0500	0116.7	115.9	29.3
166.0	050.0000	0147.3	064.7	011.9	002.0500	0116.7	115.3	29.4
167.0	050.0000	0147.7	064.8	011.4	002.0500	0116.6	114.8	29.5
168.0	050.0000	0148.0	064.8	010.9	002.0500	0116.6	114.3	29.5
169.0	050.0000	0148.3	064.8	010.4	002.0500	0116.6	113.9	29.6
170.0	050.0000	0148.7	064.9	009.9	002.0500	0116.6	113.4	29.7
171.0	050.0000	0149.1	064.9	009.4	002.0500	0116.6	113.0	29.8
172.0	050.0000	0149.4	065.0	008.8	002.0500	0116.6	112.6	29.9
173.0	050.0000	0149.7	065.0	008.3	002.0500	0116.6	112.2	29.9
174.0	050.0000	0149.6	065.0	007.7	002.0500	0116.6	112.0	30.0
175.0	050.0000	0149.6	065.0	007.2	002.0500	0116.5	111.7	30.0
176.0	050.0000	0149.8	065.0	006.6	002.0500	0116.5	111.5	30.1
177.0	050.0000	0149.9	065.1	006.0	002.0500	0116.4	111.2	30.1
178.0	050.0000	0150.0	065.1	005.5	002.0500	0116.4	111.1	30.1
179.0	050.0000	0150.0	065.1	004.9	002.0500	0116.4	110.9	30.2
180.0	050.0000	0150.3	065.1	004.3	002.0500	0115.9	110.8	30.2
181.0	050.0000	0150.9	065.2	003.7	002.0500	0115.9	110.7	30.2
182.0	050.0000	0151.3	065.2	003.1	002.0500	0115.5	110.6	30.2
183.0	050.0000	0151.8	065.3	002.6	002.0500	0115.5	110.5	30.2
184.0	050.0000	0152.2	065.4	002.0	002.0500	0115.4	110.5	30.2
185.0	050.0000	0152.4	065.4	001.4	002.0500	0115.2	110.5	30.2
186.0	050.0000	0152.4	065.4	000.8	002.0500	0115.2	110.6	30.2
187.0	050.0000	0152.1	065.3	000.2	002.0500	0115.0	110.7	30.2
188.0	050.0000	0151.8	065.3	359.7	002.0500	0115.0	110.9	30.1
189.0	050.0000	0151.5	065.3	359.1	002.0500	0115.0	111.1	30.1
190.0	050.0000	0151.3	065.2	358.5	002.0500	0115.0	111.4	30.0
191.0	050.0000	0151.1	065.2	358.0	002.0500	0114.9	111.6	30.0
192.0	050.0000	0150.9	065.2	357.4	002.0500	0114.9	111.9	29.9
193.0	050.0000	0150.8	065.2	356.8	002.0500	0114.9	112.3	29.9
194.0	050.0000	0150.7	065.2	356.3	002.0500	0114.8	112.6	29.8
195.0	050.0000	0150.8	065.2	355.8	002.0500	0114.8	112.9	29.7
196.0	050.0000	0151.0	065.2	355.2	002.0500	0114.8	113.3	29.7
197.0	050.0000	0151.1	065.2	354.7	002.0500	0114.8	113.7	29.6
198.0	050.0000	0151.2	065.2	354.2	002.0500	0114.7	114.2	29.5
199.0	050.0000	0151.3	065.2	353.6	002.0500	0114.7	114.6	29.4
200.0	050.0000	0151.5	065.3	353.1	002.0500	0114.6	115.1	29.3
201.0	050.0000	0151.8	065.3	352.6	002.0500	0114.6	115.6	29.3
202.0	050.0000	0152.1	065.3	352.1	002.0500	0114.5	116.1	29.2
203.0	050.0000	0152.3	065.4	351.7	002.0500	0114.5	116.7	29.1

**MINOR CHANGE APPLICATION**  
**ATLANTIC RADIO BROADCASTING, LLC**  
**WRXS (FM) RADIO STATION**  
**CH 295A - 106.9 MHZ - 2.05 KW**  
**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A7**

WRXS - Proposed  
Channel = 295A  
Max ERP = 2.05 kW  
RCAMSL = 120.97 M  
N. Lat = 381939  
W. Lng = 751149

Fruitland RM-9761  
Channel = 298B1  
Max ERP = 25 kW  
RCAMSL = 104.39 M  
N. Lat = 38 11 32  
W. Lng = 75 41 58

Protected  
60 dBu

Interfering  
100 dBu

**3 second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
231.0	002.0500	0111.5	023.4	089.2	025.0000	0096.9	025.9	68.7
232.0	002.0500	0111.6	023.4	088.5	025.0000	0096.9	025.6	68.9
233.0	002.0500	0111.6	023.4	087.8	025.0000	0096.7	025.4	69.0
234.0	002.0500	0111.9	023.4	087.0	025.0000	0096.6	025.1	69.2
235.0	002.0500	0112.1	023.4	086.3	025.0000	0096.5	024.9	69.3
236.0	002.0500	0112.3	023.5	085.5	025.0000	0096.4	024.6	69.5
237.0	002.0500	0112.4	023.5	084.6	025.0000	0096.4	024.4	69.6
238.0	002.0500	0112.5	023.5	083.8	025.0000	0096.3	024.2	69.8
239.0	002.0500	0112.7	023.5	082.9	025.0000	0096.1	024.1	69.9
240.0	002.0500	0112.8	023.5	082.0	025.0000	0096.0	023.9	70.0
241.0	002.0500	0112.9	023.5	081.1	025.0000	0095.9	023.7	70.1
242.0	002.0500	0113.0	023.5	080.2	025.0000	0095.9	023.6	70.2
243.0	002.0500	0113.1	023.5	079.2	025.0000	0095.8	023.4	70.3
244.0	002.0500	0113.2	023.5	078.3	025.0000	0095.7	023.3	70.4
245.0	002.0500	0113.3	023.5	077.3	025.0000	0095.6	023.2	70.4
246.0	002.0500	0113.4	023.6	076.3	025.0000	0095.5	023.1	70.5
247.0	002.0500	0113.5	023.6	075.3	025.0000	0095.4	023.1	70.5
248.0	002.0500	0113.5	023.6	074.3	025.0000	0095.3	023.0	70.6
249.0	002.0500	0113.5	023.6	073.2	025.0000	0095.2	023.0	70.6
250.0	002.0500	0113.6	023.6	072.2	025.0000	0095.1	022.9	70.6
251.0	002.0500	0113.7	023.6	071.2	025.0000	0095.0	022.9	70.6
252.0	002.0500	0113.7	023.6	070.1	025.0000	0095.0	022.9	70.6
253.0	002.0500	0113.8	023.6	069.1	025.0000	0094.7	022.9	70.6
254.0	002.0500	0113.8	023.6	068.1	025.0000	0094.6	023.0	70.5
255.0	002.0500	0113.8	023.6	067.1	025.0000	0094.5	023.0	70.5
256.0	002.0500	0113.8	023.6	066.0	025.0000	0094.3	023.1	70.4
257.0	002.0500	0113.8	023.6	065.0	025.0000	0094.3	023.1	70.4
258.0	002.0500	0113.8	023.6	064.0	025.0000	0094.1	023.2	70.3
259.0	002.0500	0113.8	023.6	063.1	025.0000	0094.1	023.3	70.2
260.0	002.0500	0113.9	023.6	062.1	025.0000	0094.0	023.5	70.1
261.0	002.0500	0113.9	023.6	061.1	025.0000	0094.0	023.6	70.0
262.0	002.0500	0113.9	023.6	060.2	025.0000	0094.1	023.7	69.9
263.0	002.0500	0113.9	023.6	059.3	025.0000	0094.2	023.9	69.8
264.0	002.0500	0113.9	023.6	058.4	025.0000	0094.2	024.1	69.7
265.0	002.0500	0113.9	023.6	057.5	025.0000	0094.2	024.2	69.6
266.0	002.0500	0113.9	023.6	056.6	025.0000	0094.2	024.4	69.4
267.0	002.0500	0113.9	023.6	055.8	025.0000	0094.2	024.6	69.3
268.0	002.0500	0113.9	023.6	055.0	025.0000	0094.1	024.8	69.1
269.0	002.0500	0113.9	023.6	054.2	025.0000	0094.0	025.1	68.9
270.0	002.0500	0113.8	023.6	053.4	025.0000	0094.0	025.3	68.8
271.0	002.0500	0113.9	023.6	052.7	025.0000	0094.0	025.6	68.6

**MINOR CHANGE APPLICATION**  
**ATLANTIC RADIO BROADCASTING, LLC**  
**WRXS (FM) RADIO STATION**  
**CH 295A - 106.9 MHZ - 2.05 KW**  
**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A8**

Fruitland RM-9761  
Channel = 298B1  
Max ERP = 25 kW  
RCAMSL = 104.39 M  
N. Lat = 38 11 32  
W. Lng = 75 41 58

WRXS - Proposed  
Channel = 295A  
Max ERP = 2.05 kW  
RCAMSL = 120.97 M  
N. Lat = 381939  
W. Lng = 751149

Protected  
57 dBu

Interfering  
97 dBu

**3 second terrain database**

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
051.0	025.0000	0093.8	043.6	321.3	002.0500	0111.0	016.0	66.7
052.0	025.0000	0093.9	043.6	321.4	002.0500	0111.0	015.2	67.4
053.0	025.0000	0094.0	043.6	321.3	002.0500	0111.0	014.4	68.0
054.0	025.0000	0094.0	043.7	321.2	002.0500	0111.0	013.7	69.0
055.0	025.0000	0094.1	043.7	321.1	002.0500	0111.0	012.9	70.0
056.0	025.0000	0094.2	043.7	320.9	002.0500	0111.0	012.2	71.0
057.0	025.0000	0094.2	043.7	320.5	002.0500	0111.0	011.4	72.2
058.0	025.0000	0094.2	043.7	320.0	002.0500	0111.0	010.6	73.4
059.0	025.0000	0094.2	043.7	319.3	002.0500	0110.9	009.9	74.7
060.0	025.0000	0094.1	043.7	318.4	002.0500	0110.9	009.1	76.1
061.0	025.0000	0094.0	043.7	317.1	002.0500	0111.1	008.4	77.6
062.0	025.0000	0094.0	043.7	315.7	002.0500	0111.3	007.7	79.2
063.0	025.0000	0094.1	043.7	313.9	002.0500	0111.4	006.9	81.0
064.0	025.0000	0094.1	043.7	311.7	002.0500	0111.5	006.2	83.0
065.0	025.0000	0094.3	043.7	308.9	002.0500	0111.6	005.5	85.1
066.0	025.0000	0094.3	043.7	304.9	002.0500	0111.8	004.9	87.2
067.0	025.0000	0094.5	043.8	299.7	002.0500	0112.0	004.2	89.5
068.0	025.0000	0094.6	043.8	292.5	002.0500	0112.2	003.6	91.8
069.0	025.0000	0094.7	043.8	282.6	002.0500	0112.8	003.1	94.1
070.0	025.0000	0095.0	043.8	269.5	002.0500	0113.8	002.7	96.1
071.0	025.0000	0095.0	043.8	253.3	002.0500	0113.8	002.6	97.0
072.0	025.0000	0095.1	043.9	236.6	002.0500	0112.4	002.7	96.5
073.0	025.0000	0095.2	043.9	222.1	002.0500	0112.0	003.0	94.9
074.0	025.0000	0095.3	043.9	210.8	002.0500	0115.7	003.4	93.0
075.0	025.0000	0095.4	043.9	202.7	002.0500	0117.5	004.0	90.8
076.0	025.0000	0095.5	043.9	196.7	002.0500	0119.3	004.6	88.6
077.0	025.0000	0095.6	044.0	192.4	002.0500	0119.7	005.3	86.5
078.0	025.0000	0095.7	044.0	189.1	002.0500	0120.1	006.0	84.4
079.0	025.0000	0095.8	044.0	186.7	002.0500	0120.1	006.7	82.4
080.0	025.0000	0095.9	044.0	184.9	002.0500	0120.3	007.4	80.5
081.0	025.0000	0095.9	044.0	183.4	002.0500	0120.2	008.1	78.8
082.0	025.0000	0096.0	044.0	182.3	002.0500	0120.2	008.9	77.3
083.0	025.0000	0096.1	044.0	181.4	002.0500	0120.2	009.7	75.9
084.0	025.0000	0096.3	044.1	180.8	002.0500	0120.2	010.4	74.5
085.0	025.0000	0096.4	044.1	180.2	002.0500	0120.2	011.2	73.2
086.0	025.0000	0096.5	044.1	179.8	002.0500	0120.2	011.9	72.0
087.0	025.0000	0096.6	044.1	179.6	002.0500	0120.2	012.7	70.9
088.0	025.0000	0096.7	044.2	179.4	002.0500	0120.2	013.5	69.9
089.0	025.0000	0096.9	044.2	179.2	002.0500	0120.2	014.2	68.9
090.0	025.0000	0097.1	044.2	179.1	002.0500	0120.2	015.0	68.2
091.0	025.0000	0097.2	044.2	179.1	002.0500	0120.2	015.8	67.6

**MINOR CHANGE APPLICATION**  
**ATLANTIC RADIO BROADCASTING, LLC**  
**WRXS (FM) RADIO STATION**  
**CH 295A - 106.9 MHZ - 2.05 KW**  
**OCEAN CITY, MARYLAND**  
**June 2001**

**EXHIBIT A9**

Predicted Signal Contours:

38 19 39 - TABULATED PROTECTED AND INTERFERING CONTOURS  
75 11 49 - WRXS RADIO STATION - OCEAN CITY, MARYLAND

ERP = 2.05 kW, 3.118 dBk FM - 2-6 Tables 03 Sec

Radial	HAAT	kW	dBk	Field	60 dBu.5	34 dBu.5	54 dBu.5	97 dBu.5
0 Degr.	115.0M	2.050	3.118	1.000	23.7	74.3	32.5	2.6
10 Degr.	116.6M	2.050	3.118	1.000	23.8	74.5	32.7	2.6
20 Degr.	116.7M	2.050	3.118	1.000	23.9	74.6	32.7	2.6
30 Degr.	118.5M	2.050	3.118	1.000	24.0	74.9	32.9	2.6
40 Degr.	119.7M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
50 Degr.	120.3M	2.050	3.118	1.000	24.2	75.2	33.1	2.7
60 Degr.	120.3M	2.050	3.118	1.000	24.2	75.2	33.1	2.7
70 Degr.	120.1M	2.050	3.118	1.000	24.1	75.2	33.1	2.6
80 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
90 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
100 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
110 Degr.	120.1M	2.050	3.118	1.000	24.1	75.2	33.1	2.6
120 Degr.	120.2M	2.050	3.118	1.000	24.2	75.2	33.1	2.7
130 Degr.	120.1M	2.050	3.118	1.000	24.1	75.2	33.1	2.6
140 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
150 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
160 Degr.	119.8M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
170 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
180 Degr.	120.2M	2.050	3.118	1.000	24.2	75.2	33.1	2.7
190 Degr.	120.0M	2.050	3.118	1.000	24.1	75.1	33.1	2.6
200 Degr.	118.5M	2.050	3.118	1.000	24.0	74.9	32.9	2.6
210 Degr.	115.9M	2.050	3.118	1.000	23.8	74.4	32.6	2.6
220 Degr.	112.5M	2.050	3.118	1.000	23.5	73.8	32.1	2.6
230 Degr.	111.6M	2.050	3.118	1.000	23.4	73.6	32.0	2.6
240 Degr.	112.8M	2.050	3.118	1.000	23.5	73.9	32.2	2.6
250 Degr.	113.7M	2.050	3.118	1.000	23.6	74.0	32.3	2.6
260 Degr.	113.9M	2.050	3.118	1.000	23.6	74.1	32.3	2.6
270 Degr.	113.8M	2.050	3.118	1.000	23.6	74.0	32.3	2.6
280 Degr.	113.1M	2.050	3.118	1.000	23.5	73.9	32.2	2.6
290 Degr.	112.2M	2.050	3.118	1.000	23.4	73.7	32.1	2.6
300 Degr.	112.0M	2.050	3.118	1.000	23.4	73.7	32.1	2.6
310 Degr.	111.6M	2.050	3.118	1.000	23.4	73.6	32.0	2.6
320 Degr.	110.9M	2.050	3.118	1.000	23.3	73.5	31.9	2.6
330 Degr.	111.3M	2.050	3.118	1.000	23.4	73.6	32.0	2.6
340 Degr.	112.5M	2.050	3.118	1.000	23.5	73.8	32.1	2.6
350 Degr.	114.1M	2.050	3.118	1.000	23.6	74.1	32.3	2.6