

**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A**

**Non-Commercial Allocation Analysis & §73.509 Study,**  
**§73.207 Spacing Analysis and §73.215 Study**

**§73.509 Analysis**

Due to its operating channel, WLFS could potentially impact other authorized or proposed non-commercial stations operating on co- or adjacent FM channels. The detailed list of stations reviewed as potentially impacted by Channel 220C3 at Port Wentworth, Georgia, is shown on Exhibit A1.<sup>1</sup> The two stations that were reviewed are WVGS and WASW.<sup>2</sup> The provisions of §73.509 of the rules will be met by utilizing a directional FM antenna system for WLFS.

Exhibit A2 specifically demonstrates that there will be no prohibited overlap between the proposed WLFS and either WVGS or WASW. Attached as Exhibits A3 through A6 are the tabulated distances to the protected and interfering contours, along pertinent arcs, of the proposed WLFS, and both WVGS and WASW. Further, attached as Exhibit A7 are the tabulated and protected contours of the proposed WLFS, in ten degree increments. Again, there is no prohibited overlap between the facilities.

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- 1) The remaining non-commercial stations listed on Exhibit A1 were reviewed for compliance with §73.509 of the rules. Their respective contours are well removed from the proposed WLFS contour. Since they are in compliance with §73.509, they not shown on Exhibit A2.
  - 2) There is an outstanding permit for WASW to upgrade to Channel 220C2. Since the contours from this permitted facility are superior to those of the license, the WASW permit was used for the §73.509 study and are considered worst case.

### **§73.207 spacing matters (including I.F. Relationship)**

Since WLFS operates immediately below the commercial non-reserved band, a §73.207 spacing study was conducted from the proposed WLFS site. Attached as Exhibit A8 is a study showing the proposed WLFS meets the Commission's minimum distance separation requirements to all commercial FM stations, with the exception of WBHC-FM, which will be addressed under §73.215 (see below). The nearest station operating on a frequency either 53 or 54 channels removed from this instant proposal is the transmitter site for WXLV, Channel 273C, North Charleston, South Carolina. The WXLV site is located on a bearing of 56.4° at a distance of 129.3 kilometers from the proposed WLFS site. Pursuant to §73.207 of the rules, WLFS must be a minimum of 31.0 kilometers from the WXLV site. WLFS is located more than 95.0 kilometers farther than the required distance. Therefore, this proposal does not impact any intermediate frequency stations.

### **Shortspaced Facilities Utilizing §73.215**

As denoted above, the WLFS proposed antenna location will be shortspaced to one other commercial FM broadcast facility, WBHC-FM. The detailed spacing information with regard to this station is shown on Exhibit A8. Radio Training Network, 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 utilizing a directional FM antenna system.

Exhibit A9 specifically demonstrates that there will be no prohibited overlap between the proposed WLFS and the authorized WBHC-FM. The contours of WBHC-FM are based on 6.0

kilowatts at 100 meters height above average terrain. Attached as Exhibits A10 and A11 are the tabulated distances to the protected and interfering contours, along pertinent arcs, of the proposed WLFS and authorized WBHC-FM. There is no prohibited overlap between the facilities.

#### **Channel 6 Television Protection**

\_\_\_\_\_The proposed WLFS site is located 150.5 kilometers from VHF television station WJBF, Channel 6, Augusta, Georgia. Pursuant to §73.525 of the rules, a radio station operating on Channel 220 must be further than 154 kilometers from any TV Channel 6 facility. While the proposed WLFS site is located close to the required clearance distance from WJBF, the proposed WLFS interfering contour (86.0 dBu (50/10), as defined by §73.599 (figure 2) of the rules, will not overlap with the Grade B contour of WJBF (as shown on Exhibit A12). As such, WLFS is in compliance with §73.525 of the rules.

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**PORT WENTWORTH, GEORGIA**  
**Au 2002**

**EXHIBIT A1**

Non-commercial interference analysis for WLFS Port Wentworth Georgia  
Using proposed site as reference

REFERENCE	CH# 220C3 - 91.9 MHz, Pwr= 23.5 kW, HAAT=103.0M, COR= 105 M							DISPLAY DATES		
32 09 28 N	Average Protected F(50-50)= 39.1 km							DATA		
08-10-02										
80 59 31 W	Ave. F(50-10) 40 dBu= 112.7 54 dBu= 60.0 100 dBu= 4.1							DATE	08-15-	
02										
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr (kW)	COR (M)	PRO (km)	*IN*	*OUT*
CITY		STATE	<--	FILE #	LNG.	HAAT (M)	INT (km)	LICENSEE	(Overlap in km)	
220A	WLFS	LIC DC	268.9	16.35	32 09 17	6.000	58	21.6	-100.48	-117.92
Port Wentworth		GA	88.9	BLED-20010122AIX	81 09 55	55	77.8	Radio Training Network, Inc.		
220A	*WVGS	LIC CN	292.0	80.19	32 25 32	1.000	105	13.3	11.44	0.95
Statesboro		GA	112.0	BLED-19851024KD	81 46 58	52	48.0	Georgia Southern University		
> Reference HAAT at 292.0' = 103.0 M, Pwr= 001.46875 kW, Pro. Dist. = 20.8 km, Int Dist. = 65.95 km										
221A	*WBHCFM	LIC CN	350.7	77.11	32 50 38	6.000	127			
Hampton		SC	170.7	BLH-19980814KE	81 07 32	100	43.8	Hampton County Broadcasters		
220C2	WASW.C	CP NCX	231.5	166.30	31 13 07	45.000	84	31.0	10.44	22.62
Waycross		GA	51.5	BPED-20010820ABB	82 21 34	45	116.8	American Family Association		
222C2	WSKX.A	APP	223.0	55.65	31 47 28	50.000	135.6	50.4		
Hinesville		GA	43.0	(not available)	81 23 38	136.3	5.6	Communications Capital Com.		
222C2	WSKX	LIC CN	216.2	63.81	31 41 37	50.000	149	51.8		
Hinesville		GA	36.2	BLH-19911029KB	81 23 27	147	5.9	Communications Capital Com.		
220A	WASW	LIC C	231.5	166.30	31 13 07	1.200	84	12.8	80.28	40.77
Waycross		GA	51.5	BLED-20010621AAC	82 21 34	45	46.9	American Family Association		
218C1	WKCL	LIC CN	41.7	126.75	33 00 24	100.000	104	49.5	82.04	73.19
Ladson		SC	221.7	BLED-19900227KA	80 05 17	93	5.6	Chapel Holy Spirit Church		
223C	WHLZ.C	CP DC	54.5	148.22	32 55 28	100.000	543			
Moncks Corner		SC	234.5	BPH-20020318AAT	79 41 58	540	13.0	Apex Broadcasting, Inc.		
223C1	WHLZ.A	APP CX	55.6	131.04	32 49 04	100.000	239			
Moncks Corner		SC	235.6	BMPH-20020717AAC	79 50 08	237	9.0	Apex Broadcasting, Inc.		
223C1	ALLO	VAC	55.6	131.04	32 49 04	100.000	0			
Manning		SC	235.6		79 50 08	299	10.1			
219C2	WNLE	LIC CN	196.8	177.70	30 37 23	32.000	75	34.8	82.29	82.94
Fernandina Beach		FL	16.8	BLED-19980626KD	81 31 49	68	56.3	Nassau Baptist Ministries		
218A	AP218	APP CX	205.6	114.68	31 13 30	0.440	39	9.1	74.13	101.52
Brunswick		GA	25.6	BNPED-20000222ACH	81 30 52	37	1.5	Gospel Radio Ministries,		
Inc.										
221A	WPEHFM	LIC CN	306.3	162.15	33 00 48	3.000	183			
Louisville		GA	126.3	BLH-7862	82 23 33	91	34.8	Peach Broadcasting Co.,		
Inc.										
06+2C	WJBF	CP HN	330.5	159.39	33 24 18	100.000	563	119.4	40.0R	119.4M
Augusta		GA	150.5	BPCT-19980909KE	81 50 15	489	0.0	Media General Broadcasting		

\* = ERP and HAAT on direct line to and from reference station.

Note : See Exhibit #A8 for commercial spacing issues (pursuant to §73.207)

Graham Brock, Inc. - Broadcast Technical Consultants

**WLFS Proposed**

Latitude: 32-09-28 N  
Longitude: 080-59-31 W  
ERP: 23.50 kW  
Channel: 220C3  
AMSL Height: 105.2 m

**WVGS**

BLER-19851024KD  
Latitude: 32-25-32 N  
Longitude: 081-46-58 W  
ERP: 1.00 kW  
Channel: 220A  
AMSL Height: 105.0 m

**WASW CP**

BPED-20010820ABB  
Latitude: 31-13-07 N  
Longitude: 082-21-34 W  
ERP: 45.00 kW  
Channel: 220C2  
AMSL Height: 84.0 m

WVGS 40 dBu (50/10)

WASW 40 dBu (50/10)

WASW 60 dBu (50/50)

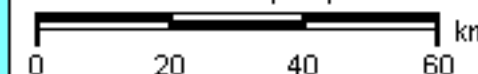
Proposed WLFS 60 dBu (50/50)

Proposed WLFS 40 dBu (50/10)

§73.509 ANALYSIS

EXHIBIT A2  
MINOR CHANGE APPLICATION  
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Scale 1:1,500,000



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**EXHIBIT A3**

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

WVGS - BLED-19851024KD  
Channel = 220A  
Max ERP = 1 kW  
RCAMSL = 105 M  
N. Lat = 32 25 32  
W. Lng = 81 46 58

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)
262.0	004.6745	0104.1	027.3	125.2	001.0000	0053.4	058.1	37.1
263.0	004.4775	0104.1	027.0	124.7	001.0000	0053.4	058.0	37.1
264.0	004.2847	0104.2	026.7	124.1	001.0000	0053.4	057.9	37.1
265.0	004.0962	0104.2	026.5	123.6	001.0000	0053.4	057.8	37.2
266.0	003.9119	0104.3	026.2	123.1	001.0000	0053.4	057.7	37.2
267.0	003.7319	0104.3	025.9	122.6	001.0000	0053.4	057.7	37.2
268.0	003.5560	0104.3	025.7	122.0	001.0000	0053.4	057.6	37.2
269.0	003.3845	0104.2	025.4	121.5	001.0000	0053.4	057.6	37.2
270.0	003.2172	0104.2	025.1	121.0	001.0000	0053.4	057.6	37.2
271.0	003.0966	0104.2	024.9	120.5	001.0000	0053.4	057.6	37.2
272.0	002.9783	0104.1	024.6	120.0	001.0000	0053.6	057.6	37.3
273.0	002.8623	0104.1	024.4	119.5	001.0000	0053.6	057.6	37.3
274.0	002.7487	0104.1	024.2	119.1	001.0000	0054.3	057.6	37.3
275.0	002.6373	0104.0	024.0	118.6	001.0000	0054.3	057.6	37.3
276.0	002.5282	0104.0	023.7	118.1	001.0000	0054.8	057.7	37.3
277.0	002.4215	0104.0	023.5	117.6	001.0000	0054.8	057.8	37.3
278.0	002.3170	0104.0	023.3	117.2	001.0000	0054.9	057.8	37.3
279.0	002.2149	0104.0	023.0	116.7	001.0000	0054.9	057.9	37.3
280.0	002.1150	0104.0	022.8	116.3	001.0000	0054.7	058.1	37.2
281.0	002.0451	0103.9	022.6	115.9	001.0000	0054.7	058.1	37.2
282.0	001.9763	0103.9	022.4	115.4	001.0000	0054.1	058.2	37.1
283.0	001.9088	0103.8	022.2	115.0	001.0000	0054.1	058.3	37.1
284.0	001.8424	0103.8	022.0	114.6	001.0000	0054.1	058.4	37.1
285.0	001.7772	0103.7	021.8	114.2	001.0000	0053.2	058.5	36.9
286.0	001.7132	0103.7	021.7	113.8	001.0000	0053.2	058.7	36.9
287.0	001.6503	0103.6	021.5	113.4	001.0000	0052.7	058.8	36.8
288.0	001.5886	0103.5	021.3	113.0	001.0000	0052.7	059.0	36.8
289.0	001.5281	0103.5	021.1	112.7	001.0000	0052.7	059.2	36.7
290.0	001.4688	0103.4	020.8	112.3	001.0000	0052.5	059.3	36.6
291.0	001.4688	0103.3	020.8	111.9	001.0000	0052.5	059.3	36.6
292.0	001.4688	0103.2	020.8	111.6	001.0000	0052.5	059.3	36.6
293.0	001.4688	0103.2	020.8	111.2	001.0000	0052.3	059.4	36.6
294.0	001.4688	0103.1	020.8	110.9	001.0000	0052.3	059.4	36.6
295.0	001.4688	0103.1	020.8	110.5	001.0000	0052.3	059.4	36.6
296.0	001.4688	0103.0	020.8	110.2	001.0000	0052.1	059.4	36.6
297.0	001.4688	0103.0	020.8	109.8	001.0000	0052.1	059.5	36.6
298.0	001.4688	0103.0	020.8	109.5	001.0000	0051.8	059.5	36.5
299.0	001.4688	0102.9	020.8	109.1	001.0000	0051.8	059.6	36.5
300.0	001.4688	0102.8	020.8	108.8	001.0000	0051.8	059.7	36.5
301.0	001.4688	0102.8	020.8	108.5	001.0000	0051.6	059.7	36.4
302.0	001.4688	0102.8	020.8	108.1	001.0000	0051.6	059.8	36.4

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**August 2002**

**EXHIBIT A4**

WVGS - BLED-19851024KD  
Channel = 220A  
Max ERP = 1 kW  
RCAMSL = 105 M  
N. Lat = 32 25 32  
W. Lng = 81 46 58

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

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)
082.0	001.0000	0055.5	013.7	297.7	001.4688	0103.0	068.7	39.2
083.0	001.0000	0055.5	013.7	297.5	001.4688	0103.0	068.5	39.2
084.0	001.0000	0055.5	013.7	297.4	001.4688	0103.0	068.4	39.3
085.0	001.0000	0055.6	013.7	297.2	001.4688	0103.0	068.3	39.3
086.0	001.0000	0056.1	013.7	297.0	001.4688	0103.0	068.1	39.4
087.0	001.0000	0056.7	013.8	296.9	001.4688	0103.0	067.9	39.4
088.0	001.0000	0057.3	013.9	296.7	001.4688	0103.0	067.7	39.5
089.0	001.0000	0057.8	013.9	296.6	001.4688	0103.0	067.6	39.5
090.0	001.0000	0058.1	014.0	296.4	001.4688	0103.0	067.4	39.6
091.0	001.0000	0058.7	014.0	296.2	001.4688	0103.0	067.3	39.6
092.0	001.0000	0058.7	014.0	296.1	001.4688	0103.0	067.2	39.6
093.0	001.0000	0058.3	014.0	295.8	001.4688	0103.0	067.1	39.7
094.0	001.0000	0057.2	013.9	295.6	001.4688	0103.0	067.1	39.6
095.0	001.0000	0055.7	013.7	295.4	001.4688	0103.1	067.2	39.6
096.0	001.0000	0054.6	013.6	295.1	001.4688	0103.1	067.3	39.6
097.0	001.0000	0053.7	013.4	294.9	001.4688	0103.1	067.3	39.6
098.0	001.0000	0053.2	013.4	294.7	001.4688	0103.1	067.3	39.6
099.0	001.0000	0052.5	013.3	294.5	001.4688	0103.1	067.3	39.6
100.0	001.0000	0052.0	013.2	294.3	001.4688	0103.1	067.3	39.6
101.0	001.0000	0051.4	013.2	294.1	001.4688	0103.1	067.3	39.6
102.0	001.0000	0051.1	013.1	293.9	001.4688	0103.1	067.3	39.6
103.0	001.0000	0050.9	013.1	293.7	001.4688	0103.1	067.3	39.6
104.0	001.0000	0051.0	013.1	293.5	001.4688	0103.1	067.3	39.6
105.0	001.0000	0051.0	013.1	293.3	001.4688	0103.2	067.2	39.6
106.0	001.0000	0051.0	013.1	293.1	001.4688	0103.2	067.2	39.6
107.0	001.0000	0051.3	013.1	292.9	001.4688	0103.2	067.1	39.7
108.0	001.0000	0051.6	013.2	292.7	001.4688	0103.2	067.1	39.7
109.0	001.0000	0051.8	013.2	292.5	001.4688	0103.2	067.0	39.7
110.0	001.0000	0052.1	013.2	292.3	001.4688	0103.2	067.0	39.7
111.0	001.0000	0052.3	013.3	292.1	001.4688	0103.2	066.9	39.7
112.0	001.0000	0052.5	013.3	291.9	001.4688	0103.2	066.9	39.7
113.0	001.0000	0052.7	013.3	291.7	001.4688	0103.2	066.9	39.7
114.0	001.0000	0053.2	013.4	291.5	001.4688	0103.2	066.8	39.7
115.0	001.0000	0054.1	013.5	291.3	001.4688	0103.3	066.8	39.8
116.0	001.0000	0054.7	013.6	291.1	001.4688	0103.3	066.7	39.8
117.0	001.0000	0054.9	013.6	290.9	001.4688	0103.3	066.7	39.8
118.0	001.0000	0054.8	013.6	290.7	001.4688	0103.3	066.7	39.8
119.0	001.0000	0054.3	013.5	290.5	001.4688	0103.3	066.8	39.7
120.0	001.0000	0053.6	013.4	290.3	001.4688	0103.4	067.0	39.7

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**EXHIBIT A4 (continued)**

WVGS - BLED-19851024KD  
Channel = 220A  
Max ERP = 1 kW  
RCAMSL = 105 M  
N. Lat = 32 25 32  
W. Lng = 81 46 58

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

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)
121.0	001.0000	0053.4	013.4	290.1	001.4688	0103.4	067.0	39.7
122.0	001.0000	0053.4	013.4	290.0	001.4717	0103.4	067.1	39.7
123.0	001.0000	0053.4	013.4	289.8	001.4832	0103.4	067.1	39.7
124.0	001.0000	0053.4	013.4	289.6	001.4946	0103.4	067.2	39.7
125.0	001.0000	0053.4	013.4	289.4	001.5060	0103.5	067.2	39.7
126.0	001.0000	0053.5	013.4	289.2	001.5176	0103.5	067.3	39.8
127.0	001.0000	0053.5	013.4	289.0	001.5292	0103.5	067.4	39.8
128.0	001.0000	0053.6	013.4	288.8	001.5406	0103.5	067.4	39.8
129.0	001.0000	0053.9	013.5	288.6	001.5525	0103.5	067.5	39.8
130.0	001.0000	0054.1	013.5	288.4	001.5644	0103.5	067.5	39.8
131.0	001.0000	0054.4	013.5	288.2	001.5762	0103.5	067.6	39.8
132.0	001.0000	0054.5	013.5	288.0	001.5877	0103.5	067.7	39.8
133.0	001.0000	0054.4	013.5	287.8	001.5985	0103.5	067.8	39.8
134.0	001.0000	0054.5	013.5	287.7	001.6100	0103.5	067.9	39.8
135.0	001.0000	0054.9	013.6	287.5	001.6221	0103.6	068.0	39.9
136.0	001.0000	0055.3	013.6	287.3	001.6341	0103.6	068.0	39.9
137.0	001.0000	0055.5	013.7	287.1	001.6457	0103.6	068.1	39.9
138.0	001.0000	0055.7	013.7	286.9	001.6570	0103.6	068.2	39.9
139.0	001.0000	0055.7	013.7	286.7	001.6677	0103.6	068.4	39.9
140.0	001.0000	0055.7	013.7	286.6	001.6783	0103.6	068.5	39.8
141.0	001.0000	0055.7	013.7	286.4	001.6885	0103.7	068.6	39.8
142.0	001.0000	0055.6	013.7	286.2	001.6986	0103.7	068.8	39.8
143.0	001.0000	0055.5	013.7	286.1	001.7080	0103.7	068.9	39.8
144.0	001.0000	0055.3	013.6	285.9	001.7175	0103.7	069.1	39.8
145.0	001.0000	0054.9	013.6	285.8	001.7255	0103.7	069.3	39.7
146.0	001.0000	0054.6	013.5	285.7	001.7337	0103.7	069.5	39.7
147.0	001.0000	0054.4	013.5	285.5	001.7425	0103.7	069.6	39.7
148.0	001.0000	0054.7	013.6	285.4	001.7528	0103.7	069.8	39.7
149.0	001.0000	0054.7	013.6	285.2	001.7621	0103.7	069.9	39.6
150.0	001.0000	0054.9	013.6	285.1	001.7719	0103.7	070.1	39.6
151.0	001.0000	0055.2	013.6	284.9	001.7818	0103.7	070.2	39.6
152.0	001.0000	0055.3	013.6	284.8	001.7908	0103.7	070.4	39.6
153.0	001.0000	0055.2	013.6	284.7	001.7987	0103.7	070.6	39.5
154.0	001.0000	0055.0	013.6	284.6	001.8060	0103.7	070.8	39.5
155.0	001.0000	0054.4	013.5	284.5	001.8113	0103.8	071.0	39.4
156.0	001.0000	0053.8	013.5	284.4	001.8160	0103.8	071.2	39.4
157.0	001.0000	0053.5	013.4	284.3	001.8218	0103.8	071.4	39.3
158.0	001.0000	0053.3	013.4	284.2	001.8282	0103.8	071.6	39.3
159.0	001.0000	0053.1	013.4	284.1	001.8339	0103.8	071.8	39.2
160.0	001.0000	0052.8	013.3	284.1	001.8391	0103.8	072.1	39.2



**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A5**

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

WASW.CP - BPED-20010820ABB  
Channel = 220C2  
Max ERP = 45 kW  
RCAMSL = 84 M  
N. Lat = 31 13 07  
W. Lng = 82 21 34

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)
201.0	023.5000	0104.9	039.4	059.4	045.0000	0051.7	133.9	37.2
202.0	023.5000	0104.1	039.2	059.1	045.0000	0051.7	133.6	37.2
203.0	023.5000	0103.3	039.1	058.8	045.0000	0051.7	133.3	37.3
204.0	023.5000	0103.2	039.1	058.6	045.0000	0051.7	132.9	37.4
205.0	023.5000	0102.9	039.1	058.3	045.0000	0052.0	132.6	37.4
206.0	023.5000	0102.5	039.0	058.1	045.0000	0052.0	132.3	37.5
207.0	023.5000	0102.0	038.9	057.8	045.0000	0052.0	132.0	37.5
208.0	023.5000	0101.6	038.8	057.5	045.0000	0052.0	131.7	37.6
209.0	023.5000	0101.6	038.8	057.3	045.0000	0050.9	131.3	37.6
210.0	023.5000	0101.7	038.9	057.0	045.0000	0050.9	131.0	37.7
211.0	023.0324	0101.9	038.7	056.7	045.0000	0050.9	130.8	37.7
212.0	022.5694	0102.0	038.6	056.4	045.0000	0049.8	130.6	37.7
213.0	022.1112	0102.1	038.4	056.1	045.0000	0049.8	130.5	37.7
214.0	021.6576	0102.3	038.3	055.9	045.0000	0049.8	130.4	37.7
215.0	021.2087	0102.7	038.2	055.6	045.0000	0049.8	130.2	37.8
216.0	020.7646	0102.8	038.1	055.3	045.0000	0049.0	130.1	37.7
217.0	020.3252	0102.9	037.9	055.0	045.0000	0049.0	130.0	37.8
218.0	019.8904	0103.0	037.8	054.7	045.0000	0049.0	130.0	37.8
219.0	019.4604	0103.1	037.6	054.4	045.0000	0048.3	129.9	37.7
220.0	019.0350	0103.1	037.4	054.1	045.0000	0048.3	129.9	37.7
221.0	018.6143	0102.9	037.2	053.8	045.0000	0048.3	130.0	37.7
222.0	018.1984	0102.5	037.0	053.5	045.0000	0047.6	130.1	37.7
223.0	017.7872	0102.2	036.7	053.2	045.0000	0047.6	130.2	37.7
224.0	017.3806	0101.8	036.5	052.9	045.0000	0047.6	130.3	37.6
225.0	016.9788	0101.7	036.3	052.6	045.0000	0047.6	130.4	37.6
226.0	016.5816	0101.9	036.1	052.3	045.0000	0046.9	130.5	37.6
227.0	016.1891	0102.2	036.0	052.0	045.0000	0046.9	130.5	37.6
228.0	015.8014	0102.7	035.9	051.7	045.0000	0046.9	130.6	37.5
229.0	015.4184	0103.2	035.8	051.5	045.0000	0046.4	130.7	37.5
230.0	015.0400	0103.8	035.7	051.2	045.0000	0046.4	130.8	37.5
231.0	014.6664	0104.1	035.5	050.9	045.0000	0046.4	130.9	37.5
232.0	014.2974	0104.1	035.3	050.6	045.0000	0046.4	131.1	37.4
233.0	013.9331	0104.1	035.1	050.4	045.0000	0046.1	131.3	37.4
234.0	013.5736	0104.2	034.9	050.1	045.0000	0046.1	131.5	37.3
235.0	013.2188	0104.2	034.7	049.9	045.0000	0046.1	131.8	37.3
236.0	012.8686	0104.2	034.5	049.6	045.0000	0046.1	132.0	37.2
237.0	012.5232	0104.2	034.3	049.4	045.0000	0046.0	132.3	37.2
238.0	012.1824	0104.2	034.1	049.1	045.0000	0046.0	132.6	37.1
239.0	011.8463	0104.2	033.9	048.9	045.0000	0046.0	132.9	37.1
240.0	011.5150	0104.2	033.6	048.6	045.0000	0046.0	133.2	37.0
241.0	011.1236	0104.2	033.4	048.4	045.0000	0046.0	133.6	36.9

**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A6**

WASW.CP - BPED-20010820ABB  
Channel = 220C2  
Max ERP = 45 kW  
RCAMSL = 84 M  
N. Lat = 31 13 07  
W. Lng = 82 21 34

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

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)
040.0	045.0000	0046.0	031.3	233.9	013.5950	0104.2	135.6	33.5
041.0	045.0000	0046.0	031.3	233.7	013.6755	0104.2	135.5	33.6
042.0	045.0000	0046.0	031.3	233.5	013.7568	0104.1	135.3	33.6
043.0	045.0000	0046.0	031.3	233.3	013.8393	0104.1	135.2	33.6
044.0	045.0000	0046.0	031.3	233.0	013.9224	0104.1	135.2	33.7
045.0	045.0000	0046.0	031.3	232.8	014.0059	0104.1	135.1	33.7
046.0	045.0000	0046.0	031.3	232.6	014.0899	0104.1	135.0	33.8
047.0	045.0000	0045.9	031.3	232.3	014.1745	0104.1	135.0	33.8
048.0	045.0000	0046.0	031.3	232.1	014.2591	0104.1	134.9	33.8
049.0	045.0000	0046.0	031.3	231.9	014.3442	0104.1	134.9	33.9
050.0	045.0000	0046.1	031.4	231.6	014.4298	0104.1	134.8	33.9
051.0	045.0000	0046.4	031.5	231.4	014.5158	0104.1	134.7	34.0
052.0	045.0000	0046.9	031.7	231.2	014.6030	0104.1	134.5	34.0
053.0	045.0000	0047.6	031.9	230.9	014.6921	0104.1	134.3	34.1
054.0	045.0000	0048.3	032.1	230.7	014.7832	0104.1	134.1	34.1
055.0	045.0000	0049.0	032.4	230.4	014.8761	0103.8	133.9	34.2
056.0	045.0000	0049.8	032.7	230.2	014.9713	0103.8	133.7	34.3
057.0	045.0000	0050.9	033.0	229.9	015.0705	0103.8	133.4	34.4
058.0	045.0000	0052.0	033.4	229.7	015.1714	0103.8	133.1	34.4
059.0	045.0000	0051.7	033.3	229.4	015.2628	0103.2	133.3	34.4
060.0	045.0000	0051.6	033.2	229.2	015.3549	0103.2	133.5	34.4
061.0	045.0000	0051.8	033.3	228.9	015.4501	0103.2	133.5	34.4
062.0	045.0000	0052.1	033.4	228.7	015.5466	0103.2	133.5	34.5
063.0	045.0000	0052.3	033.5	228.4	015.6426	0102.7	133.6	34.4
064.0	045.0000	0052.7	033.6	228.2	015.7409	0102.7	133.7	34.5
065.0	045.0000	0053.2	033.8	227.9	015.8414	0102.7	133.7	34.5
066.0	045.0000	0053.6	033.9	227.6	015.9411	0102.7	133.7	34.5
067.0	045.0000	0054.2	034.1	227.4	016.0433	0102.2	133.8	34.5
068.0	045.0000	0054.7	034.2	227.1	016.1466	0102.2	133.8	34.5
069.0	045.0000	0054.1	034.0	226.9	016.2270	0102.2	134.2	34.5
070.0	045.0000	0054.2	034.1	226.7	016.3199	0102.2	134.4	34.5
071.0	045.0000	0054.3	034.1	226.4	016.4126	0101.9	134.7	34.4
072.0	045.0000	0054.4	034.1	226.2	016.5042	0101.9	134.9	34.4
073.0	045.0000	0054.5	034.2	226.0	016.5965	0101.9	135.1	34.4
074.0	045.0000	0054.7	034.2	225.7	016.6900	0101.9	135.3	34.4
075.0	045.0000	0055.1	034.3	225.5	016.7865	0101.7	135.5	34.4
076.0	045.0000	0055.6	034.5	225.2	016.8846	0101.7	135.7	34.3
077.0	045.0000	0056.2	034.7	225.0	016.9874	0101.7	135.9	34.3
078.0	045.0000	0057.0	034.9	224.7	017.0937	0101.7	136.0	34.3
079.0	045.0000	0057.9	035.1	224.4	017.2018	0101.8	136.2	34.3
080.0	045.0000	0058.8	035.4	224.2	017.3110	0101.8	136.3	34.3

**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A7**

Predicted contours:

N. Lat. = 32 09 28 - Tabulated Protected and Interfering Contours  
W. Lng. = 80 59 31 - WLFS Radio Station - Port Wentworth, Georgia

HAAT and Distance to Contour - FCC Method - 03 Arc Second terrain database									
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	3.4	101.8	9.9287	9.97	.650	32.09	95.20	49.79	3.18
010	6.0	99.2	13.5736	11.33	.760	34.12	100.42	52.85	3.43
020	5.3	99.9	18.1984	12.60	.880	36.55	106.45	56.36	3.73
030	3.5	101.7	23.5000	13.71	1.000	38.86	112.45	59.72	4.03
040	3.9	101.3	23.5000	13.71	1.000	38.80	112.39	59.65	4.02
050	2.9	102.3	23.5000	13.71	1.000	38.96	112.56	59.83	4.04
060	3.4	101.8	23.5000	13.71	1.000	38.88	112.48	59.74	4.03
070	2.3	102.9	23.5000	13.71	1.000	39.05	112.67	59.94	4.05
080	2.3	102.9	23.5000	13.71	1.000	39.06	112.68	59.95	4.05
090	.9	104.3	23.5000	13.71	1.000	39.28	112.92	60.20	4.08
100	.9	104.3	23.5000	13.71	1.000	39.28	112.92	60.20	4.08
110	1.2	104.0	23.5000	13.71	1.000	39.23	112.86	60.14	4.07
120	1.0	104.2	23.5000	13.71	1.000	39.27	112.91	60.18	4.08
130	.0	105.2	23.5000	13.71	1.000	39.42	113.07	60.35	4.10
140	.0	105.2	23.5000	13.71	1.000	39.42	113.08	60.36	4.10
150	.0	105.2	23.5000	13.71	1.000	39.42	113.08	60.36	4.10
160	.0	105.2	23.5000	13.71	1.000	39.42	113.08	60.36	4.10
170	.6	104.6	23.5000	13.71	1.000	39.33	112.97	60.25	4.09
180	.2	105.0	23.5000	13.71	1.000	39.39	113.04	60.32	4.09
190	.5	104.7	23.5000	13.71	1.000	39.35	112.99	60.27	4.09
200	.0	105.2	23.5000	13.71	1.000	39.41	113.07	60.35	4.10
210	3.5	101.7	23.5000	13.71	1.000	38.86	112.46	59.72	4.03
220	2.1	103.1	19.0350	12.80	.900	37.42	107.95	57.46	3.83
230	1.4	103.8	15.0400	11.77	.800	35.67	103.18	54.87	3.60
240	1.0	104.2	11.5150	10.61	.700	33.64	98.20	51.92	3.35
250	1.1	104.1	7.9054	8.98	.580	30.72	91.76	47.62	3.01
260	1.0	104.2	5.0813	7.06	.465	27.79	84.77	42.78	2.67
270	1.0	104.2	3.2172	5.07	.370	25.09	77.73	38.10	2.35
280	1.2	104.0	2.1150	3.25	.300	22.78	71.40	34.06	2.08
290	1.8	103.4	1.4688	1.67	.250	20.84	66.02	30.74	1.86
300	2.4	102.8	1.4688	1.67	.250	20.79	65.92	30.65	1.85
310	3.9	101.3	1.4688	1.67	.250	20.63	65.63	30.40	1.84
320	3.5	101.7	2.1150	3.25	.300	22.54	70.99	33.65	2.07
330	3.7	101.5	3.2172	5.07	.370	24.78	77.25	37.60	2.33
340	3.4	101.8	4.7588	6.77	.450	27.08	83.34	41.61	2.60
350	1.4	103.8	7.3696	8.67	.560	30.18	90.57	46.77	2.95

AMSL= 105.2 M

**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A8**

CLEARANCE STUDY FOR WLFS, PORT WENTWORTH, GEORGIA  
USING PROPOSED SITE AS REFERENCE

REFERENCE		DISPLAY DATES
32 09 28 N	CLASS = C3	DATA 08-16-02
80 59 31 W	Current Spacings	SEARCH 08-20-02
----- Channel 220 - 91.9 MHz -----		

Call N. Lat.	Channel W. Lng.	Location Ant	Power	Dist HAAT	Azi	FCC	Margin
<b>WLFS</b>	<b>LIC 220A</b>	<b>Port Wentworth</b>	<b>GA</b>	<b>16.35</b>	<b>268.9</b>	<b>142.0</b>	<b>-125.65</b>
<b>32 09 17</b>	<b>81 09 55</b>	<b>DC</b>	<b>6.000 kW</b>	<b>55 M</b>			
<b>Radio Training Network, Inc.</b>				<b>BLER-20010122AIX</b>			
-----							
* <i>WBHCFM</i>	<i>LIC 221A</i>	<i>Hampton</i>	<i>SC</i>	<i>77.11</i>	<i>350.7</i>	<i>89.0</i>	<i>-11.89</i>
<i>32 50 38</i>	<i>81 07 32</i>	<i>CN</i>	<i>6.000 kW</i>	<i>100 M</i>			
<i>Hampton County Broadcaster</i>				<i>BLH-19980814KE</i>			
<i>WSKX</i>	<i>LIC 222C2</i>	<i>Hinesville</i>	<i>GA</i>	<i>63.81</i>	<i>216.2</i>	<i>56.0</i>	<i>7.81</i>
<i>31 41 37</i>	<i>81 23 27</i>	<i>CN</i>	<i>50.000 kW</i>	<i>147 M</i>			
<i>Communications Capital Com</i>				<i>BLH-19911029KB</i>			
<i>WASW</i>	<i>LIC 220A</i>	<i>Waycross</i>	<i>GA</i>	<i>166.30</i>	<i>231.5</i>	<i>142.0</i>	<i>24.30</i>
<i>31 13 07</i>	<i>82 21 34</i>	<i>C</i>	<i>1.200 kW</i>	<i>45 M</i>			
<i>American Family Assoc.</i>				<i>BLER-20010621AAC</i>			
<i>WKCL</i>	<i>LIC 218C1</i>	<i>Ladson</i>	<i>SC</i>	<i>126.75</i>	<i>41.7</i>	<i>76.0</i>	<i>50.75</i>
<i>33 00 24</i>	<i>80 05 17</i>	<i>CN</i>	<i>100.000 kW</i>	<i>93 M</i>			
<i>Chapel Holy Spirit Church</i>				<i>BLER-19900227KA</i>			
<i>WHLZ.C CP</i>	<i>223C</i>	<i>Moncks Corner</i>	<i>SC</i>	<i>148.22</i>	<i>54.5</i>	<i>96.0</i>	<i>52.22</i>
<i>32 55 28</i>	<i>79 41 58</i>	<i>DC</i>	<i>100.000 kW</i>	<i>540 M</i>			
<i>Apex Broadcasting, Inc.</i>				<i>BPH-20020318AAT</i>			
<i>WHLZ.A APP</i>	<i>223C1</i>	<i>Moncks Corner</i>	<i>SC</i>	<i>131.04</i>	<i>55.6</i>	<i>76.0</i>	<i>55.04</i>
<i>32 49 04</i>	<i>79 50 08</i>	<i>CX</i>	<i>100.000 kW</i>	<i>237 M</i>			
<i>Apex Broadcasting, Inc.</i>				<i>BMPH-20020717AAC</i>			
<i>ALLO</i>	<i>VAC 223C1</i>	<i>Manning</i>	<i>SC</i>	<i>131.04</i>	<i>55.6</i>	<i>76.0</i>	<i>55.04</i>
<i>32 49 04</i>	<i>79 50 08</i>		<i>100.000 kW</i>	<i>299 M</i>			
<i>WNLE</i>	<i>LIC 219C2</i>	<i>Fernandina Beach</i>	<i>FL</i>	<i>177.70</i>	<i>196.8</i>	<i>117.0</i>	<i>60.70</i>
<i>30 37 23</i>	<i>81 31 49</i>	<i>CN</i>	<i>32.000 kW</i>	<i>68 M</i>			
<i>Nassau Baptist Ministries</i>				<i>BLER-19980626KD</i>			

\* Note: Processing pursuant to §73.215 is requested. See Exhibit A for details.

**Graham Brock, Inc. - Broadcast Technical Consultants**

**WLFS Proposed**

Latitude: 32-09-28 N  
Longitude: 080-59-31 W  
ERP: 23.50 kW  
Channel: 220C3  
AMSL Height: 105.2 m

**WBHC-FM**

BLH-19980814KE  
Latitude: 32-50-38 N  
Longitude: 081-07-32 W  
ERP: 6.00 kW  
Channel: 221A  
AMSL Height: 127.0 m

**WBHC-FM 54 dBu (50/10)**

**WBHC-FM 60 dBu (50/50)**

**Proposed WLFS 54 dBu (50/10)**

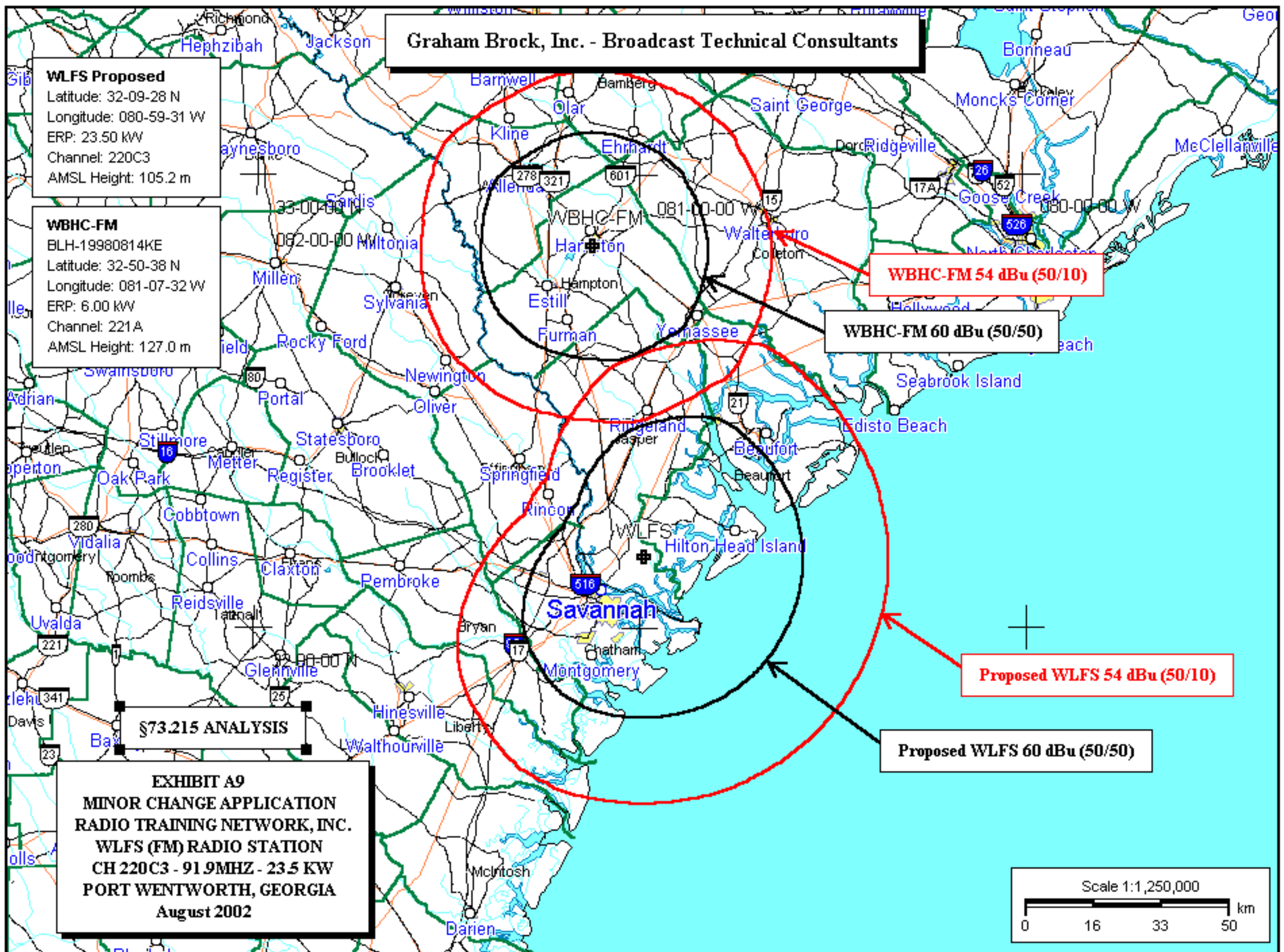
**Proposed WLFS 60 dBu (50/50)**

**§73.215 ANALYSIS**

**EXHIBIT A9  
MINOR CHANGE APPLICATION  
RADIO TRAINING NETWORK, INC.  
WLFS (FM) RADIO STATION  
CH 220C3 - 91.9MHZ - 23.5 KW  
PORT WENTWORTH, GEORGIA  
August 2002**

Scale 1:1,250,000

0 16 33 50 km



**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A10**

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

WBHC-FM - BLH-19980814KE  
Channel = 221A  
Max ERP = 6 kW  
RCAMSL = 127 M  
N. Lat = 32 50 38  
W. Lng = 81 07 32

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)
345.0	005.9931	0103.7	028.8	174.0	006.0000	0098.1	048.6	52.0
346.0	006.2570	0103.8	029.1	173.5	006.0000	0098.7	048.2	52.2
347.0	006.5266	0103.8	029.4	172.9	006.0000	0098.7	047.9	52.3
348.0	006.8019	0103.9	029.6	172.3	006.0000	0099.5	047.5	52.5
349.0	007.0829	0103.9	029.9	171.7	006.0000	0099.5	047.2	52.6
350.0	007.3696	0103.8	030.2	171.1	006.0000	0100.5	046.9	52.8
351.0	007.6084	0103.7	030.4	170.4	006.0000	0101.2	046.7	52.9
352.0	007.8510	0103.6	030.6	169.8	006.0000	0101.2	046.5	53.0
353.0	008.0974	0103.4	030.8	169.1	006.0000	0101.7	046.4	53.1
354.0	008.3476	0103.2	031.0	168.4	006.0000	0102.2	046.2	53.2
355.0	008.6016	0103.1	031.2	167.7	006.0000	0102.2	046.1	53.2
356.0	008.8594	0102.9	031.4	167.0	006.0000	0102.6	046.0	53.3
357.0	009.1210	0102.7	031.6	166.3	006.0000	0103.1	045.9	53.4
358.0	009.3865	0102.5	031.8	165.6	006.0000	0103.1	045.8	53.4
359.0	009.6557	0102.2	031.9	164.9	006.0000	0103.3	045.8	53.5
000.0	009.9287	0101.8	032.1	164.1	006.0000	0103.3	045.8	53.5
001.0	010.2676	0101.5	032.3	163.4	006.0000	0103.2	045.7	53.5
002.0	010.6122	0101.2	032.5	162.6	006.0000	0103.2	045.7	53.5
003.0	010.9625	0100.8	032.7	161.9	006.0000	0103.1	045.7	53.5
004.0	011.3184	0100.4	032.9	161.1	006.0000	0102.9	045.8	53.4
005.0	011.6801	0100.0	033.1	160.4	006.0000	0102.9	045.8	53.4
006.0	012.0474	0099.5	033.2	159.6	006.0000	0102.9	045.9	53.4
007.0	012.4204	0099.4	033.4	158.9	006.0000	0102.8	046.0	53.3
008.0	012.7991	0099.3	033.7	158.1	006.0000	0102.4	046.1	53.3
009.0	013.1835	0099.2	033.9	157.3	006.0000	0102.3	046.2	53.2
010.0	013.5736	0099.2	034.1	156.6	006.0000	0102.3	046.3	53.2
011.0	014.0056	0099.2	034.4	155.8	006.0000	0102.2	046.5	53.1
012.0	014.4444	0099.2	034.6	155.0	006.0000	0102.0	046.6	53.0
013.0	014.8900	0099.2	034.9	154.2	006.0000	0101.9	046.8	52.9
014.0	015.3423	0099.3	035.1	153.5	006.0000	0101.8	047.0	52.9
015.0	015.8014	0099.4	035.4	152.7	006.0000	0101.8	047.2	52.8
016.0	016.2673	0099.7	035.6	151.9	006.0000	0102.0	047.4	52.7
017.0	016.7399	0100.0	035.9	151.2	006.0000	0102.2	047.7	52.6
018.0	017.2193	0100.0	036.1	150.5	006.0000	0102.4	048.0	52.5
019.0	017.7055	0099.9	036.3	149.8	006.0000	0102.4	048.3	52.4
020.0	018.1984	0099.9	036.6	149.1	006.0000	0102.7	048.7	52.3

**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9 MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

**EXHIBIT A11**

WBHC-FM - BLH-19980814KE  
Channel = 221A  
Max ERP = 6 kW  
RCAMSL = 127 M  
N. Lat = 32 50 38  
W. Lng = 81 07 32

WLFS - Proposed  
Channel = 220C3  
Max ERP = 23.5 kW  
RCAMSL = 105.2 M  
N. Lat = 32 09 28  
W. Lng = 80 59 31

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)
141.0	006.0000	0105.4	029.0	006.0	012.0601	0099.5	053.8	53.1
142.0	006.0000	0105.0	028.9	005.6	011.8957	0099.5	053.5	53.2
143.0	006.0000	0104.6	028.9	005.2	011.7363	0100.0	053.2	53.3
144.0	006.0000	0104.1	028.8	004.7	011.5736	0100.0	052.9	53.3
145.0	006.0000	0103.7	028.8	004.3	011.4116	0100.4	052.7	53.4
146.0	006.0000	0103.5	028.8	003.8	011.2515	0100.4	052.4	53.5
147.0	006.0000	0103.3	028.7	003.4	011.0913	0100.8	052.1	53.5
148.0	006.0000	0103.1	028.7	002.9	010.9259	0100.8	051.8	53.6
149.0	006.0000	0102.7	028.6	002.4	010.7536	0101.2	051.6	53.6
150.0	006.0000	0102.4	028.6	001.9	010.5840	0101.2	051.3	53.6
151.0	006.0000	0102.2	028.6	001.4	010.4152	0101.5	051.1	53.7
152.0	006.0000	0102.0	028.6	000.9	010.2441	0101.5	050.9	53.7
153.0	006.0000	0101.8	028.5	000.4	010.0734	0101.8	050.7	53.7
154.0	006.0000	0101.9	028.5	359.9	009.9101	0101.8	050.4	53.7
155.0	006.0000	0102.0	028.6	359.4	009.7726	0102.2	050.2	53.8
156.0	006.0000	0102.2	028.6	358.9	009.6351	0102.2	050.0	53.8
157.0	006.0000	0102.3	028.6	358.4	009.4942	0102.5	049.8	53.9
158.0	006.0000	0102.4	028.6	357.9	009.3528	0102.5	049.6	53.9
159.0	006.0000	0102.8	028.7	357.3	009.2125	0102.7	049.4	53.9
160.0	006.0000	0102.9	028.7	356.8	009.0695	0102.7	049.2	53.9
161.0	006.0000	0102.9	028.7	356.2	008.9237	0102.9	049.1	53.9
162.0	006.0000	0103.1	028.7	355.7	008.7784	0102.9	048.9	53.9
163.0	006.0000	0103.2	028.7	355.1	008.6332	0103.1	048.8	53.9
164.0	006.0000	0103.3	028.7	354.6	008.4876	0103.1	048.7	53.8
165.0	006.0000	0103.3	028.7	354.0	008.3414	0103.2	048.6	53.8
166.0	006.0000	0103.1	028.7	353.4	008.1943	0103.4	048.6	53.7
167.0	006.0000	0102.6	028.6	352.8	008.0474	0103.4	048.6	53.7
168.0	006.0000	0102.2	028.6	352.2	007.9025	0103.6	048.6	53.6
169.0	006.0000	0101.7	028.5	351.6	007.7594	0103.6	048.6	53.5
170.0	006.0000	0101.2	028.5	351.0	007.6180	0103.7	048.7	53.4
171.0	006.0000	0100.5	028.4	350.5	007.4792	0103.8	048.8	53.3
172.0	006.0000	0099.5	028.2	349.9	007.3376	0103.8	048.9	53.2
173.0	006.0000	0098.7	028.1	349.3	007.1754	0103.9	049.0	53.0
174.0	006.0000	0098.1	028.0	348.8	007.0167	0103.9	049.2	52.9
175.0	006.0000	0097.6	028.0	348.2	006.8613	0103.9	049.3	52.7
176.0	006.0000	0097.1	027.9	347.7	006.7095	0103.9	049.4	52.6
177.0	006.0000	0096.6	027.8	347.1	006.5608	0103.8	049.5	52.4
178.0	006.0000	0096.2	027.8	346.6	006.4155	0103.8	049.7	52.3
179.0	006.0000	0095.6	027.7	346.1	006.2759	0103.8	049.9	52.1
180.0	006.0000	0095.1	027.6	345.6	006.1384	0103.8	050.1	52.0
181.0	006.0000	0095.0	027.6	345.0	006.0016	0103.7	050.2	51.8



**Graham Brock, Inc. - Broadcast Technical Consultants**

**WLFS Proposed**

Latitude: 32-09-28 N  
Longitude: 080-59-31 W  
ERP: 23.50 kW  
Channel: 220C3  
AMSL Height: 105.2 m

**WJBF License**

BLCT-2443  
Latitude: 33-24-15 N  
Longitude: 081-50-19 W  
ERP: 100.00 kW  
Channel: 06+  
AMSL Height: 497.0 m

**WJBF CP**

BPCT-19980909KE  
Latitude: 33-24-18 N  
Longitude: 081-50-15 W  
ERP: 100.00 kW  
Channel: 06+  
AMSL Height: 563.0 m

**WJBF Lic 47 dBu (50/50)**

**WJBF CP 47 dBu (50/50)**

**Proposed WLFS 86 dBu (50/10)**

**CHANNEL 6 ANALYSIS**

**EXHIBIT A12**  
**MINOR CHANGE APPLICATION**  
**RADIO TRAINING NETWORK, INC.**  
**WLFS (FM) RADIO STATION**  
**CH 220C3 - 91.9MHZ - 23.5 KW**  
**PORT WENTWORTH, GEORGIA**  
**August 2002**

Scale 1:1,500,000

