

**Engineering Statement
In Support of a
Minor Modification of a Construction Permit
WKGA(FM), Channel 262A, Dadeville, Alabama**

September, 2006

General

As broadcast technical consultants doing business as Reynolds Technical Associates (RTA), we have been authorized by Great South RFDC, L.L.C. (herein referred to as “Great South” as well as “The Applicant”), licensee of WKGA, Dadeville, Alabama, to conduct engineering studies and prepare the engineering portion of a minor modification of a construction permit.

This instant application is seeking to change transmitter relocation, effective radiated power and all elevations of the transmitting antenna from the construction permit issued in response to file number BPH-20060407ACH.

Exhhibits Explained

Exhibit E, Figure 1 is a channel spacing study for the proposed, showing the facilities considered.

The terrain averaging and contour study (Exhibit E, Figure 2) displays the terrain data and contours in 5 (five) degree intervals.

Exhibit E, Figure 3 is the service contour map displaying the FCC F(50,50) 70 and 60 dBu contours of the proposed.

The protection afforded WGSY, channel 261A, Phenix City, Alabama is demonstrated in Exhibit E, Figures 4 through 8. These exhibits conclusively show that the proposed WKGA facility will not create prohibited interference with WGSY.

Exhibit E, Figure 9 is a vertical sketch of the proposed antenna supporting structure. The FAA is being notified of the proposed tower.

The distance to the blanketing contour is calculated to be 0.578 kilometer (0.359 mile).

Human Exposure
(No Exhibits)

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with the RF Worksheet #1 [FCC 301 Worksheet 7 (Page 4 and 5)].

The antenna for The Applicant's proposed FM broadcast station is to be placed on a new tower. The proposed center of radiation above ground level of 149 meters, with an ERP of 2.15 kW (horizontally and vertically). The controlled/occupational limit, as well as the uncontrolled/general public limit is in compliance. Power density two (2) meters above ground is 0.007 mW/cm^2 , well below the maximum allowable limit of 0.2 mW/cm^2 for uncontrolled/general public exposure limits as well as the 1.0 mW/cm^2 for controlled/occupational exposure limits

Should anyone be required to climb the tower, WKGA will either reduce power or cease operation, so as to prevent hazardous exposure to radiofrequency radiation.

Environmental Impact
(No Exhibits)

A grant of the proposed construction would not constitute a major action as defined in the Commission's Rules and Regulations.

During operation, the facility will produce no chemical or significant thermal pollution, and no ionizing radiation will be generated. Areas of high intensity radiofrequency fields

will be confined to the immediate area of the transmitting antenna, far above the ground and away from any human and wildlife population.

The area is not officially designated as a wilderness area or wildlife preserve and is not pending consideration. The area has no significant value in American history, architecture, archaeology, or culture, which is listed in the Register of Historic Places, and it is not eligible for listing. It is not recognized either nationally or locally for special scenic or recreational value.

Conclusion

This statement/application has been prepared for The Applicant by utilizing the latest available information, cross-checked with the Federal Communications Commission and other sources. Therefore, it is submitted that the engineering data compiled and demonstrated herein for the proposed is in compliance with Commission's Rules and Regulations at the time of this application's filing date. We welcome the opportunity to discuss with the staff of the Federal Communications Commission the engineering data contained in this application. Should any questions arise concerning the information, please contact us.

The following pages are exhibits prepared and assembled in support of the proposed.

Statement of the Consultants

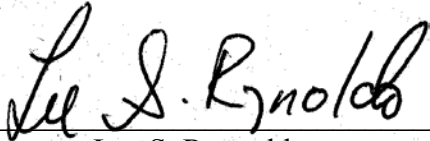
The instant engineering statement was prepared for the Applicant and supports a minor modification of a construction permit of WKGA, Dadeville, Alabama. It was developed by RTA and may not be used for purposes other than submission to the Commission by The Applicant.

It may not be reproduced in its entirety, or in part, by anyone (other than from the Commission) without the written consent of RTA.

It is prepared for The Applicant under contractual agreement, and its certification by RTA is used accordingly. If The Applicant fails in its contractual obligation, RTA reserves the right to withdraw its certification.

The information in this application is compiled from the most recent Commission and outside data. RTA is not responsible for errors resulting from incorrect data or unpublished rule and procedure changes.

For RTA:



Lee S. Reynolds

September 11th, 2006

6930 Cahaba Valley Road, Suite 202
Birmingham, Alabama 35242
(205) 618-2020

**Engineering Statement
In Support of a
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WKGA(FM), Channel 262A, Dadeville, Alabama**

WKGA Channel Spacing Study

REFERENCE		DISPLAY DATES
32 45 38 N	CLASS = A	DATA 09-08-06
85 40 24 W	Current Spacings	SEARCH 09-11-06
----- Channel 262 - 100.3 MHz -----		

Call	Channel	Location	Dist	Azi	FCC	Margin
WKGA.C	CP 262A	Dadeville	AL 18.52	313.7	115.0	-96.48
WKGA	LIC 262A	Dadeville	AL 19.37	314.6	115.0	-95.63
AL262	RSV 262A	Dadeville	AL 19.37	314.6	115.0	-95.63

Of no concern:
Coordinates used by WKGA

WQNR.C	CP	260A	Tallassee	AL	21.04	205.5	31.0	-9.96
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Of no concern:
The construction permit for WQNR (BPH-20010618AAS) expired at 3:00 am central time on September 11, 2006.

WGSY	LIC	261A	Phenix City	AL	67.97	113.9	72.0	-4.03
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Of concern:
Protection afforded by \$73.215.

WQNR	LIC	260A	Tallassee	AL	37.19	198.0	31.0	6.19
WAOQ	LIC	262A	Brantley	AL	127.66	203.8	115.0	12.66
AL261	VAC	261C3	Anniston	AL	102.92	352.7	89.0	13.92
WOBB	LIC	262C0	Tifton	GA	233.68	128.7	215.0	18.68
WRAX	LIC-N	263C1	Northport	AL	152.46	284.6	133.0	19.46
WRAX.C	CP	263C1	Helena	AL	152.46	284.6	133.0	19.46
AL263	RSV	263C1	Helena	AL	153.15	285.5	133.0	20.15
WCJMF	LIC-N	265A	West Point	GA	51.22	78.4	31.0	20.22
AP264	APP	264A	Ashland	AL	53.01	344.5	31.0	22.01
AU062	VAC	264A	Ashland	AL	53.01	344.5	31.0	22.01
WDXX.C	CP	261C2	Selma	AL	128.44	253.1	106.0	22.44
WDXX	LIC	261C2	Selma	AL	130.71	254.2	106.0	24.71
AP209	APP-D	209A	Alexander City	AL	36.03	306.1	10.0	26.03
AP264	APP	264A	Ashland	AL	57.69	347.0	31.0	26.69
AP264	APP	264A	Ashland	AL	58.91	349.1	31.0	27.91

**Engineering Statement
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WKGA Terrain/Contour Study

Azimuth (°T)	Average Terrain (m)	HAAT (m)	Distance to F (50,50) 70 dBu (km)	Distance to F (50,50) 60 dBu (km)
0.0	195.6	172.4	16.6	28.6
5.0	194.4	173.6	16.6	28.6
10.0	197.2	170.8	16.5	28.4
15.0	201.6	166.4	16.2	28.1
20.0	205.2	162.8	16.0	27.8
25.0	210.0	158.0	15.7	27.4
30.0	209.0	159.0	15.8	27.5
35.0	213.0	155.0	15.6	27.2
40.0	217.2	150.8	15.3	26.9
45.0	219.8	148.2	15.1	26.7
50.0	220.6	147.4	15.1	26.6
55.0	213.7	154.3	15.5	27.1
60.0	207.0	161.0	15.9	27.7
65.0	209.7	158.3	15.7	27.5
70.0	207.0	161.0	15.9	27.7
75.0	217.3	150.7	15.3	26.9
80.0	215.9	152.1	15.4	27.0
85.0	209.5	158.5	15.8	27.5
90.0	207.8	160.2	15.9	27.6
95.0	208.4	159.6	15.8	27.6
100.0	209.6	158.4	15.8	27.5
105.0	214.3	153.7	15.5	27.1
110.0	212.2	155.8	15.6	27.3
115.0	208.5	159.5	15.8	27.6
120.0	204.1	163.9	16.1	27.9
125.0	202.7	165.3	16.2	28.0
130.0	199.7	168.3	16.3	28.2
135.0	201.0	167.0	16.3	28.1
140.0	199.5	168.5	16.3	28.3
145.0	200.4	167.6	16.3	28.2
150.0	201.4	166.6	16.2	28.1
155.0	197.8	170.2	16.4	28.4
160.0	205.5	162.5	16.0	27.8

continued

Azimuth	Average		Distance to	Distance to
(°T)	Terrain (m)	HAAT (m)	F (50,50)	F (50,50)
			70 dBu (km)	60 dBu (km)
165.0	213.1	154.9	15.5	27.2
170.0	213.0	155.0	15.6	27.2
175.0	205.2	162.8	16.0	27.8
180.0	198.7	169.3	16.4	28.3
185.0	190.9	177.1	16.8	28.9
190.0	192.8	175.2	16.7	28.8
195.0	196.0	172.0	16.5	28.5
200.0	193.3	174.7	16.7	28.7
205.0	188.4	179.6	16.9	29.1
210.0	192.8	175.2	16.7	28.8
215.0	190.6	177.4	16.8	28.9
220.0	190.7	177.3	16.8	28.9
225.0	189.4	178.6	16.9	29.0
230.0	187.6	180.4	17.0	29.2
235.0	181.9	186.1	17.2	29.6
240.0	182.3	185.7	17.2	29.5
245.0	178.0	190.0	17.4	29.8
250.0	165.8	202.2	17.9	30.8
255.0	163.0	205.0	18.0	31.0
260.0	169.2	198.8	17.8	30.5
265.0	175.8	192.2	17.5	30.0
270.0	181.3	186.7	17.2	29.6
275.0	194.4	173.6	16.6	28.6
280.0	192.4	175.6	16.7	28.8
285.0	191.6	176.4	16.8	28.9
290.0	190.2	177.8	16.8	29.0
295.0	186.5	181.5	17.0	29.2
300.0	186.1	181.9	17.0	29.3
305.0	185.0	183.0	17.1	29.3
310.0	185.8	182.2	17.0	29.3
315.0	189.2	178.8	16.9	29.0
320.0	193.9	174.1	16.6	28.7
325.0	195.5	172.5	16.6	28.6
330.0	194.7	173.3	16.6	28.6
335.0	197.8	170.2	16.4	28.4
340.0	197.4	170.6	16.5	28.4
345.0	196.5	171.5	16.5	28.5
350.0	192.5	175.5	16.7	28.8
355.0	194.9	173.1	16.6	28.6

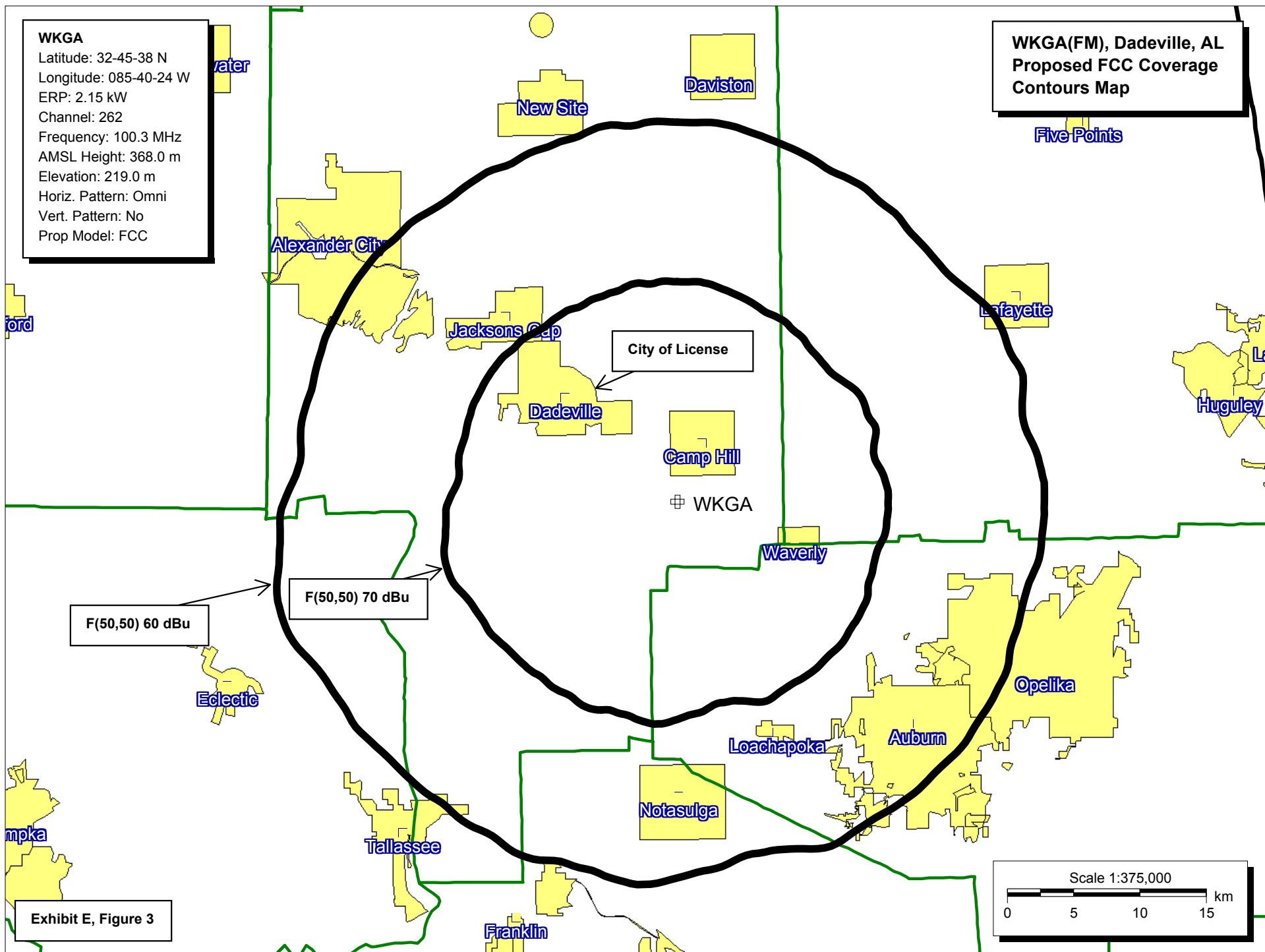
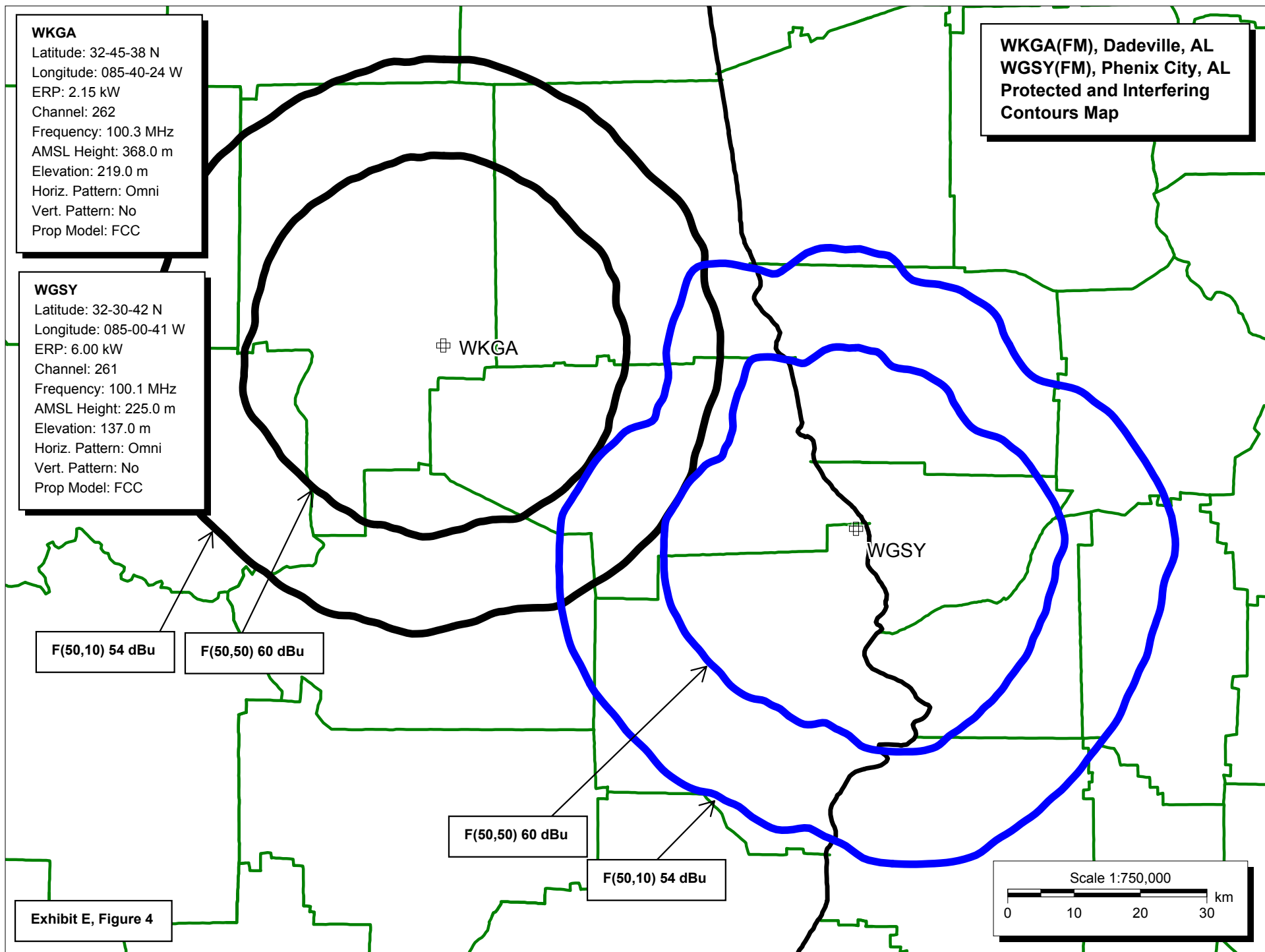


Exhibit E, Figure 3



WKGA

Latitude: 32-45-38 N
Longitude: 085-40-24 W
ERP: 2.15 kW
Channel: 262
Frequency: 100.3 MHz
AMSL Height: 368.0 m
Elevation: 219.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC

WGSY

Latitude: 32-30-42 N
Longitude: 085-00-41 W
ERP: 6.00 kW
Channel: 261
Frequency: 100.1 MHz
AMSL Height: 225.0 m
Elevation: 137.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC

**WGSY(FM) Protected and
WKGA(FM) Interfering
Contours (Zoomed View)**

WKGA(FM) F(50,10) 54 dBu

WGSY(FM) F(50,50) 60 dBu

Exhibit E, Figure 5

Scale 1:10,000
0 0.13 0.27 0.4 km

WKGA

Latitude: 32-45-38 N
Longitude: 085-40-24 W
ERP: 2.15 kW
Channel: 262
Frequency: 100.3 MHz
AMSL Height: 368.0 m
Elevation: 219.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC

WGSY

Latitude: 32-30-42 N
Longitude: 085-00-41 W
ERP: 6.00 kW
Channel: 261
Frequency: 100.1 MHz
AMSL Height: 225.0 m
Elevation: 137.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC

WKGA(FM) F(50,50) 60 dBu

**WKGA(FM) Protected and
WGSY(FM) Interfering
Contours (Zoomed View)**

WGSY(FM) F(50,10) 54 dBu

Exhibit E, Figure 6

Scale 1:10,000
0 0.13 0.27 0.4 km

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WKGA(FM), Channel 262A, Dadeville, Alabama**

WKGA Protected/WGSY Interfering FM Overlap Study

WKGA
Channel= 262
Max ERP = 2.15 kW
RCAMSL = 368 M
N. Lat = 324538
W. Lng = 854024

WGSY
Channel = 261
Max ERP = 6 kW
RCAMSL = 225 M
N. Lat = 323042
W. Lng = 850041

Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
110.0	2.150	155.8	27.3	296.6	6.000	65.8	40.8	51.8
111.0	2.150	156.2	27.3	295.9	6.000	67.5	40.8	52.0
112.0	2.150	156.2	27.3	295.3	6.000	69.4	40.7	52.2
113.0	2.150	156.4	27.3	294.6	6.000	71.1	40.7	52.4
114.0	2.150	157.4	27.4	293.9	6.000	72.6	40.6	52.6
115.0	2.150	159.4	27.6	293.2	6.000	73.9	40.5	52.8
116.0	2.150	161.6	27.7	292.5	6.000	74.9	40.3	53.0
117.0	2.150	163.1	27.8	291.8	6.000	75.6	40.2	53.1
118.0	2.150	163.6	27.9	291.1	6.000	76.3	40.2	53.2
119.0	2.150	163.7	27.9	290.4	6.000	77.0	40.3	53.2
120.0	2.150	163.8	27.9	289.8	6.000	77.8	40.4	53.3
121.0	2.150	164.3	27.9	289.1	6.000	78.8	40.4	53.4
122.0	2.150	164.9	28.0	288.4	6.000	79.9	40.5	53.4
123.0	2.150	165.2	28.0	287.7	6.000	81.1	40.6	53.5
124.0	2.150	165.3	28.0	287.0	6.000	82.1	40.7	53.6
125.0	2.150	165.3	28.0	286.4	6.000	83.1	40.9	53.6
126.0	2.150	165.4	28.0	285.7	6.000	84.0	41.0	53.6
127.0	2.150	165.8	28.0	285.1	6.000	84.9	41.2	53.7
128.0	2.150	166.6	28.1	284.4	6.000	85.7	41.3	53.7
129.0	2.150	167.5	28.2	283.8	6.000	86.4	41.5	53.7
130.0	2.150	168.2	28.2	283.1	6.000	87.1	41.6	53.7
131.0	2.150	168.4	28.2	282.5	6.000	87.8	41.8	53.7
132.0	2.150	168.2	28.2	281.9	6.000	88.4	42.1	53.6
133.0	2.150	167.9	28.2	281.4	6.000	89.0	42.4	53.6
134.0	2.150	167.4	28.2	280.8	6.000	89.6	42.7	53.5
135.0	2.150	166.9	28.1	280.3	6.000	90.2	43.0	53.5
136.0	2.150	166.8	28.1	279.8	6.000	90.9	43.3	53.4
137.0	2.150	167.2	28.2	279.3	6.000	91.6	43.5	53.4
138.0	2.150	167.7	28.2	278.7	6.000	92.3	43.8	53.3
139.0	2.150	168.1	28.2	278.2	6.000	93.0	44.1	53.3
140.0	2.150	168.5	28.3	277.7	6.000	93.8	44.4	53.2
141.0	2.150	168.5	28.3	277.2	6.000	94.6	44.8	53.1
142.0	2.150	168.2	28.2	276.8	6.000	95.4	45.1	53.1
143.0	2.150	168.0	28.2	276.4	6.000	96.1	45.5	53.0
144.0	2.150	167.9	28.2	276.0	6.000	96.7	45.9	52.9
145.0	2.150	167.6	28.2	275.6	6.000	97.4	46.2	52.8

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WKGA(FM), Channel 262A, Dadeville, Alabama**

WGSY Protected/WKGA Interfering FM Overlap Study

WGSY

Channel= 261

Max ERP = 6 kW

RCAMSL = 225 M

N. Lat = 323042

W. Lng = 850041

WKGA

Channel = 262

Max ERP = 2.15 kW

RCAMSL = 368 M

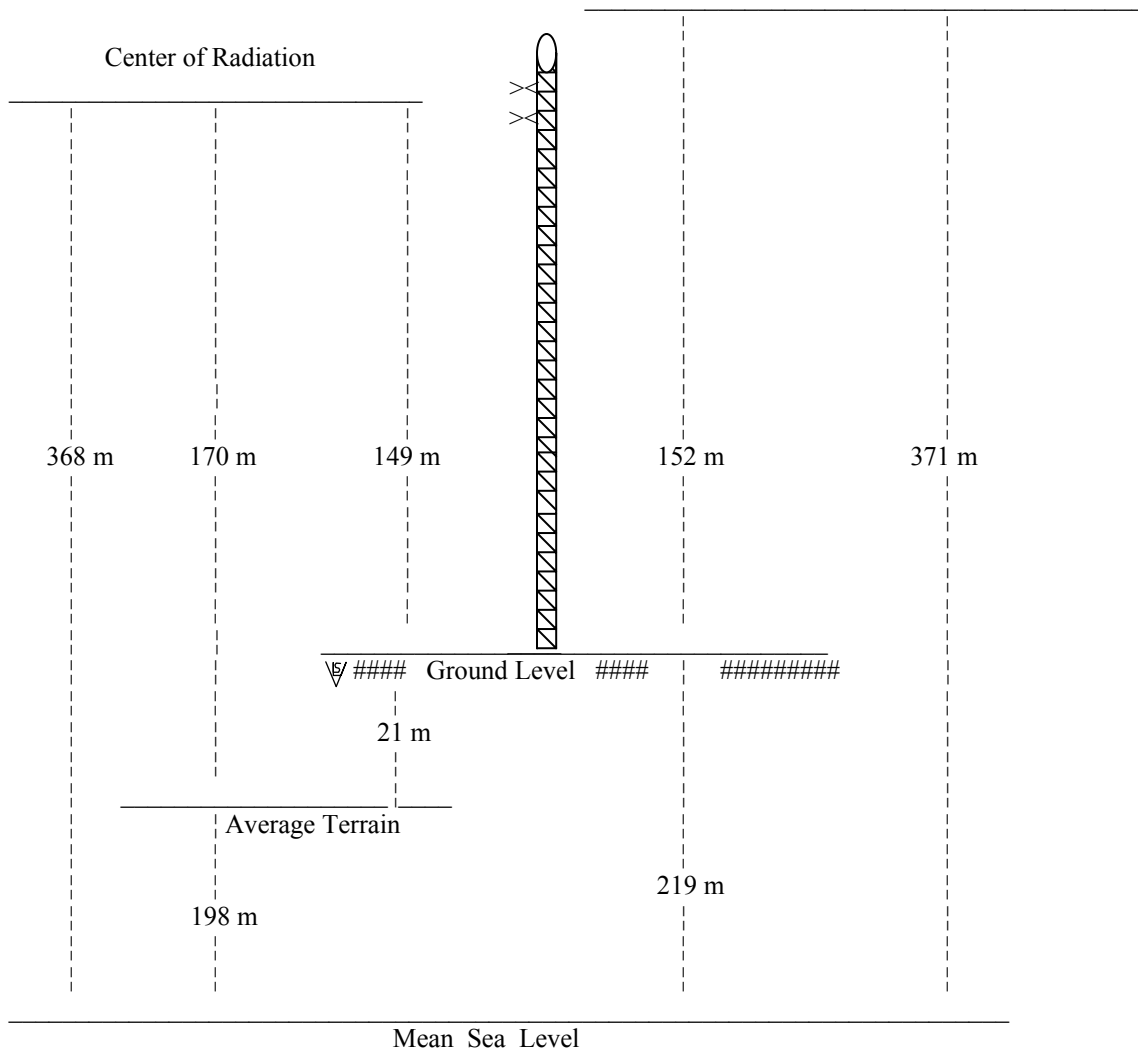
N. Lat = 324538

W. Lng = 854024

Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
250.0	6.000	114.0	30.1	138.2	2.150	167.8	50.8	50.6
251.0	6.000	113.5	30.0	137.9	2.150	167.6	50.4	50.8
252.0	6.000	113.1	29.9	137.6	2.150	167.5	49.9	51.0
253.0	6.000	112.7	29.9	137.3	2.150	167.3	49.5	51.1
254.0	6.000	112.3	29.9	137.0	2.150	167.1	49.0	51.3
255.0	6.000	111.9	29.8	136.6	2.150	167.0	48.6	51.5
256.0	6.000	111.3	29.7	136.3	2.150	166.9	48.2	51.6
257.0	6.000	110.6	29.6	135.9	2.150	166.8	47.7	51.8
258.0	6.000	110.0	29.6	135.5	2.150	166.8	47.3	51.9
259.0	6.000	109.3	29.5	135.0	2.150	166.9	47.0	52.1
260.0	6.000	108.5	29.4	134.6	2.150	167.1	46.6	52.2
261.0	6.000	107.8	29.3	134.1	2.150	167.3	46.2	52.4
262.0	6.000	107.4	29.3	133.7	2.150	167.6	45.9	52.6
263.0	6.000	107.0	29.2	133.2	2.150	167.8	45.5	52.7
264.0	6.000	106.3	29.1	132.7	2.150	168.0	45.2	52.9
265.0	6.000	105.8	29.0	132.2	2.150	168.1	44.8	53.0
266.0	6.000	105.4	29.0	131.7	2.150	168.3	44.5	53.2
267.0	6.000	105.1	29.0	131.3	2.150	168.4	44.2	53.3
268.0	6.000	104.6	28.9	130.7	2.150	168.4	43.9	53.5
269.0	6.000	104.3	28.0	130.2	2.150	168.3	43.5	53.6
270.0	6.000	104.0	28.8	129.7	2.150	168.0	43.2	53.7
271.0	6.000	103.6	28.8	129.1	2.150	167.6	43.0	53.8
272.0	6.000	103.3	28.7	128.5	2.150	167.1	42.7	53.9
273.0	6.000	102.4	28.6	127.9	2.150	166.5	42.5	54.0
274.0	6.000	100.7	28.4	127.2	2.150	165.9	42.4	54.0
275.0	6.000	98.7	28.1	126.4	2.150	165.6	42.4	54.0
276.0	6.000	96.7	27.9	125.7	2.150	165.3	42.3	54.0
277.0	6.000	95.0	27.6	124.9	2.150	165.3	42.3	54.0
278.0	6.000	93.3	27.4	124.2	2.150	165.3	42.3	54.0
279.0	6.000	91.9	27.2	123.5	2.150	165.2	42.3	54.0
280.0	6.000	90.6	27.0	122.8	2.150	165.1	42.3	54.0
281.0	6.000	89.4	26.8	122.2	2.150	164.9	42.2	54.0
282.0	6.000	88.3	26.7	121.5	2.150	164.6	42.2	54.0
283.0	6.000	87.3	26.5	120.8	2.150	164.2	42.2	54.0
284.0	6.000	86.2	26.4	120.2	2.150	163.9	42.2	54.0
285.0	6.000	85.0	26.2	119.5	2.150	163.7	42.3	53.9
286.0	6.000	83.6	26.0	118.8	2.150	163.7	42.4	53.9
287.0	6.000	82.2	25.8	118.2	2.150	163.7	42.5	53.8
288.0	6.000	80.6	25.6	117.5	2.150	163.4	42.6	53.8

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WKGA Supporting Structure (Vertical Sketch)



Proposed Location - 32° 45' 38" N. Lat. 85° 40' 24" W. Long. [NAD 27]

NOT DRAWN TO SCALE

Proposed antenna: 2 element