PHASETEK INC.

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ENGINEERING STATEMENT
WBGX 1570 KHZ
HARVEY, ILLINOIS

With regard to the Commission's letter of October 26, 2006, concerning the application to modify Radio Station WBGX, 1570 kHz, Harvey, Illinois; the following items have been addressed.

1. Concerning the proposed Daytime RMS, based upon a recalculation it was determined a conversion error slightly changed the 1.0 ohm RMS value. The correct value was calculated to be 640.75 mV/m @ 1 kM. This has been changed on the 301 Application and a revised Polar Plot is attached as Exhibit #1.

2. Concerning Night operation, the proposed application proposes no change from the present licensed radiation. However, licensed Tower parameters indicate Tower #1 as the South Tower. Currently Tower #1 is the North Tower as operating. The following parameters are proposed:

PHASETEK INC.

ENGINEERING STATEMENT
WBGX 1570 KHZ
HARVEY, ILLINOIS
CONTINUED

Licensed Night:

Tower	Field Ratio	Phase	Spacing	Orientation	Height	Ref
1	.520	-44.2°	0.0°	0.0°	86.5°	0
2	.820	166.6°	90.0°	5.0°	86.5°	0
3	1.000	0.0°	90.0°	5.0°	86.5°	1

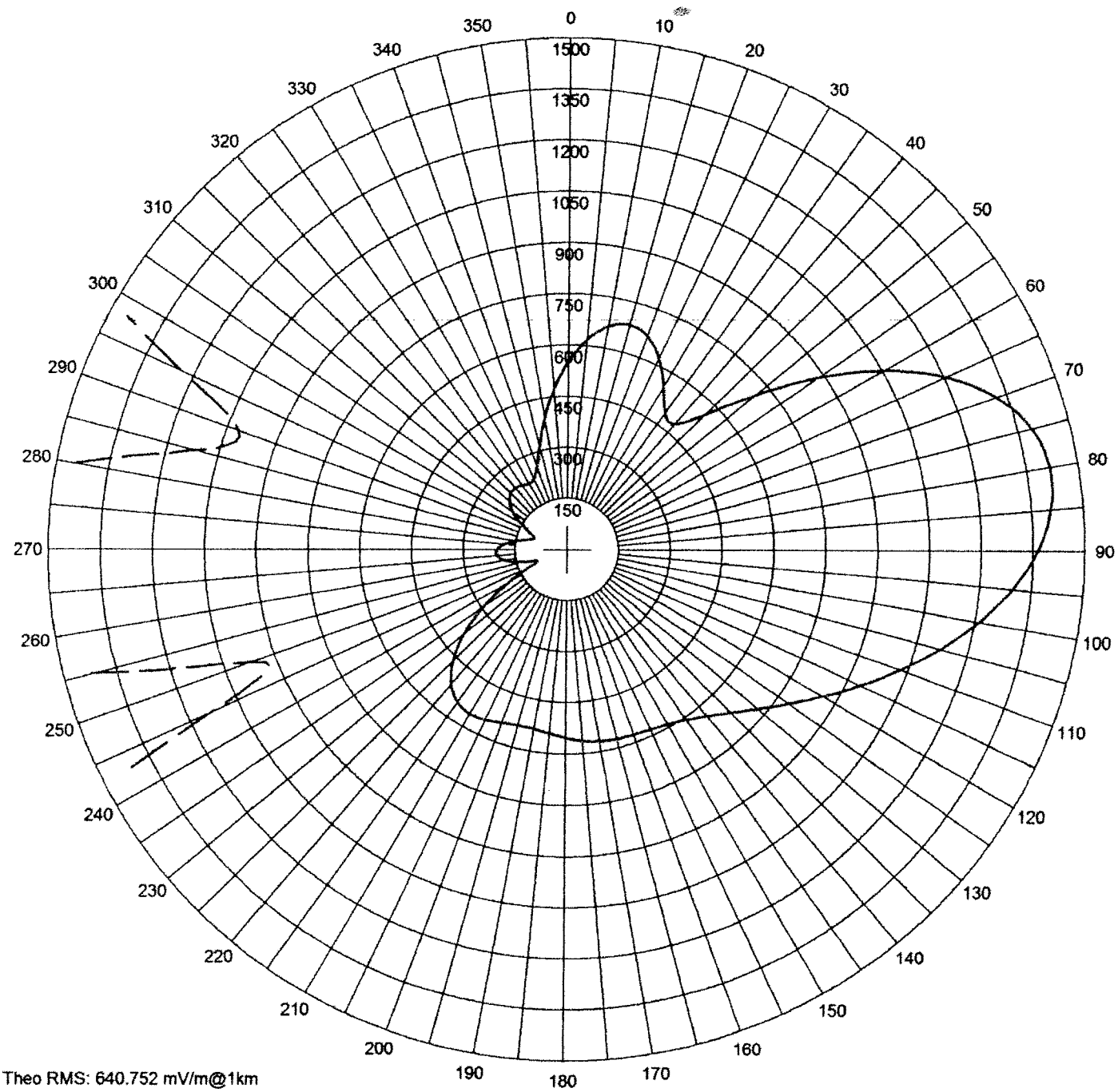
Proposed Night:

Tower	Field Ratio	Phase	Spacing	Orientation	Height	Ref
1	1.000	0.0°	180.0°	5.0°	86.5°	0
2	.820	166.6°	90.0°	5.0°	86.5°	0
3	.520	-44.2°	0.0°	0.0°	86.5°	0

The proposed Night produces the same radiation pattern as licensed. This matches those values in existing Construction Permit # BP-20041013ABG. A Polar Plot of this pattern is attached as Exhibit #2.

Kurt Gorman
Phasetek Inc.
November 9, 2006

AM Directional Pattern



Theo RMS: 640.752 mV/m@1km
Std RMS: 673.199 mV/m@1km
Meas RMS: 0.0 mV/m@1km
Q: 22.361 mV/m@1km

Horizontal Plane Standard Pattern

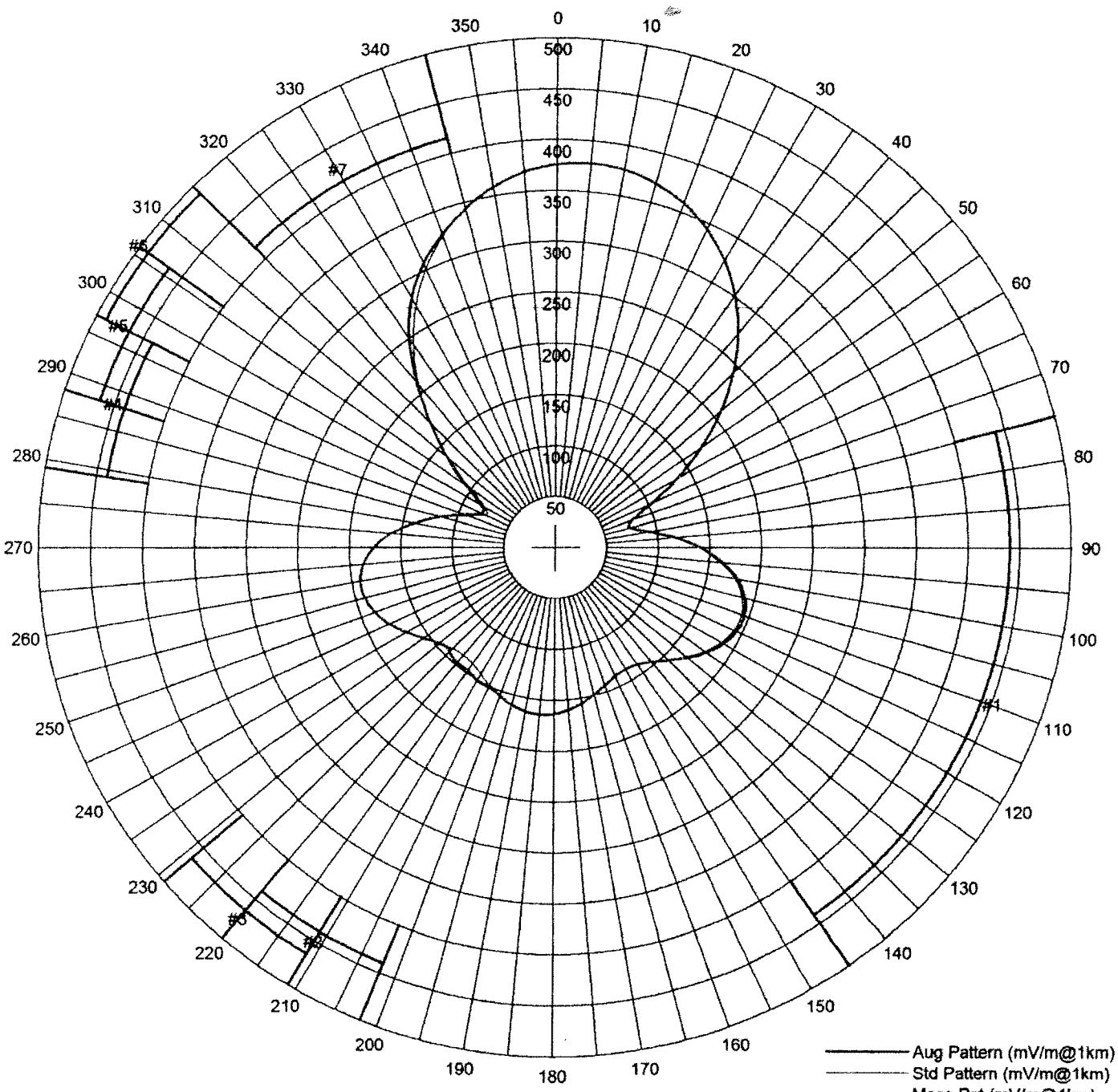
Pattern (mV/m @ 1km)
Meas Pat (mV/m@1km)
Pattern X10
Meas Pat X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	70.0	0	0	0.0	0.0	0.0	0.0
2	0.640	-89.0	209.0	136.1	70.0	0	0	0.0	0.0	0.0	0.0
3	1.080	145.0	96.0	286.0	70.0	0	0	0.0	0.0	0.0	0.0
4	0.770	60.0	148.5	335.0	70.0	0	0	0.0	0.0	0.0	0.0

Call: WBGX
Freq: 1570 kHz
HARVEY, IL, US
Lat: 41-36-14 N
Lng: 087-40-45 W
Power: 5.0 kW
Theo RMS: 640.75 mV/m @ 1km

EXHIBIT #1

AM Directional Pattern



Horizontal Plane Augmented Pattern

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch
1	1.000	0.0	180.0	5.0	86.5	0
2	0.820	166.6	90.0	5.0	86.5	0
3	0.520	-44.2	0.0	0.0	86.5	0

#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)
1	110.00	195.40	70.0
2	211.00	150.20	18.0
3	220.00	147.90	18.0
4	288.00	102.40	18.0
5	297.00	78.50	18.0
6	306.00	113.80	18.0
7	330.00	282.20	30.0

Call: WBGX
Freq: 1570 kHz
HARVEY, IL, US
Lat: 41-36-14 N
Lng: 087-40-45 W
Power: 0.5 kW
Theo RMS: 199.10 mV/m @ 1km
# of Augmentations: 7

EXHIBIT #2

PHASETEK INC.

WBGX
FIGURE E1

Soil conductivities from FCC Figure M3

Title: WBGX daytime

Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Az (deg)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)
0.0	15.0/14.2 8.0/162.1	8.0/211.8 2.0/794.5	15.0/77.5	8.0/145.4	4.0/137.4	8.0/57.1	4.0/9.3
5.0	15.0/14.1	8.0/506.3	4.0/26.0	8.0/253.7	2.0/809.2		
10.0	15.0/13.9	8.0/734.8	2.0/860.7				
15.0	15.0/13.5	8.0/714.6	2.0/204.6	6.0/676.6			
20.0	15.0/13.2	8.0/339.3	2.0/15.3	8.0/315.4	2.0/259.7	6.0/666.5	
25.0	15.0/13.0	8.0/223.0	2.0/146.7	8.0/214.0	2.0/359.2	6.0/653.4	
30.0	15.0/13.0 6.0/685.7	8.0/204.6	2.0/165.8	8.0/198.5	2.0/19.8	10.0/5.0	2.0/317.0
35.0	15.0/13.0	8.0/191.3	2.0/84.0	8.0/284.7	10.0/52.2	2.0/334.7	6.0/649.5
40.0	15.0/12.6 4.0/4.8	8.0/176.6 10.0/34.1	2.0/55.1 2.0/369.5	8.0/332.3 6.0/574.1	10.0/35.2	4.0/8.3	10.0/6.8
45.0	15.0/12.2 4.0/9.8	8.0/160.4 10.0/32.4	2.0/50.0 2.0/908.0	8.0/349.9	10.0/59.4	4.0/27.0	10.0/0.2
50.0	15.0/11.9 2.0/881.2	8.0/143.2	2.0/49.7	8.0/355.4	10.0/73.8	4.0/9.2	10.0/84.9
55.0	15.0/11.8 4.0/23.5	8.0/125.9 10.0/81.0	2.0/68.0 1.0/215.6	8.0/214.3 2.0/664.5	15.0/58.3	8.0/56.1	10.0/90.5
60.0	15.0/11.1 6.0/65.4 4.0/123.4	8.0/107.7 4.0/62.3 5000.0/43.4	2.0/101.9 10.0/27.7 4.0/49.9	8.0/187.2 4.0/32.6 2.0/19.4	15.0/68.2 1.0/204.5	8.0/38.3 4.0/86.6	10.0/39.5 2.0/340.4
65.0	15.0/9.2 6.0/102.2 6.0/79.8	8.0/96.3 4.0/86.2 4.0/127.3	2.0/135.5 6.0/118.3 1.0/129.5	8.0/159.4 4.0/191.5	15.0/62.9 10.0/147.6	8.0/29.0 4.0/20.0	10.0/43.2 10.0/71.5
70.0	15.0/7.9 4.0/71.2 15.0/3.3 2.0/44.9	8.0/86.2 10.0/26.6 4.0/5.5 1.0/8.8	2.0/160.7 6.0/8.1 15.0/43.0	8.0/143.3 15.0/166.0 4.0/242.2	15.0/58.2 4.0/34.4 2.0/78.9	20.0/91.8 15.0/5.7 0.5/112.0	6.0/47.5 10.0/7.2 1.0/156.0
75.0	15.0/6.9 4.0/58.0 5000.0/3.6 2.0/0.9	8.0/72.9 20.0/99.2 2.0/0.8 5000.0/84.7	2.0/138.3 8.0/194.3 5000.0/7.4	4.0/86.8 4.0/219.1 2.0/5.4	8.0/96.2 2.0/114.7 5000.0/2.8	15.0/10.9 1.0/106.1 2.0/8.8	20.0/158.7 2.0/115.1 5000.0/17.6
80.0	15.0/6.2 8.0/74.1	8.0/71.8 4.0/488.5	2.0/119.5 1.0/154.6	4.0/89.3 2.0/22.0	8.0/96.0 5000.0/217.5	20.0/106.4	10.0/163.4

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Soil conductivities from FCC Figure M3

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Az (deg)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)
85.0	15.0/5.7	8.0/88.2	2.0/89.9	4.0/71.0	8.0/129.4	10.0/99.7	8.0/101.3
	4.0/599.3	1.0/33.0	2.0/134.9	5000.0/5.6	2.0/6.1	5000.0/4.6	2.0/36.6
	5000.0/8.3	2.0/39.1	5000.0/156.7				
90.0	15.0/5.3	8.0/118.0	2.0/51.4	8.0/171.4	15.0/39.9	8.0/264.6	2.0/289.0
	4.0/74.0	2.0/105.6	4.0/49.4	5000.0/15.3	4.0/9.1	5000.0/0.8	4.0/0.9
	0.5/68.2	5000.0/346.4					
95.0	15.0/5.0	8.0/333.1	15.0/70.0	8.0/221.9	4.0/45.8	2.0/122.0	4.0/44.7
	2.0/100.5	4.0/210.7	5000.0/455.7				
100.0	15.0/4.7	8.0/336.5	15.0/66.9	8.0/180.6	4.0/252.7	2.0/63.3	4.0/108.1
	40.0/1.6	4.0/7.0	40.0/1.8	4.0/24.0	5000.0/8.4	4.0/81.8	5000.0/472.0
105.0	15.0/4.5	8.0/335.8	15.0/75.5	8.0/140.6	4.0/263.9	2.0/133.9	4.0/39.4
	40.0/20.6	4.0/7.2	40.0/5.9	4.0/51.8	2.0/51.9	5000.0/478.1	
110.0	15.0/4.4	8.0/207.8	15.0/198.9	8.0/119.1	4.0/71.2	2.0/69.0	4.0/95.7
	2.0/190.6	4.0/72.7	5000.0/73.2	2.0/21.9	5000.0/484.7		
115.0	15.0/4.3	8.0/196.6	15.0/174.0	8.0/132.4	2.0/546.7	5000.0/9.1	2.0/1.2
	5000.0/7.4	2.0/5.5	4.0/22.9	5000.0/15.8	4.0/23.7	5000.0/469.9	
120.0	15.0/4.2	8.0/189.5	15.0/126.7	8.0/158.7	2.0/637.3	4.0/1.8	5000.0/4.2
	4.0/28.7	5000.0/7.6	4.0/2.4	5000.0/6.2	4.0/31.6	5000.0/6.6	4.0/25.2
	5000.0/378.6						
125.0	15.0/4.2	8.0/184.7	15.0/89.6	8.0/172.6	2.0/415.5	4.0/98.6	2.0/160.6
	4.0/78.4	5000.0/4.3	4.0/26.2	5000.0/374.6			
130.0	15.0/4.2	8.0/182.1	15.0/67.9	8.0/205.6	2.0/443.7	4.0/120.9	2.0/80.9
	4.0/86.5	5000.0/417.6					
135.0	15.0/4.2	8.0/180.9	15.0/51.6	8.0/251.4	2.0/211.6	4.0/57.6	2.0/146.2
	4.0/79.5	2.0/106.0	4.0/89.8	5000.0/430.6			
140.0	15.0/4.3	8.0/181.1	15.0/39.4	8.0/306.3	2.0/145.8	4.0/71.7	2.0/177.2
	4.0/62.0	2.0/76.1	4.0/135.7	5000.0/409.9			
145.0	15.0/4.4	8.0/182.9	15.0/27.2	8.0/349.4	2.0/107.5	4.0/74.0	2.0/179.8
	4.0/72.9	2.0/48.9	4.0/159.7	5000.0/402.6			
150.0	15.0/4.5	8.0/445.9	4.0/81.0	8.0/25.5	2.0/340.1	4.0/122.9	2.0/63.4
	4.0/123.1	8.0/12.3	5000.0/390.7				
155.0	15.0/4.7	8.0/409.7	4.0/158.1	2.0/328.5	4.0/425.6	8.0/33.5	5000.0/9.4
	8.0/25.0	5000.0/214.8					
160.0	15.0/5.0	8.0/372.9	4.0/289.2	2.0/85.1	4.0/58.8	2.0/80.2	1.0/71.1
	4.0/240.7	2.0/165.3	4.0/135.3	2.0/105.7			

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Soil conductivities from FCC Figure M3

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Az (deg)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)
165.0	15.0/5.3 2.0/95.7	8.0/385.1 5000.0/277.4	4.0/298.8	2.0/85.6	4.0/70.1	2.0/162.3	4.0/229.0
170.0	15.0/5.7 1.0/99.9	8.0/438.6 5000.0/265.4	4.0/281.9	2.0/112.9	4.0/52.9	2.0/100.3	4.0/251.8
175.0	15.0/6.2 5000.0/8.8	8.0/489.1 1.0/3.1	4.0/286.0 5000.0/353.6	2.0/109.4	4.0/143.8	8.0/138.4	1.0/71.0
180.0	15.0/6.8	8.0/526.5	4.0/344.9	2.0/207.0	8.0/64.2	1.0/96.9	5000.0/363.0
185.0	15.0/7.8	8.0/541.6	4.0/273.0	2.0/430.7	5000.0/356.3		
190.0	15.0/9.3 5000.0/6.2	8.0/510.7 2.0/7.0	4.0/259.9 5000.0/14.6	8.0/69.4 15.0/51.0	2.0/175.6 5000.0/246.6	4.0/253.7	15.0/5.3
195.0	15.0/12.4	8.0/545.8	4.0/14.6	8.0/644.7	4.0/76.8	15.0/102.7	5000.0/212.3
200.0	15.0/18.6	8.0/1325.2	15.0/39.3	30.0/22.7	5000.0/203.6		
205.0	15.0/372.7	8.0/491.5	4.0/330.5	15.0/93.9	8.0/100.7	30.0/32.9	5000.0/187.1
210.0	15.0/453.9 30.0/71.9	8.0/374.8 15.0/21.6	4.0/236.7 30.0/19.8	15.0/93.9 5000.0/17.1	8.0/264.0	30.0/51.7	5000.0/4.0
215.0	15.0/450.3	8.0/389.8	4.0/253.8	8.0/178.7	4.0/196.6	15.0/119.9	30.0/20.3
220.0	15.0/435.2 30.0/130.3	8.0/422.5 8.0/73.5	15.0/180.2	4.0/113.6	8.0/13.4	30.0/148.4	15.0/92.1
225.0	15.0/357.5	8.0/571.7	15.0/247.3	30.0/71.7	15.0/233.6	8.0/127.6	
230.0	15.0/273.5	8.0/630.8	15.0/202.9	30.0/183.1	15.0/193.6	8.0/125.5	
235.0	15.0/156.6 15.0/50.0	8.0/392.5 30.0/47.9	15.0/338.0 15.0/92.8	30.0/38.7 30.0/213.1	8.0/120.5 15.0/98.4	15.0/51.9	30.0/9.0
240.0	15.0/92.9 30.0/108.1	8.0/227.2 15.0/169.7	15.0/37.2	8.0/50.4	15.0/397.0	30.0/335.0	15.0/191.8
245.0	15.0/75.8	8.0/220.1	15.0/467.8	30.0/386.9	15.0/72.7	30.0/310.8	15.0/75.2
250.0	15.0/64.4	8.0/231.9	15.0/430.8	30.0/641.8	15.0/240.4		
255.0	15.0/56.4	8.0/250.3	15.0/373.6	30.0/472.7	15.0/463.4		
260.0	15.0/50.5 2.0/57.3	8.0/281.5 4.0/17.9	15.0/304.3	30.0/69.7	15.0/235.2	30.0/204.8	15.0/388.0
265.0	15.0/45.1 8.0/66.5	8.0/312.6 2.0/14.7	15.0/251.6	30.0/72.0	15.0/237.3	30.0/201.9	15.0/407.7

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Soil conductivities from FCC Figure M3

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Az (deg)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)	Cond/length (mS/m)/(km)
270.0	15.0/40.6 8.0/247.7	8.0/321.2 2.0/42.6	15.0/371.0	30.0/125.1	15.0/42.2	30.0/203.8	15.0/215.2
275.0	15.0/37.2 2.0/91.4	8.0/322.0	15.0/535.1	30.0/131.2	4.0/202.7	8.0/253.6	15.0/36.2
280.0	15.0/34.5	8.0/321.2	15.0/519.6	8.0/89.2	4.0/277.0	8.0/236.2	15.0/131.6
285.0	15.0/32.5 8.0/79.1	8.0/355.4 15.0/196.7	15.0/355.4 8.0/25.9	30.0/175.6	15.0/92.4	8.0/255.0	15.0/41.4
290.0	15.0/30.1 8.0/275.7	8.0/392.6	15.0/128.7	30.0/123.5	15.0/98.5	30.0/211.5	15.0/348.7
295.0	15.0/28.0 30.0/197.7	8.0/236.4 15.0/72.1	4.0/72.7 8.0/446.2	8.0/99.6	15.0/116.6	30.0/151.5	15.0/188.4
300.0	15.0/26.4 30.0/203.1	8.0/227.1 8.0/478.8	4.0/113.5	8.0/89.4	15.0/135.1	8.0/106.9	15.0/229.0
305.0	15.0/25.1 4.0/19.7	8.0/224.6 15.0/248.7	4.0/137.0 30.0/367.1	8.0/93.4 8.0/189.4	15.0/128.3 30.0/18.2	4.0/24.0 15.0/60.9	8.0/73.0
310.0	15.0/22.8	8.0/227.8	4.0/161.1	8.0/110.3	4.0/324.5	30.0/639.0	40.0/140.4
315.0	15.0/20.9 30.0/265.4	8.0/235.7 40.0/322.2	4.0/187.0	8.0/55.8	4.0/412.3	30.0/77.4	15.0/32.7
320.0	15.0/19.5 40.0/344.9	8.0/243.6 20.0/110.9	4.0/676.4	8.0/41.6	30.0/50.2	15.0/74.1	30.0/48.1
325.0	15.0/18.4	8.0/251.4	4.0/350.1	8.0/436.2	40.0/229.8	20.0/323.4	
330.0	15.0/17.6 20.0/166.3	8.0/261.4 10.0/40.5	4.0/334.6 20.0/351.6	8.0/319.9	20.0/68.4	8.0/34.6	2.0/14.3
335.0	15.0/16.7	8.0/274.8	4.0/323.5	8.0/264.7	2.0/729.7		
340.0	15.0/15.9	8.0/58.6	15.0/31.9	8.0/212.0	4.0/276.8	8.0/180.6	2.0/833.4
345.0	15.0/15.3	8.0/56.1	15.0/59.9	8.0/216.7	4.0/253.0	8.0/155.0	2.0/853.4
350.0	15.0/14.8 8.0/121.8	8.0/56.8 2.0/882.2	15.0/106.1	8.0/25.7	15.0/94.1	8.0/77.6	4.0/230.3
355.0	15.0/14.4 8.0/0.4	8.0/81.9 2.0/830.2	15.0/219.5	8.0/90.4	4.0/227.5	8.0/123.0	2.0/22.0

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
KDYN OZARK	Lic	OZARK COMMUNICATIONS, INC.	AR	BL-	1540	D/B	0.500	296.1	N 35° 29' 16.0" W 93° 48' 43.0"	220.1 36.2	863.6
KDYN OZARK	Prm	OZARK COMMUNICATIONS, INC.	AR	PLAN-	1540		0.001	296.1	N 35° 29' 16.0" W 93° 48' 43.0"	220.1 36.2	863.6
KXEL WATERLOO	CP	KXEL BROADCASTING COMPANY, INC.	IA	BP-20030714AFT	1540	A/A	50.000 50.000	354.1 2735.9	N 42° 10' 47.0" W 92° 18' 38.0"	281.0 97.9	388.6
KXEL WATERLOO	CP	KXEL BROADCASTING COMPANY, INC.	IA	BP-20030714AFT	1540	A/A	50.000 50.000	354.1 2735.9	N 42° 10' 48.0" W 92° 18' 38.0"	281.0 97.9	388.6
KXEL WATERLOO	Lic	KXEL BROADCASTING COMPANY, INC.	IA	BL-	1540	A/A	50.000 50.000	354.1 2735.9	N 42° 10' 46.0" W 92° 18' 15.0"	281.0 97.9	388.0
KBOA KENNETT	Lic	POLLACK BROADCASTING CO.	MO	BL-	1540	D/B	1.000	297.7	N 36° 15' 11.0" W 90° 02' 56.0"	199.8 18.3	629.1
KBOA KENNETT	Prm	POLLACK BROADCASTING CO.	MO	PLAN-	1540		0.001	297.7	N 36° 15' 11.0" W 90° 02' 56.0"	199.8 18.3	629.1
WSMI LITCHFIELD	Lic	TALLEY BROADCASTING CORPORATION	IL	BL-19851205AC	1540	D/B	1.000	323.5	N 39° 10' 21.0" W 89° 34' 14.0"	211.3 30.0	314.2
WSMI LITCHFIELD	Prm	TALLEY BROADCASTING CORPORATION	IL	PLAN-	1540		0.001	323.5	N 39° 10' 21.0" W 89° 34' 14.0"	211.3 30.0	314.2
WTKM HARTFORD	Lic	KETTLE MORAINE B/TING COMPANY, INC.	WI	BL-	1540	D/B	0.500	282.0	N 43° 16' 48.0" W 88° 23' 02.0"	343.0 162.5	195.1
WBNL BOONVILLE	Lic	TURPEN COMMUNICATIONS, LLC	IN	BL-	1540	D/B	0.250	318.7	N 38° 03' 58.0" W 87° 16' 27.0"	174.8 355.1	394.8
WBNL BOONVILLE	Prm	TURPEN COMMUNICATIONS, LLC	IN	PLAN-	1540		0.001	318.7	N 38° 03' 58.0" W 87° 16' 27.0"	174.8 355.1	394.8
WLOI LA PORTE	Lic	LAPORTE COUNTY BROADCASTING CO., INC.	IN	BL-	1540	D/B	0.250	317.0	N 41° 38' 02.0" W 86° 45' 35.0"	87.2 267.8	76.5
WMCB MARTINSVILLE	Lic	MID-AMERICA RADIO GROUP, INC.	IN	BL-19800513AH	1540	D/B	0.500	312.2	N 39° 24' 31.0" W 86° 25' 10.0"	156.0 336.8	266.3
WBRY WOODBURY	Lic	DASAN COMMUNICATIONS CORP.	TN	BL-	1540	D/B	0.500	302.6	N 35° 49' 53.0" W 86° 06' 42.0"	167.5 348.5	656.0
WBRY WOODBURY	Prm	DASAN COMMUNICATIONS CORP.	TN	PLAN-	1540		0.002	302.6	N 35° 49' 53.0" W 86° 06' 42.0"	167.5 348.5	656.0
WAKY GREENSBURG	Lic	GREEN COUNTY CBC, INC.	KY	BL-19800220AF	1540	D/B	1.000	329.9	N 37° 15' 34.0" W 85° 30' 57.0"	158.3 339.6	517.5

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

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Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
WAKY GREENSBURG	Prm	GREEN COUNTY CBC, INC.	KY	PLAN-	1540		0.001	329.9	N 37° 15' 34.0" W 85° 30' 57.0"	158.3 339.6	517.5
WADM DECATUR	Lic	WELLS COUNTY RADIO CORPORATION	IN	BL-19860619AB	1540	D/B	0.250	282.0	N 40° 49' 14.0" W 84° 55' 12.0"	109.8 291.6	246.6
WBIN BENTON	CP	JOHN A. SINES AND L. JANE SINES, JTWROS	TN	BMP-20030506AAY	1540	D/B	1.000 0.004	282.0 282.0	N 35° 10' 50.0" W 84° 38' 34.0"	158.7 340.6	761.4
WBIN BENTON	CP	JOHN A. SINES AND L. JANE SINES, JTWROS	TN	BP-20020823AAZ	1540	D/B	1.000	282.0	N 35° 10' 50.0" W 84° 38' 34.0"	158.7 340.6	761.4
WBIN BENTON	Lic	JOHN A. SINES AND L. JANE SINES, JTWROS	TN	BL-19791106AI	1540	D/B	1.000 0.002	282.0 282.0	N 35° 11' 15.0" W 84° 38' 13.0"	158.7 340.5	760.9
KTGG SPRING ARBOR	Lic	SPRING ARBOR UNIVERSITY	MI	BL-19920127AA	1540	D/B	0.450	400.7	N 42° 09' 13.0" W 84° 32' 58.0"	75.7 257.8	266.2
WJJT JELLICO	Lic	DOUGLAS BROADCASTING CORPORATION	TN	BL-	1540	D/B	1.000	313.8	N 36° 34' 13.0" W 84° 08' 43.0"	150.3 332.5	637.2
WJJT JELLICO	Prm	DOUGLAS BROADCASTING CORPORATION	TN	PLAN-	1540		0.001	313.8	N 36° 34' 13.0" W 84° 08' 43.0"	150.3 332.5	637.2
WBCO BUCYRUS	Lic	FRANKLIN COMMUNICATIONS, INC.	OH	BL-12383	1540	D/B	0.500	203.4	N 40° 45' 47.0" W 82° 56' 05.0"	101.7 284.8	407.8
WTBI PICKENS	Lic	TABERNACLE CHRISTIAN SCHOOLS	SC	BL-19800429AD	1540	D/B	10.000	282.0	N 34° 51' 37.0" W 82° 43' 25.0"	148.4 331.5	865.3
WABQ CLEVELAND	Lic	D & E COMMUNICATIONS OF OHIO, INC.	OH	BL-19911129AA	1540	D/B	1.000	282.0	N 41° 30' 10.0" W 81° 37' 57.0"	89.3 273.3	503.1
WBTC UHRICHSVILLE	App	TUSEARAWAS BROADCASTING COMPANY	OH	BP-20040902ABB	1540	D/B	0.250 0.005	305.8 305.8	N 40° 25' 26.0" W 81° 21' 47.0"	101.8 286.0	545.7
WBTC UHRICHSVILLE	Lic	TUSEARAWAS BROADCASTING COMPANY	OH	BL-	1540	D/B	0.250	305.8	N 40° 25' 26.0" W 81° 21' 47.0"	101.8 286.0	545.7
WOGR CHARLOTTE	Lic	VICTORY CHRISTIAN CENTER	NC	BL-19980714AB	1540	D/B	2.500	487.1	N 35° 16' 26.0" W 80° 51' 40.0"	137.7 321.9	920.1
WRTK NILES	Lic	D & E COMMUNICATIONS OF OHIO, INC.	OH	BL-10380	1540	D/B	0.500	204.4	N 41° 07' 56.0" W 80° 45' 40.0"	92.9 277.5	579.5
CHIN TORONTO			ON		1540	B/B	50.000 30.000	2178.3 1683.7	N 43° 36' 55.0" W 79° 22' 50.0"	69.0 254.6	714.5
WYNC YANCEYVILLE	Lic	SEMORA BROADCASTING, INC.	NC	BL-19820909AQ	1540	D/B	2.500	305.8	N 36° 24' 52.0" W 79° 20' 06.0"	126.0 311.2	922.6

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

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Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
WECZ PUNXSUTAWNEY	Lic	RENDA RADIO, INC.	PA	BL-	1540	D/B	5.000	378.2	N 40° 57' 36.0" W 79° 00' 08.0"	92.8 278.5	728.2
KLKC PARSONS	Lic	ACME BROADCASTING, LLC	KS	BL-	1540	D/B	0.250	342.8	N 37° 20' 35.0" W 95° 13' 55.0"	236.3 51.5	802.3
KLKC PARSONS	Prm	ACME BROADCASTING, LLC	KS	PLAN-	1540		0.001	342.8	N 37° 20' 35.0" W 95° 13' 55.0"	236.3 51.5	802.3
KYAL SAPULPA	Lic	KXOJ, INC.	OK	BL-19871215AB	1550	D/B	2.500 0.040	484.6 65.0	N 36° 01' 08.0" W 96° 05' 55.0"	232.3 47.0	957.1
KSFT ST. JOSEPH	Lic	EAGLE COMMUNICATIONS, INC.	MO	BL-	1550	B/B	5.000 5.000	307.4 721.0	N 39° 42' 23.0" W 94° 44' 36.0"	252.8 68.2	631.8
WURP RESERVE TOWNSHIP	App	URBAN RADIO OF PENNSYLVANIA, L.L.C.	PA	BMJP-20040129ALL	1550	D/B	4.000 0.032	717.6 64.2	N 40° 29' 27.0" W 79° 58' 55.0"	98.3 283.4	656.9
WKBA VINTON	Lic	TINKER CREEK BROADCASTERS, INC.	VA	BL-	1550	D/B	10.000	954.3	N 37° 17' 24.0" W 79° 55' 22.0"	123.2 308.2	820.1
KIWA SHELDON	CP	SHELDON BROADCASTING CO., INC	IA	BP-20030212AAD	1550	D/B	0.283 0.006	403.9 403.9	N 43° 10' 53.0" W 95° 51' 56.0"	287.4 101.8	694.4
KIWA SHELDON	Lic	SHELDON BROADCASTING CO., INC	IA	BL-20021231AHF	1550	D/B	0.283 0.006	403.9 403.9	N 43° 10' 53.0" W 95° 51' 56.0"	287.4 101.8	694.4
WURP BRADDOCK	Lic	URBAN RADIO OF PENNSYLVANIA, L.L.C.	PA	BL-19911105AB	1550	D/B	1.000 0.004	368.5 368.5	N 40° 24' 47.0" W 79° 51' 13.0"	98.8 284.0	669.5
WBFJ WINSTON-SALEM	Lic	WORD OF LIFE BROADCASTING, INC.	NC	BL-19920506AA	1550	D/B	1.000	302.6	N 36° 06' 33.0" W 80° 14' 44.0"	131.1 315.8	886.7
WBCV BRISTOL	Lic	SUNSHINE BROADCASTERS, INC.	TN	BL-19840123AB	1550	D/B	5.000	305.8	N 36° 33' 58.0" W 82° 09' 30.0"	137.8 321.3	735.0
WBCV BRISTOL	Prm	SUNSHINE BROADCASTERS, INC.	TN	PLAN-	1550		0.006	305.8	N 36° 33' 58.0" W 82° 09' 30.0"	137.8 321.3	735.0
WXOL WESTERVILLE	CP	THE FIFTEEN FIFTY CORPORATION	OH	BMJP-20001023AAA	1550	D/B	4.000 0.190	689.7 135.5	N 40° 14' 47.0" W 82° 55' 59.0"	109.2 292.3	426.2
CBE WINDSOR			ON		1550	A/A	10.000 10.000	1199.0 1199.0	N 42° 12' 56.0" W 82° 55' 15.0"	78.6 261.8	399.5
WXOL DELAWARE	Lic	THE FIFTEEN FIFTY CORPORATION	OH	BL-	1550	D/B	0.500 0.029	202.8 48.8	N 40° 17' 56.0" W 83° 02' 46.0"	108.9 292.0	415.1
WIRV IRVINE	Lic	KENTUCKY RIVER BROADCASTING CO., INC	KY	BL-19901120AC	1550	D/B	1.000 0.005	305.8 305.8	N 37° 42' 57.0" W 83° 58' 29.0"	142.5 324.9	536.0

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

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WMDH	Lic	CITADEL BROADCASTING COMPANY			1550	B/B	0.250	148.1	N 39° 55' 59.0"	133.4	266.6
NEW CASTLE			IN	BL-19990726DD			0.250	141.6	W 85° 24' 26.0"	314.9	
WOCC	Lic	MC COMMUNICATIONS, INC.			1550	D/B	0.250	283.2	N 38° 11' 26.0"	160.3	401.7
CORYDON			IN	BL-			0.006	283.2	W 86° 08' 00.0"	341.3	
WSHN	Lic	NOORDYK BROADCASTING, INC.			1550	D/B	1.000	302.6	N 43° 28' 15.0"	33.9	251.7
FREMONT			MI	BL-19810303AP					W 85° 56' 25.0"	215.1	
WCVL	Lic	C.V.L. BROADCASTING, INC.			1550	B/B	0.250	302.6	N 40° 03' 54.0"	159.6	182.2
CRAWFORDSVILLE			IN	BL-			0.250	140.8	W 86° 56' 00.0"	340.1	
WNDI	Lic	J T M BROADCASTING CORPORATION			1550	D/B	0.250	283.2	N 39° 04' 32.0"	175.1	282.1
SULLIVAN			IN	BL-					W 87° 23' 57.0"	355.3	
WNDI	Prm	J T M BROADCASTING CORPORATION			1550				N 39° 04' 32.0"	175.1	282.1
SULLIVAN			IN	PLAN-			0.007	283.2	W 87° 23' 57.0"	355.3	
WCTZ	Lic	WINSTON COMMUNICATIONS, INC.			1550	D/B	2.500	282.0	N 36° 32' 12.0"	177.2	564.0
CLARKSVILLE			TN	BL-19841126AV			0.250	141.0	W 87° 22' 24.0"	357.4	
WCTZ	Lic	WINSTON COMMUNICATIONS, INC.			1550				N 36° 32' 12.0"	177.2	564.0
CLARKSVILLE			TN	BL-19990629DC			0.010	282.0	W 87° 22' 24.0"	357.4	
WZRK	Lic	STARBOARD BROADCASTING, INC.			1550	D/B	1.000	288.1	N 42° 35' 39.0"	332.2	124.7
LAKE GENEVA			WI	BL-19981008AA			0.001	9.1	W 88° 23' 24.0"	151.7	
WKJQ	Lic	CLENNEY BROADCASTING CORPORATION			1550	D/B	1.000	305.8	N 35° 39' 26.0"	183.7	662.4
PARSONS			TN	BL-19810526AK					W 88° 09' 07.0"	3.4	
WMSK	Lic	UNION COUNTY BROADCASTING CO., INC.			1550	D/B	0.150	365.2	N 37° 40' 00.0"	182.9	438.3
MORGANFIELD			KY	BL-19881103AD			0.006	365.2	W 87° 55' 40.0"	2.7	
KAPE	Lic	WITHERS BROADCASTING COMPANY OF MISSOURI, LLC			1550	D/B	5.000		630.9N 37° 16' 45.0"	199.'	
507.1											
CAPE GIRARDEAU			MO	BL-			0.048	61.8	W 89° 33' 28.0"	18.0	
WTUX	Lic	MID-WEST MANAGMENT, INC.			1550	D/B	5.000	643.7	N 43° 00' 08.0"	318.5	209.4
MADISON			WI	BL-					W 89° 23' 08.0"	137.4	
WCSJ	Lic	GRUNDY COUNTY BROADCASTERS, INC.			1550	D/B	0.250	284.9	N 41° 20' 29.0"	245.1	68.7
MORRIS			IL	BL-19940118AA			0.006	284.9	W 88° 25' 31.0"	64.6	
NEW	App	BRET D. HUGGINS			1550	B/B	2.000	443.1	N 35° 06' 36.0"	194.8	744.4
GERMANTOWN			TN	BNP-20040130AHM			0.250	149.8	W 89° 45' 46.0"	13.5	
NEW	App	EDUCATIONAL MEDIA FOUNDATION			1550	B/B	1.000	408.5	N 34° 53' 44.0"	193.9	766.2
BYHALIA			MS	BNP-20040130ASR			0.140	153.1	W 89° 41' 38.0"	12.7	

WBGX
FIGURE E1
CONTINUED

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WJIL / JACKSONVILLE	Lic	MORGAN COUNTY BROADCASTING CO., INC.	IL	BL-	1550	D/B	1.000 / 0.010	289.7 / 29.0	N 39° 43' 20.0" / W 90° 11' 43.0"	226.2 / 44.6	298.0
WEVR / RIVER FALLS	Lic	HANTEN BROADCASTING CO. INC.	WI	BL-19981112AC	1550	D/B	0.920 / 0.004	383.0 / 383.0	N 44° 53' 19.0" / W 92° 39' 02.0"	313.9 / 130.5	543.4
KLFJ / SPRINGFIELD	Lic	127, INC.	MO	BL-19841109AB	1550	D/B	5.000 / 0.028	301.0 / 301.0	N 37° 11' 45.0" / W 93° 19' 07.0"	226.5 / 42.9	688.8
KBEW / BLUE EARTH	Lic	KBEW, INC.	MN	BL-19930525AB	1560	D/B	1.000	289.7	N 43° 38' 44.0" / W 94° 05' 33.0"	295.5 / 111.2	571.4
NEW / SUPERIOR	App	KERMIT A. CARLSON	WI	BNP-20040128AAI	1560	B/B	1.000 / 0.250	290.7 / 145.4	N 46° 36' 59.0" / W 92° 05' 02.0"	329.3 / 146.2	658.7
NEW / ARNOLD	App	RAMS, II	MN	BNP-20040130AZO	1560	B/B	50.000 / 5.000	305.8 / 658.1	N 46° 38' 00.0" / W 92° 05' 00.0"	329.4 / 146.3	660.2
KLTI / MACON	Lic	CHIRILLO ELECTRONICS, INC.	MO	BL-19830404AD	1560	D/B	1.000	288.1	N 39° 42' 34.0" / W 92° 27' 50.0"	244.0 / 60.9	455.1
KTUI / SULLIVAN	Lic	FIDELITY BROADCASTING, INC.	MO	BL-	1560	D/B	1.000	299.3	N 38° 11' 42.0" / W 91° 11' 12.0"	219.4 / 37.2	482.8
WBYS / CANTON	Lic	WPW BROADCASTING, INC.	IL	BL-19961003AA	1560	D/B	0.250	346.0	N 40° 32' 41.0" / W 90° 01' 16.0"	239.8 / 58.3	228.9
WSQR / SYCAMORE	Lic	DEKALB COUNTY BROADCASTERS, INC.	IL	BL-19960313AB	1560	D/B	0.198 / 0.018	317.0 / 317.0	N 42° 00' 24.0" / W 88° 40' 40.0"	298.7 / 118.1	94.1
WBOL / BOLIVAR	Lic	SHAW'S BROADCASTING CO.	TN	BL-	1560	D/B	0.250	307.4	N 35° 15' 30.0" / W 88° 58' 50.0"	189.5 / 8.7	714.5
NEW / PLOVER	App	RAMS, IV	WI	BNP-20040130BFO	1560	B/B	0.950 / 0.520	305.8 / 212.6	N 44° 26' 40.0" / W 89° 31' 35.0"	335.2 / 153.9	349.7
WGLB / ELM GROVE	Lic	JOEL J. KINLOW	WI	BL-20010927ABV	1560	B/B	0.185 / 0.250	142.5 / 152.3	N 43° 00' 32.0" / W 88° 02' 06.0"	349.5 / 169.3	158.9
WPAD / PADUCAH	Lic	BRISTOL BROADCASTING COMPANY, INC.	KY	BL-19850328AB	1560	B/B	10.000 / 1.000	901.2 / 292.9	N 37° 03' 08.0" / W 88° 36' 03.0"	189.2 / 8.6	512.2
WRIN / RENSSELAER	Lic	BROTHERS BROADCASTING CORPORATION	IN	BL-	1560	D/B	1.000	282.0	N 40° 57' 41.0" / W 87° 09' 07.0"	148.2 / 328.5	83.9
WMRO / GALLATIN	Lic	CLASSIC BROADCASTING, INC.	TN	BL-20000607ACJ	1560	D/B	1.000 / 0.003	302.7 / 302.7	N 36° 24' 03.0" / W 86° 27' 03.0"	169.2 / 350.0	588.1
WSEZ / PAOLI	Lic	INDIANA PATOKA DEVELOPMENT CORPORATION	IN	BL-19790928AE	1560	D/B	0.250	284.9	N 38° 32' 25.0" / W 86° 28' 42.0"	162.9 / 343.7	355.6

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

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WKDO / LIBERTY	Lic	CARLOS WESLEY	KY	BL-19830304AE	1560	D/B	1.000	305.8	N 37° 18' 22.0" / W 84° 55' 02.0"	152.7 / 334.5	533.3
WNWN / PORTAGE	Lic	MIDWEST COMMUNICATIONS, INC	MI	BL-19860219AE	1560	D/B	4.100	637.0	N 42° 10' 59.0" / W 85° 35' 30.0"	68.9 / 250.3	184.4
WCNW / FAIRFIELD	Lic	VERNON R. BALDWIN, INC.	OH	BL-	1560	D/B	5.000	651.8	N 39° 20' 20.0" / W 84° 31' 30.0"	132.3 / 314.4	366.8
WTOD / TOLEDO	Lic	CUMULUS LICENSING LLC	OH	BL-	1560	D/B	5.000	631.5	N 41° 36' 59.0" / W 83° 37' 22.0"	88.4 / 271.1	337.2
WTOD / NORTHWOOD	App	CUMULUS LICENSING LLC	OH	BMJP-20040130BBS	1560	D/B	1.500	374.8	N 41° 40' 05.0" / W 83° 27' 11.0"	87.4 / 270.2	351.2
WQXY / HAZARD	Lic	BLACK GOLD BROADCASTING	KY	BL-19880310AB	1560	D/B	1.000	306.0	N 37° 16' 27.0" / W 83° 11' 29.0"	139.9 / 322.7	616.4
WTNS / COSHOCTON	Lic	COSHOCTON BROADCASTING CO.	OH	BL-	1560	D/B	1.000	329.9	N 40° 16' 30.0" / W 81° 49' 37.0"	104.8 / 288.6	513.1
WFSP / KINGWOOD	Lic	WFSP, INC.	WV	BL-	1560	D/B	1.000	296.1	N 39° 28' 50.0" / W 79° 43' 11.0"	106.7 / 291.9	712.4
WYZD / DOBSON	Lic	GOSPEL BROADCASTING, INC	NC	BML-20021108ADI	1560	D/B	1.000	299.3	N 36° 23' 36.0" / W 80° 44' 05.0"	131.8 / 316.1	833.5
WSBV / SOUTH BOSTON	Lic	LINDA WALLER-BARTON	VA	BL-19801009AF	1560	D/B	2.500	305.8	N 36° 42' 35.0" / W 78° 52' 28.0"	122.8 / 308.4	933.1
KKUZ / SALLISAW	Lic	TEDDY BEAR COMMUNICATIONS, INC.	OK	BL-	1560	D/B	0.250	284.9	N 35° 26' 34.0" / W 94° 46' 33.0"	224.3 / 39.9	921.4
WMBH / JOPLIN	Lic	PETRACOM OF JOPLIN, L.L.C.	MO	BL-19980817AD	1560	D/B	0.250 / 0.009	438.0 / 438.0	N 37° 04' 10.0" / W 94° 32' 49.0"	231.7 / 47.4	776.0
KLNG / COUNCIL BLUFFS	Lic	WILKINS COMMUNICATIONS NETWORK, INC.	IA	BL-20020410AAU	1560	D/B	10.000	391.1	N 41° 12' 28.0" / W 95° 54' 24.0"	269.1 / 83.6	687.2
KAKK / WALKER	Lic	EDWARD DE LA HUNT	MN	BML-20020405ABM	1570	B/B	1.000 / 0.250	303.7 / 303.7	N 47° 04' 58.0" / W 94° 35' 21.0"	320.3 / 135.5	819.7
WYTI / ROCKY MOUNT	Lic	WYTI, INC.	VA	BL-19961223AB	1570	B/B	2.500 / 0.220	424.9 / 424.9	N 36° 58' 37.0" / W 79° 53' 45.0"	125.0 / 309.9	843.9
KMUR / CATOOSA	App	REUNION BROADCASTING L.L.C.	OK	BMJP-20040127AEN	1570	D/B	0.750	274.5	N 36° 15' 52.0" / W 95° 42' 34.0"	232.1 / 47.0	912.9
KMUR / PRYOR	Lic	REUNION BROADCASTING L.L.C.	OK	BL-	1570	D/B	1.000	323.5	N 36° 18' 04.0" / W 95° 19' 29.0"	230.7 / 45.9	885.1

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
KMUR PRYOR	Prm	REUNION BROADCASTING L.L.C.	OK	PLAN-	1570		0.014	323.5	N 36° 18' 04.0" W 95° 19' 29.0"	230.7 45.9	885.1
WQTW LATROBE	Lic	L. STANLEY WALL	PA	BL-	1570	D/B	1.000	304.2	N 40° 18' 07.0" W 79° 21' 56.0"	99.0 284.4	712.6
WQTW LATROBE	Prm	L. STANLEY WALL	PA	PLAN-	1570		0.224	304.2	N 40° 18' 07.0" W 79° 21' 56.0"	99.0 284.4	712.6
CFOR ORILLIA			ON		1570	B/B	10.000 5.000	322.2 724.0	N 44° 35' 53.0" W 79° 20' 22.0"	61.0 246.7	753.9
CFOR ORILLIA			ON		1570	B/B	10.000	321.9	N 44° 35' 53.0" W 79° 20' 22.0"	61.0 246.7	753.9
CFOR ORILLIA			ON		1570		5.000	724.2	N 44° 35' 53.0" W 79° 20' 22.0"	61.0 246.7	753.9
WNCA SILER CITY	Lic 964.8	CHATHAM BROADCASTING CO., INC. OF SILER CITY	NC	BL-	1570	B/B	1.000 0.282	310.6	310.6N W 79° 29' 18.0"	35° 43' 40.0" 315.1	130.0
WANR WARREN	Lic	BEACON BROADCASTING, INC.	OH	BL-	1570	D/B	0.500 0.116	204.7 98.6	N 41° 12' 22.0" W 80° 50' 29.0"	92.2 276.7	571.8
NEW ELIZABETH	App 602.6	CLEAR CHANNEL BROADCASTING LICENSES, INC.	WV	BNP-20040130AYF	1570	B/B	1.000 0.220	142.0	315.8N W 81° 23' 43.0"	39° 03' 48.0" 299.9	115.9
WTLK TAYLORSVILLE	Lic	APPLE CITY BROADCASTING, INC.	NC	BL-19801212AF	1570	B/B	1.000 0.244	309.0 309.0	N 35° 55' 45.0" W 81° 09' 44.0"	136.1 320.2	846.3
CHLO ST. THOMAS			ON		1570	B/B	10.000 10.000	957.6 967.2	N 42° 42' 22.0" W 81° 06' 20.0"	75.1 259.5	555.3
CHLO ST. THOMAS			ON		1570	B/B	10.000	967.2	N 42° 42' 22.0" W 81° 06' 20.0"	75.1 259.5	555.3
CHLO ST. THOMAS			ON		1570		10.000	967.2	N 42° 42' 22.0" W 81° 06' 20.0"	75.1 259.5	555.3
WKKS VANCEBURG	Lic	BROWN COMMUNICATIONS, INC.	KY	BL-19880204AE	1570	D/B	1.000	302.6	N 38° 35' 50.0" W 83° 20' 50.0"	130.8 313.6	497.3
WKKS VANCEBURG	Prm	BROWN COMMUNICATIONS, INC.	KY	PLAN-	1570		0.381	304.2	N 38° 35' 39.0" W 83° 19' 33.0"	130.7 313.5	498.9
WSWV PENNINGTON GAP	Lic	IBS COMMUNICATIONS, L.L.C.	VA	BL-19870625AD	1570	B/B	2.300	372.0	N 36° 44' 02.0" W 83° 02' 34.0"	142.1 325.0	672.7

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime

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Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
WSWV PENNINGTON GAP	Lic	IBS COMMUNICATIONS, L.L.C.	VA	BL-19861001AI	1570		0.191	372.0	N 36° 45' 24.0" W 83° 00' 55.0"	141.8 324.7	672.1
WPTW PIQUA	Lic	FRONTIER BROADCASTING, LLC #2	OH	BP-19930112DA	1570	B/B	0.250 0.250	321.9 321.9	N 40° 08' 25.0" W 84° 16' 07.0"	118.5 300.7	329.6
WCLE CLEVELAND	Lic	WILLIAMS COMMUNICATIONS, INC.	TN	BL-19801024AC	1570		0.084	372.0	N 35° 10' 55.0" W 84° 50' 55.0"	160.0 341.8	755.3
WCLE CLEVELAND	Lic	WILLIAMS COMMUNICATIONS, INC.	TN	BL-19850318AC	1570	D/B	5.000	372.0	N 35° 10' 55.0" W 84° 50' 55.0"	160.0 341.8	755.3
WWCK FLINT	Lic	CUMULUS LICENSING LLC	MI	BL-19970124AE	1570	D/B	1.000 0.179	282.0 282.0	N 43° 00' 39.0" W 83° 39' 03.0"	63.4 246.1	366.2
WGLL 01.0" AUBURN	Lic 96.9	THE RAYMOND S. AND DOROTHY N. MOORE FOUNDATION, INC. 220.9	IN	BL-	1570	D/B	0.151	123.1	0.500 W 85° 03' 08.0"	224.0N 278.7	41° 20'
NEW ACME	App 393.6	GREAT NORTHERN BROADCASTING SYSTEM, INC.	MI	BNP-20040128AKW	1570	B/B	1.700 0.250	160.2	417.7N W 85° 30' 00.0"	44° 46' 05.0" 207.4	25.9
WLBJ 40.0" NEW ALBANY	Lic 155.5	MORTENSON BROADCASTING COMPANY OF LOUISVILLE, INC. 398.5	IN	BL-19890606AH	1570	B/B	0.233	317.9	1.500 W 85° 46' 56.0"	317.9N 336.7	38° 19'
WFUR GRAND RAPIDS	Lic	FURNITURE CITY BROADCASTING CORP.	MI	BL-	1570	B/B	1.000 0.307	418.4 418.4	N 42° 57' 14.0" W 85° 41' 52.0"	46.7 228.0	221.6
WSCO APPLETON	CP	WOODWARD COMMUNICATIONS, INC.	WI	BP-20021213AAG	1570	B/B	0.490 0.246	441.0 441.0	N 44° 15' 37.0" W 88° 22' 00.0"	349.5 169.0	300.6
WBGX HARVEY	Lic	GREAT LAKES RADIO-CHICAGO, LLC	IL	BL-	1570	B/B	1.000 0.500	281.6 199.2	N 41° 36' 14.0" W 87° 40' 45.0"	0.0 0.0	0.0
WTAY ROBINSON	Lic	ANN BROADCASTING CORP.	IL	BL-19880818AB	1570	D/B	0.250	301.0	N 39° 00' 29.0" W 87° 46' 41.0"	181.7 1.6	288.7
WTAY ROBINSON	Prm	ANN BROADCASTING CORP.	IL	PLAN-	1570		0.188	301.0	N 39° 00' 29.0" W 87° 46' 41.0"	181.7 1.6	288.7
WNKX CENTERVILLE	Lic	HICKMAN COUNTY BROADCASTING CO., INC.	TN	BL-19800623AA	1570	D/B	5.000	315.4	N 35° 45' 29.0" W 87° 27' 35.0"	178.3 358.4	650.2
WNKX CENTERVILLE	Prm	HICKMAN COUNTY BROADCASTING CO., INC.	TN	PLAN-	1570		0.077	315.4	N 35° 45' 29.0" W 87° 27' 35.0"	178.3 358.4	650.2
WLBQ MORGANTOWN	Lic	BUTLER COUNTY BROADCASTING CO.	KY	BL-19830502AB	1570	D/B	1.000 0.150	301.0 301.0	N 37° 14' 10.0" W 86° 42' 29.0"	169.9 350.6	492.7

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime

Frequency: 1570 kHz
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Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call / City of license	Auth	Licensee	St	FCC file number	Freq	Class / Oper	D-kW / N-kW	D-RMS / N-RMS	Latitude / Longitude	Br-to / -from	Dist (km)
WLBQ	App	BUTLER COUNTY BROADCASTING CO.			1570	D/B	1.000	305.7	N 37° 13' 09.0"	169.8	494.8
MORGANTOWN			KY	BP-20040621AAL			0.150	305.7	W 86° 41' 21.0"	350.4	
WILO	Lic	KASPER BROADCASTING COMPANY, INC.			1570	B/B	0.250	301.0	N 40° 16' 40.0"	145.4	178.3
FRANKFORT			IN	BL-			0.250	301.0	W 86° 29' 07.0"	326.2	
WTRB	Lic	WILLIAMS COMMUNICATIONS, INC.			1570	D/B	1.000	283.2	N 35° 43' 46.0"	194.5	672.8
RIPLEY			TN	BL-			0.053	283.2	W 89° 32' 33.0"	13.3	
WSCO	Lic	WOODWARD COMMUNICATIONS, INC.			1570	B/B	1.000	317.0	N 44° 13' 04.0"	348.7	296.6
APPLETON			WI	BL-			0.331	317.0	W 88° 24' 33.0"	168.2	
WFRL	Lic	MAYFAIR BROADCASTING CORPORATION			1570	B/B	5.000	675.9	N 42° 18' 45.0"	297.1	176.8
FREEPORT			IL	BL-19840130AG			0.500	213.7	W 89° 35' 38.0"	115.8	
WLKD	Lic	RAVEN BROADCASTING CORP.			1570	B/B	5.000	281.6	N 45° 49' 13.0"	341.4	496.7
MINOCQUA			WI	BL-19840806AE			0.500	281.6	W 89° 43' 27.0"	160.0	
WBGZ	Lic	METROPLEX COMMUNICATIONS, INC.			1570	D/B	1.000	349.2	N 38° 55' 44.0"	216.7	367.1
ALTON			IL	BL-			0.074	349.2	W 90° 13' 03.0"	35.1	
WKBH	Lic	STARBOARD BROADCASTING, INC.			1570	B/B	1.000	305.8	N 43° 55' 32.0"	312.6	390.3
HOLMEN			WI	BL-19840907AC			0.360	305.8	W 91° 16' 02.0"	130.2	
KBRI	Lic	EAST ARKANSAS BROADCASTERS, INC.			1570	D/B	0.250	318.7	N 34° 52' 02.0"	203.4	809.5
BRINKLEY			AR	BL-					W 91° 12' 04.0"	21.3	
KBRI	Prm	EAST ARKANSAS BROADCASTERS, INC.			1570				N 34° 52' 02.0"	203.4	809.5
BRINKLEY			AR	PLAN-			0.023	318.7	W 91° 12' 04.0"	21.3	
KMCD	Lic	FAIRFIELD MEDIA GROUP, INC			1570	D/B	0.250	315.4	N 41° 00' 25.0"	261.0	368.0
FAIRFIELD			IA	BL-					W 92° 00' 50.0"	78.2	
KMCD	Prm	FAIRFIELD MEDIA GROUP, INC			1570				N 41° 00' 25.0"	261.0	368.0
FAIRFIELD			IA	PLAN-			0.109	315.4	W 92° 00' 50.0"	78.2	
KLEX	Lic	BOTT COMMUNICATIONS, INC.			1570	D/B	0.250	299.3	N 39° 11' 14.0"	244.7	586.1
LEXINGTON			MO	BL-19780922AA			0.040	299.3	W 93° 50' 03.0"	60.8	
KYCR	Lic	COMMON GROUND BROADCASTING, INC.			1570	B/B	3.800	319.9	N 44° 57' 39.0"	311.0	591.8
GOLDEN VALLEY			MN	BL-19961122AA			0.230	319.9	W 93° 21' 25.0"	127.1	
KNDY	Lic	DIERKING COMMUNICATIONS, INC.			1570	D/B	0.250	317.0	N 39° 51' 02.0"	258.5	780.0
MARYSVILLE			KS	BL-					W 96° 38' 52.0"	72.6	
KNDY	Prm	DIERKING COMMUNICATIONS, INC.			1570				N 39° 51' 02.0"	258.5	780.0
MARYSVILLE			KS	PLAN-			0.033	317.0	W 96° 38' 52.0"	72.6	
KQWC	Lic	WMMP, LLC			1570	D/B	0.232	329.5	N 42° 28' 04.0"	282.8	514.1
WEBSTER CITY			IA	BL-20010822AAT			0.137	329.5	W 93° 47' 48.0"	98.7	

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime

Frequency: 1570 kHz
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Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	Freq FCC file number	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
NEW HOLLISTER	CP	BOTT COMMUNICATIONS, INC.	MO	1570 BNP-20000131ABA	B/B	5.000 5.000	712.7 637.2	N 36° 30' 50.0" W 93° 12' 54.0"	222.0 38.5	740.4
NEW HOLLISTER	CP	BOTT COMMUNICATIONS, INC.	MO	1570 BNP-20000131ABA	B/B	5.000 5.000	712.7 637.2	N 36° 36' 50.0" W 93° 12' 54.0"	222.5 39.0	731.7
KBCV HOLLISTER	App	BOTT COMMUNICATIONS, INC.	MO	1570 BMP-20031003ABJ	B/B	5.000 3.000	712.7 493.6	N 36° 36' 51.0" W 93° 12' 50.0"	222.5 39.0	731.6
KBCV HOLLISTER	CP	BOTT COMMUNICATIONS, INC.	MO	1570 BNP-20001023ACS	B/B	5.000 3.000	712.7 494.2	N 36° 36' 51.0" W 93° 12' 50.0"	222.5 39.0	731.6
KBCV HOLLISTER	App	BOTT COMMUNICATIONS, INC.	MO	1570 BMP-20031003ABJ	B/B	5.000 3.000	712.7 493.6	N 36° 36' 52.0" W 93° 12' 49.0"	222.5 39.0	731.6
KBCV HOLLISTER	CP	BOTT COMMUNICATIONS, INC.	MO	1570 BNP-20001023ACS	B/B	5.000 3.000	712.7 494.2	N 36° 36' 52.0" W 93° 12' 49.0"	222.5 39.0	731.6
KESM ELDORADO SPRINGS	Lic	WILDWOOD COMMUNICATIONS, INC.	MO	1580 BL-19810119AF	D/B	0.500 0.032	282.0 282.0	N 37° 51' 51.0" W 94° 00' 54.0"	234.6 50.5	682.6
KTGR COLUMBIA	Lic	ZIMMER RADIO OF MID-MISSOURI, INC.	MO	1580 BL-	D/B	0.250 0.015	304.2 304.2	N 38° 58' 01.0" W 92° 18' 39.0"	234.8 51.8	490.0
KCHA CHARLES CITY	Lic 440.3	CLEAR CHANNEL BROADCASTING LICENSES, INC.	IA	1580 BL-19810318AA	D/B	0.500 0.010	317.0	317.0N W 92° 40' 00.0"	43° 03' 05.0" 109.7	293.1
WBBA PITTSFIELD	Lic	BROWN RADIO GROUP, INC.	IL	1580 BL-	D/B	0.250 0.012	282.0 282.0	N 39° 34' 53.0" W 90° 47' 52.0"	230.5 48.5	346.2
WKKD SILVIS	App	KOVAS COMMUNICATIONS OF INDIANA, INC.	IL	1580 BMJP-20040130BMS	B/B	1.000 0.600	322.8 246.8	N 41° 31' 32.0" W 90° 22' 38.0"	268.7 86.9	224.6
NEW MIDDLETON	App	GEORGE S. FLINN, JR.	TN	1580 BNP-20040129AMG	B/B	0.250 0.250	300.0 161.8	N 35° 03' 52.0" W 88° 53' 27.0"	188.7 7.9	734.7
WTTN WATERTOWN	Lic	GOOD KARMA BROADCASTING, LLC	WI	1580 BL-19851125AE	D/B	1.000 0.006	305.8 305.8	N 43° 11' 43.0" W 88° 45' 17.0"	333.8 153.1	197.7
WDQN 56.0" DUQUOIN	Lic 199.1	DUQUOIN BROADCASTING COMPANY, A GENERAL PARTNERSHIP 418.9	IL	1580 BL-19930208AF	D/B	0.007	379.4	0.170 W 89° 14' 30.0"	379.4N 18.1	38° 01'
WTTN COLUMBUS	App	GOOD KARMA BROADCASTING, LLC	WI	1580 BMJP-20040129AGA	D/B	0.470	388.0	N 43° 20' 04.0" W 89° 09' 57.0"	328.1 147.1	227.8
WAMW WASHINGTON	Lic	GREENE ELECTRONICS	IN	1580 BL-19911220AB	D/B	0.500 0.005	240.7 357.3	N 38° 38' 47.0" W 87° 16' 48.0"	174.0 354.2	330.6

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

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Call / City of license	Auth	Licensee	St	FCC file number	Freq	Class / Oper	D-kW / N-kW	D-RMS / N-RMS	Latitude / Longitude	Br-to / -from	Dist (km)
WPKY	Lic	CALDWELL COUNTY CBC, INC.			1580	D/B	0.250	317.0	N 37° 07' 14.0"	181.8	498.7
PRINCETON			KY	BL-			0.009	317.0	W 87° 51' 31.0"	1.7	
WBCP	Lic	WBCP, INC.			1580	D/B	0.250	302.6	N 40° 07' 32.0"	197.6	172.2
URBANA			IL	BL-			0.010	302.6	W 88° 17' 29.0"	17.2	
WKKD	Lic	KOVAS COMMUNICATIONS OF INDIANA, INC.			1580	B/B	0.170	144.3	N 41° 46' 12.0"	290.9	52.2
AURORA			IL	BL-19891004AD			0.200	164.9	W 88° 16' 03.0"	110.5	
WDND	Lic	TIMES COMMUNICATIONS INC.			1580	B/B	1.000	305.8	N 41° 41' 09.0"	85.4	126.2
SOUTH BEND			IN	BL-19880812AB			0.500	209.9	W 86° 09' 53.0"	266.4	
WLIJ	Lic	HOPKINS-HALL BROADCASTING, INC.			1580	D/B	5.000	318.7	N 35° 27' 19.0"	170.7	691.9
SHELBYVILLE			TN	BL-19980410KD			0.012	318.7	W 86° 27' 07.0"	351.5	
WAMW	Lic	GREENE ELECTRONICS			1580	D/B	0.500	240.7	N 38° 39' 04.0"	172.3	331.2
WASHINGTON			IN	BL-19911220AB			0.005	357.3	W 87° 09' 55.0"	352.6	
WCNB	Lic	RODGERS BROADCASTING CORPORATION			1580	D/B	0.250	320.3	N 39° 38' 18.0"	134.8	305.5
CONNERSVILLE			IN	BL-19790618AF			0.005	320.3	W 85° 08' 54.0"	316.5	
WAHI	Lic	METROPOLITAN MANAGEMENT CORPORATION OF TENNESSEE			1580	D/B			5.000	360.5	N 35° 54' 42.0" 151.4 712.8
KNOXVILLE			TN	BL-					W 83° 53' 33.0"	333.8	
WAHI	Prm	METROPOLITAN MANAGEMENT CORPORATION OF TENNESSEE			1580						N 35° 54' 42.0" 151.4 712.8
KNOXVILLE			TN	PLAN-			0.007	360.5	W 83° 53' 33.0"	333.8	
WXRA	Lic	CITICASTERS LICENSES, L.P.			1580	D/B	10.000	914.1	N 38° 10' 05.0"	144.4	463.8
GEORGETOWN			KY				0.045	61.1	W 84° 35' 37.0"	326.4	
WWSJ	Lic	LARRY & HELEN HARP, WAYNE & ELMIRA HILL			1580	D/B	1.000	283.2	N 42° 58' 14.0"	58.4	298.9
ST. JOHNS			MI	BL-			0.003	15.5	W 84° 32' 59.0"	240.5	
WVKO	CP	STOP 26 RIVERBEND LICENSES, LLC			1580	B/B	5.000	692.0	N 40° 03' 20.0"	111.9	431.8
COLUMBUS			OH	BP-20031124APJ			0.290	162.1	W 82° 58' 15.0"	295.0	
WVKO	CP	STOP 26 RIVERBEND LICENSES, LLC			1580	B/B	5.000	692.0	N 39° 56' 48.0"	113.6	433.4
COLUMBUS			OH	BP-20031124APJ			0.290	162.1	W 83° 01' 06.0"	296.7	
WVKO	Lic	STOP 26 RIVERBEND LICENSES, LLC			1580	B/B	1.000	350.0	N 40° 02' 50.0"	112.5	425.2
COLUMBUS			OH	BL-19970508AB			0.250	157.1	W 83° 03' 44.0"	295.5	
DWDAB	Lic	DABNEY-ADAMSON BROADCASTING, INC.			1580	D/B	5.000	342.8	N 34° 56' 55.0"	146.6	869.2
TRAVELERS REST			SC	BL-19800314AK					W 82° 26' 38.0"	329.9	
DWDAB	Prm	DABNEY-ADAMSON BROADCASTING, INC.			1580				N 34° 56' 55.0"	146.6	869.2
TRAVELERS REST			SC	PLAN-			0.010	342.8	W 82° 26' 38.0"	329.9	

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime

Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call / City of license	Auth	Licensee	St	FCC file number	Freq	Class / Oper	D-kW / N-kW	D-RMS / N-RMS	Latitude / Longitude	Br-to / -from	Dist (km)
WILA / DANVILLE	Lic	TOL-TOL COMMUNICATIONS, INC.	VA	BL-	1580	D/B	1.000	299.3	N 36° 34' 03.0" / W 79° 22' 50.0"	125.3 / 310.6	908.3
WZKY / ALBEMARLE	Lic	STANLY COMMUNICATIONS, INC.	NC	BL-19841212AJ	1580	D/B	1.000 / 0.012	304.0 / 304.0	N 35° 21' 38.0" / W 80° 10' 39.0"	134.4 / 319.0	952.2
WANB / WAYNESBURG	Lic	BROADCAST COMMUNICATIONS, INC.	PA	BL-20030923AEK	1580	D/B	0.720	373.0	N 39° 52' 12.0" / W 80° 08' 01.0"	104.4 / 289.3	664.0
WRDD / EBENSBURG	Lic	VERNAL ENTERPRISES, INC	PA	BL-	1580	D/B	1.000 / 0.004	312.2 / 312.2	N 40° 29' 33.0" / W 78° 42' 54.0"	96.4 / 282.3	761.3
KHGG / VAN BUREN	Lic	PHARIS BROADCASTING, INC.	AR	BL-	1580	D/B	1.000 / 0.045	331.5 / 331.5	N 35° 25' 58.0" / W 94° 19' 47.0"	222.3 / 38.1	896.8
KNIM / MARYVILLE	CP	NODAWAY BROADCASTING CORPORATION	MO	BP-20020808AAH	1580	D/B	0.500 / 0.007	370.2 / 370.2	N 40° 23' 31.0" / W 94° 58' 04.0"	260.0 / 75.2	626.1
KNIM / MARYVILLE	Lic	NODAWAY BROADCASTING CORPORATION	MO	BL-19950502AA	1580	D/B	0.700 / 0.007	384.7 / 384.7	N 40° 19' 03.0" / W 94° 52' 14.0"	259.0 / 74.3	620.3
KDOM / WINDOM	Lic	WINDOM RADIO INCORPORATED	MN	BL-19830720AJ	1580	D/B	1.000 / 0.002	309.9 / 15.0	N 43° 51' 41.0" / W 95° 05' 50.0"	295.0 / 110.0	655.4
KDJS / WILLMAR	Lic	IOWA CITY BROADCASTING COMPANY, INC.	MN	BL-19810212AB	1590	D/B	1.000 / 0.089	311.9 / 93.1	N 45° 05' 07.0" / W 95° 00' 19.0"	305.6 / 120.6	707.2
KPRT / KANSAS CITY	Lic	CARTER BROADCAST GROUP, INC.	MO	BL-	1590	D/B	1.000 / 0.047	299.3 / 299.3	N 39° 04' 05.0" / W 94° 32' 10.0"	246.4 / 61.9	645.6
KZRA / SPRINGDALE	Lic	CUMULUS LICENSING LLC	AR	BL-19790108AB	1590		0.058	304.2	N 36° 12' 21.0" / W 94° 07' 11.0"	224.9 / 40.9	818.5
KZRA / SPRINGDALE	Lic	CUMULUS LICENSING LLC	AR	BL-19841219AJ	1590	D/B	2.500	304.2	N 36° 12' 21.0" / W 94° 07' 11.0"	224.9 / 40.9	818.5
NEW / KEARSARGE	App	EATON-DIETTERICH PARTNERSHIP	PA	BNP-20040129AKO	1590	B/B	0.500 / 0.500	252.8 / 247.9	N 42° 02' 21.0" / W 80° 05' 28.0"	83.1 / 268.1	630.4
WZUM / CARNEGIE	Lic	HORVATH BROADCASTING, L.L.C.	PA	BL-	1590	D/B	1.000	321.9	N 40° 25' 40.0" / W 80° 05' 09.0"	99.1 / 284.1	650.0
WZUM / CARNEGIE	Prm	HORVATH BROADCASTING, L.L.C.	PA	PLAN-	1590		0.012	35.3	N 40° 25' 40.0" / W 80° 05' 09.0"	99.1 / 284.1	650.0
WZUM / CARNEGIE	CP	HORVATH BROADCASTING, L.L.C.	PA	BP-20021010AAY	1590	D/B	1.000 / 0.024	317.9 / 49.3	N 40° 25' 28.0" / W 80° 05' 05.0"	99.1 / 284.1	650.2
WYSR / HIGH POINT	Lic	EASTERN BROADCASTING GROUP, INC.	NC	BL-20011002ACP	1590	D/B	1.400 / 0.014	301.4 / 301.4	N 35° 59' 04.0" / W 80° 04' 08.0"	131.0 / 315.8	907.7

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
WAKR	Lic	RUBBER CITY RADIO GROUP, INC.			1590	B/B	5.000	375.0	N 41° 01' 14.0"	95.1	519.5
AKRON			OH	BL-			5.000	788.6	W 81° 30' 20.0"	279.2	
WCSL	Lic	HRN BROADCASTING, INC.			1590	D/B	1.000	282.0	N 35° 22' 28.0"	139.8	881.3
CHERRYVILLE			NC	BL-19861112AE			0.042	282.0	W 81° 24' 23.0"	323.7	
WHLX	Lic	LIGGETT COMMUNICATIONS, L.L.C.			1590	D/B	1.000	338.0	N 42° 43' 42.0"	71.9	443.0
MARINE CITY			MI	BL-			0.102	107.9	W 82° 31' 15.0"	255.4	
WKTP	Lic 738.6	HOLSTON VALLEY BROADCASTING CORPORATION			1590	B/B	5.000	665.3N	36° 19' 54.0"	140.8	
JONESBOROUGH			TN	BL-20000406AAW			5.000	665.3	W 82° 28' 27.0"	324.1	
WBHN	Lic	STARCAST SOUTH, INC.			1590	D/B	0.500	289.7	N 35° 25' 41.0"	150.4	779.2
BRYSON CITY			NC	BL-			0.037	289.7	W 83° 26' 18.0"	333.1	
WSRW	Lic 438.5	CLEAR CHANNEL BROADCASTING LICENSES, INC.			1590	D/B	0.500	284.9N	39° 09' 58.0"	126.8	
HILLSBORO			OH	BL-19850913AA					W 83° 36' 25.0"	309.5	
WSRW	Prm 438.5	CLEAR CHANNEL BROADCASTING LICENSES, INC.			1590				N 39° 09' 58.0"	126.8	
HILLSBORO			OH	PLAN-			0.025	284.9	W 83° 36' 25.0"	309.5	
WLBN	Lic	CBC OF MARION COUNTY, INC			1590	D/B	1.000	312.2	N 37° 35' 55.0"	154.1	491.6
LEBANON			KY	BL-			0.024	312.2	W 85° 14' 47.0"	335.7	
WTVB	Lic	MIDWEST COMMUNICATIONS, INC			1590	B/B	5.000	317.0	N 41° 54' 34.0"	80.4	224.3
COLDWATER			MI	BL-			1.000	290.3	W 85° 00' 21.0"	262.2	
NEW	App	MENTOR PARTNERS, INC.			1590	B/B	1.000	317.5	N 43° 40' 35.0"	37.3	292.4
BIG RAPIDS			MI	BNP-20040126AJM			0.250	158.7	W 85° 28' 42.0"	218.7	
WATX	Lic	JWC BROADCASTING			1590				N 36° 11' 02.0"	161.3	633.5
ALGOOD			TN	BL-19811019AD			0.037	305.8	W 85° 25' 03.0"	342.7	
WATX	Lic	JWC BROADCASTING			1590	D/B	1.000	305.8	N 36° 11' 02.0"	161.3	633.5
ALGOOD			TN	BL-19851205AB					W 85° 25' 03.0"	342.7	
WTRW	Lic	WTRW, INC.			1590	D/B	1.000	315.4	N 44° 10' 23.0"	1.9	285.8
TWO RIVERS			WI	BL-			0.033	315.4	W 87° 33' 37.0"	182.0	
WNTS	Lic	S + M BROADCASTING CO., INC.			1590	B/B	5.000	700.1	N 39° 44' 21.0"	146.6	246.8
BEECH GROVE			IN	BL-19791113AG			0.500	216.0	W 86° 05' 29.0"	327.7	
WNTS	Lic	S + M BROADCASTING CO., INC.			1590	B/B	5.000	700.1	N 39° 44' 21.0"	146.6	246.8
BEECH GROVE			IN	BL-19791113AG			0.500	216.0	W 86° 05' 26.0"	327.6	
WONX	App	KOVAS COMMUNICATIONS, INC.			1590	B/B	20.000	1452.0	N 41° 47' 47.0"	293.9	53.3
CAROL STREAM			IL	BMJP-20040127AJF			5.000	888.4	W 88° 16' 03.0"	113.5	

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime
Frequency: 1570 kHz
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Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
WRCY MT. VERNON	Lic	THE ORIGINAL COMPANY, INC	IN	BL-	1590	D/B	0.500 0.035	318.7 318.7	N 37° 56' 03.0" W 87° 55' 42.0"	183.1 2.9	408.6
WTRW DENMARK	App	WTRW, INC.	WI	BMJP-20040130AEZ	1590	B/B	10.000 1.000	1014.0 336.5	N 44° 18' 56.0" W 87° 47' 15.0"	358.4 178.3	301.6
WONX EVANSTON	CP	KOVAS COMMUNICATIONS, INC.	IL	BP-19940630DB	1590	B/B	3.500	584.7	N 42° 01' 20.0" W 87° 42' 43.0"	356.7 176.6	46.6
WONX EVANSTON	Lic	KOVAS COMMUNICATIONS, INC.	IL	BL-19850225AA	1590	B/B	1.000 2.500	312.0 484.4	N 42° 01' 20.0" W 87° 42' 43.0"	356.7 176.6	46.6
WDBL SPRINGFIELD	Lic	LIGHTNING BROADCASTING, LLC	TN	BL-19920702AD	1590	D/B	0.710 0.030	375.6 375.6	N 36° 29' 42.0" W 86° 54' 22.0"	173.1 353.5	571.9
KDEX DEXTER	Lic	DEXTER BROADCASTING COMPANY	MO	BL-19930105AC	1590	D/B	0.620	358.5	N 36° 47' 20.0" W 89° 54' 28.0"	200.4 19.0	568.7
WAIK GALESBURG	Lic	WPW BROADCASTING, INC.	IL	BL-19800206AB	1590	D/B	5.000 0.055	701.7 73.6	N 40° 57' 43.0" W 90° 18' 30.0"	252.9 71.1	231.0
WPVL PLATTEVILLE	Lic	QUEENB RADIO WISCONSIN, INC.	WI	BL-	1590	B/B	1.000 0.500	320.3 231.8	N 42° 44' 46.0" W 90° 28' 28.0"	299.8 117.9	263.0
KMOZ ROLLA	Lic	KDAA-KMOZ, LLC	MO	BL-	1590	D/B	1.000 0.085	302.6 302.6	N 37° 56' 41.0" W 91° 48' 40.0"	222.3 39.6	538.5
WIXK NEW RICHMOND	Lic	WIXK-AM, LLC	WI	BL-	1590	D/B	5.000	376.6	N 45° 05' 10.0" W 92° 34' 19.0"	316.0 132.7	553.3
KWBG BOONE	Lic	WMMP, LLC	IA	BL-	1590	B/B	1.000 0.500	317.0 228.5	N 42° 01' 22.0" W 93° 52' 36.0"	277.2 93.1	515.5
KZGX WATERTOWN	Lic	WM BROADCASTING, INC.	MN	BL-19960408AC	1600	B/B	5.000 5.000	713.4 713.4	N 44° 55' 23.0" W 93° 46' 56.0"	308.8 124.6	616.4
KTTN TRENTON	Lic	LUEHRS BROADCASTING CO. INC	MO	BL-19790403AA	1600	D/B	0.500 0.033	299.3 299.3	N 40° 05' 00.0" W 93° 33' 30.0"	253.1 69.2	522.4
KNWA BELLEFONTE	Lic	HARRISON RADIO STATIONS, INC.	AR	BL-19860320AD	1600		0.050	305.0	N 36° 14' 49.0" W 93° 05' 06.0"	219.9 36.5	756.8
KNWA BELLEFONTE	Lic	HARRISON RADIO STATIONS, INC.	AR	BL-19860923AB	1600	D/B	5.000	305.0	N 36° 14' 49.0" W 93° 05' 06.0"	219.9 36.5	756.8
NEW HIBBING	App	SCOTT POWELL	MN	BNP-20040129AXW	1600	B/B	0.250 0.250	305.8 305.8	N 47° 25' 24.0" W 92° 56' 12.0"	329.0 145.3	769.2
NEW SOUTH SUPERIOR	App	EVANGELICAL BROADCASTING GROUP, INC.	WI	BNP-20040130BKP	1600	B/B	2.000 0.250	444.5 155.2	N 46° 39' 09.0" W 92° 05' 08.0"	329.4 146.4	662.1

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

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Longitude: W 87° 40' 45.0"

Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
KCRG CEDAR RAPIDS	Lic	CEDAR RAPIDS TELEVISION CO.	IA	BL-	1600	B/B	5.000 5.000	431.3 989.8	N 41° 58' 21.0" W 91° 32' 04.0"	278.6 96.0	322.2
NEW EMINENCE	App	BARBARA LYNCH	MO	BNP-20040130ABE	1600	B/B	1.000 0.250	304.0 304.0	N 37° 09' 01.0" W 91° 21' 26.0"	213.7 31.4	587.3
KATZ ST. LOUIS	Lic	CITICASTERS LICENSES, L.P.	MO	BL-19851009AF	1600	B/B	5.000 5.000	305.8 642.2	N 38° 39' 19.0" W 90° 07' 53.0"	213.2 31.7	388.4
KATZ ST. LOUIS	CP	CITICASTERS LICENSES, L.P.	MO	BP-20031121AEO	1600	B/B	6.000 3.500	768.9 636.5	N 38° 37' 02.0" W 90° 04' 52.0"	212.4 30.8	389.8
WMQM LAKELAND	Lic	WMQM, INC.	TN	BL-20030122AEY	1600	D/B	50.000 0.035	321.6 321.6	N 35° 10' 34.0" W 89° 56' 10.0"	196.1 14.7	741.1
WMQM MILAN	Prm	WMQM, INC.	TN	PLAN-	1600		0.051	312.0	N 35° 55' 37.0" W 88° 44' 27.0"	188.6 8.0	637.8
WRPN RIPON	Lic	RADIO BROADCASTING LIMITED PARTNERSHIP	WI	BL-	1600	B/B	5.000 5.000	704.9 684.0	N 43° 49' 01.0" W 88° 50' 49.0"	339.2 158.4	263.9
WMCW HARVARD	Lic	KOVAS COMMUNICATIONS OF INDIANA, INC.	IL	BL-19880722AJ	1600	D/B	0.500 0.018	323.5 323.5	N 42° 26' 11.0" W 88° 36' 39.0"	320.6 139.9	120.4
WAIA BEAVER DAM	Lic	STARLIGHT BROADCASTING CO., INC.	KY	BL-19970912KC	1600	D/B	1.000	282.0	N 37° 26' 36.0" W 86° 53' 57.0"	171.5 352.0	467.4
WAIA HARTFORD	Prm	STARLIGHT BROADCASTING CO., INC.	KY	PLAN-	1600		0.068	282.0	N 37° 26' 36.0" W 86° 53' 57.0"	171.5 352.0	467.4
WBTO LINTON	Lic	THE ORIGINAL COMPANY, INC	IN	BL-	1600	D/B	0.500 0.032	307.4 307.4	N 39° 03' 57.0" W 87° 11' 19.0"	171.5 351.8	285.2
WCGO CHICAGO HEIGHTS	Lic	KOVAS COMMUNICATIONS OF INDIANA, INC.	IL	BL-	1600	D/B	1.000	289.7	N 41° 31' 05.0" W 87° 35' 11.0"	141.0 321.1	12.3
WCGO CHICAGO HEIGHTS	Prm	KOVAS COMMUNICATIONS OF INDIANA, INC.	IL	PLAN-	1600		0.023	43.9	N 41° 31' 05.0" W 87° 35' 11.0"	141.0 321.1	12.3
WARU PERU	Lic	MIAMI COUNTY BROADCASTING, INC.	IN	BL-	1600	D/B	1.000	282.0	N 40° 45' 53.0" W 86° 02' 26.0"	123.7 304.8	165.8
WMHG MUSKEGON	Lic	CUMULUS LICENSING LLC	MI	BL-20000926AKY	1600	B/B	5.000 5.000	305.8 724.2	N 43° 11' 48.0" W 86° 13' 24.0"	33.5 214.5	213.6
NEW ELK RAPIDS	App	BARBARA LYNCH	MI	BNP-20040130ABI	1600	B/B	1.000 0.250	304.0 304.0	N 44° 53' 44.0" W 85° 24' 59.0"	25.8 207.4	409.2
WATX ALGOOD	App	JWC BROADCASTING	TN	BP-20030609AAU	1600	D/B	2.400 0.034	283.4 283.4	N 36° 11' 19.0" W 85° 28' 23.0"	161.7 343.1	631.5

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime

Frequency: 1570 kHz
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Latitude: N 41° 36' 14.0"
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Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
NEW ADA	App	LEXINGTON BROADCASTERS, INC.	MI	BNP-20040129ATQ	1600	B/B	0.250 0.250	305.5 305.5	N 42° 57' 17.0" W 85° 28' 53.0"	49.5 231.0	235.0
NEW HARBOR SPRINGS	App	BARBARA LYNCH	MI	BNP-20040130ABX	1600	B/B	1.000 0.250	304.0 304.0	N 45° 25' 54.0" W 84° 59' 30.0"	26.1 207.9	477.5
NEW BOYNE FALLS	App	BARBARA LYNCH	MI	BNP-20040130ABH	1600	B/B	1.000 0.250	304.0 304.0	N 45° 10' 05.0" W 84° 54' 58.0"	28.5 210.4	454.8
WTSZ EMINENCE	Lic	METRO EAST CBC, INC.	KY	BL-19930310AE	1600	D/B	0.320	389.5	N 38° 21' 09.0" W 85° 11' 09.0"	148.8 330.4	419.2
NEW MANCELONA	App	BARBARA LYNCH	MI	BNP-20040130ABJ	1600	B/B	1.000 0.250	304.0 304.0	N 44° 54' 07.0" W 85° 03' 39.0"	29.1 210.9	423.5
WTTF TIFFIN	Lic	CITICASTERS LICENSES, L.P.	OH	BL-	1600	D/B	0.500 0.019	201.2 39.2	N 41° 07' 32.0" W 83° 13' 55.0"	96.7 279.6	374.8
WAAM OAK PARK	App	BIG D BROADCASTING, LLC	MI	BMJP-20040130APA	1600	B/B	15.000 15.000	1257.8 1269.8	N 42° 14' 15.0" W 83° 09' 33.0"	77.8 260.8	380.4
WULM SPRINGFIELD	Lic	URBAN LIGHT MINISTRIES, INC.	OH	BL-19871230AG	1600	D/B	1.000 0.034	381.4 381.4	N 39° 57' 11.0" W 83° 52' 07.0"	118.5 301.0	369.5
WAAM ANN ARBOR	Lic	BIG D BROADCASTING, LLC	MI	BL-	1600	B/B	5.000 5.000	659.8 700.1	N 42° 11' 32.0" W 83° 41' 09.0"	77.5 260.1	336.8
WRSL CORBIN	App	LINCOLN-GARRARD BROADCASTING CO.,INC	KY	BMJP-20040130AYC	1600	D/B	1.000	305.0	N 37° 01' 01.0" W 84° 06' 01.0"	147.7 330.0	595.6
WXMY SALTVILLE	CP	CONTINENTAL MEDIA GROUP, LLC	VA	BP-20040105AAH	1600	D/B	10.000 0.010	899.0 28.4	N 36° 51' 43.0" W 81° 43' 29.0"	133.9 317.6	735.1
WXMY SALTVILLE	Lic	CONTINENTAL MEDIA GROUP, LLC	VA	BL-19811023AA	1600	D/B	5.000	282.0	N 36° 51' 43.0" W 81° 43' 29.0"	133.9 317.6	735.1
WTZQ HENDERSONVILLE	Lic	HOUSTON BROADCASTING, INC.	NC	BL-19990517DD	1600	D/B	1.000 0.012	291.0 291.0	N 35° 18' 53.0" W 82° 25' 58.0"	145.2 328.5	834.8
WZZW MILTON	Lic	CAPSTAR TX LIMITED PARTNERSHIP	WV	BL-19880502AE	1600	D/B	5.000 0.026	437.4 309.0	N 38° 25' 46.0" W 82° 06' 21.0"	124.8 308.4	591.2
WKKX WHEELING	Lic	RCK 1 GROUP, LLC	WV	BL-	1600	D/B	5.000 0.033	318.7 318.7	N 40° 05' 26.0" W 80° 42' 11.0"	103.7 288.3	610.2
CHNR SIMCOE			ON		1600	B/B	10.000 10.000	965.6 933.4	N 42° 45' 06.0" W 80° 16' 03.0"	75.7 260.7	623.6
CHNR SIMCOE			ON		1600	B/B	10.000	965.6	N 42° 45' 06.0" W 80° 16' 03.0"	75.7 260.7	623.6

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Records processed during AM Daytime Allocation Study

Title: WBGX daytime

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Call City of license	Auth	Licensee	St	FCC file number	Freq	Class Oper	D-kW N-kW	D-RMS N-RMS	Latitude Longitude	Br-to -from	Dist (km)
CHNR					1600				N 42° 45' 06.0"	75.7	623.6
SIMCOE			ON				10.000	933.4	W 80° 16' 03.0"	260.7	
KLGA	Lic	WMMP, LLC			1600	B/B	1.000	322.1	N 43° 04' 05.0"	288.9	568.1
ALGONA			IA	BL-19990226DC			0.500	217.3	W 94° 18' 16.0"	104.4	
KMDO	Lic	FORT SCOTT BROADCASTING COMPANY INC.			1600	D/B	0.530	386.2	N 37° 48' 27.0"	237.2	734.3
FORT SCOTT			KS	BL-19910415AA			0.027	386.2	W 94° 42' 33.0"	52.7	
KNCY	Lic	ARBOR DAY BROADCASTING, INC.			1600	D/B	0.500	199.6	N 40° 40' 27.0"	264.2	694.6
NEBRASKA CITY			NE	BL-			0.031	49.7	W 95° 53' 08.0"	78.8	
NEW	App	BENJAMIN-DANE, LLC			1600	B/B	3.500	558.2	N 36° 47' 48.0"	122.7	920.3
HALIFAX			VA	BNP-20040130AEB			0.250	149.2	W 78° 58' 21.0"	308.2	
WIDU	Lic	W I D U BROADCASTING, INC.			1600	D/B	5.000	732.5	N 35° 05' 54.0"	130.5	1052.9
FAYETTEVILLE			NC	BL-19931007AB			0.147	125.6	W 78° 53' 12.0"	316.0	

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
1.0	478.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
2.0	494.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
3.0	512.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
4.0	531.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
5.0	550.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
6.0	575.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
7.0	605.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
8.0	632.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
9.0	654.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
10.0	676.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
11.0	699.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
12.0	735.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
13.0	777.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
14.0	839.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
15.0	923.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
16.0	1033.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
17.0	1199.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
18.0	1677.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
19.0	1729.0	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
20.0	1658.4	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
21.0	1595.9	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
22.0	1539.9	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
23.0	1489.4	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
24.0	1444.0	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
25.0	1403.6	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
26.0	1367.0	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
27.0	1333.5	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
28.0	1303.5	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
29.0	1276.7	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
30.0	1252.3	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
31.0	1231.0	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
32.0	1214.4	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
33.0	1199.6	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
34.0	1187.4	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
35.0	1177.0	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
36.0	1168.2	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
37.0	1163.0	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
38.0	1158.7	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
39.0	1156.3	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
40.0	778.0	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
41.0	688.4	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
42.0	641.9	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
43.0	613.8	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
44.0	596.1	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
45.0	586.1	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
46.0	584.3	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
47.0	586.4	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
48.0	591.4	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
49.0	599.5	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
50.0	609.9	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
51.0	621.1	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
52.0	635.1	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
53.0	662.5	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
54.0	692.6	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
55.0	730.2	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
56.0	783.7	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
57.0	849.2	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
58.0	927.8	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
59.0	1054.2	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
60.0	1228.1	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
61.0	1499.9	0.025	0.500	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
62.0	2751.5	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
63.0	2934.7	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
64.0	3127.7	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
65.0	3333.7	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
66.0	3553.3	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
67.0	3786.3	0.500	0.025	1.000	1	0	WFUR	1570	Lic	GRAND RAPIDS	MI
68.0	3918.3	0.250	0.500	4.100	2	0	WNWN	1560	Lic	PORTAGE	MI
69.0	4057.0	0.250	0.500	4.100	2	0	WNWN	1560	Lic	PORTAGE	MI
70.0	4237.8	0.250	0.500	4.100	2	0	WNWN	1560	Lic	PORTAGE	MI
71.0	4460.3	0.250	0.500	4.100	2	0	WNWN	1560	Lic	PORTAGE	MI
72.0	3310.1	0.500	0.250	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
73.0	2962.2	0.500	0.250	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
74.0	2802.2	0.500	0.250	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
75.0	2705.6	0.500	0.250	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
76.0	2231.1	0.250	0.500	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
77.0	2018.0	0.250	0.500	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
78.0	1886.4	0.250	0.500	1.000	1	0	WDND	1580	Lic	SOUTH BEND	IN
79.0	731.9	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
80.0	722.0	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
81.0	713.1	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
82.0	705.3	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
83.0	697.8	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
84.0	691.7	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
85.0	685.7	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
86.0	681.2	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
87.0	677.0	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
88.0	673.5	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
89.0	671.0	0.500	0.025	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
90.0	646.7	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
91.0	536.3	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
92.0	464.2	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
			Limiting station								
93.0	425.1	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
94.0	416.8	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
95.0	413.2	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
96.0	412.0	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
97.0	412.6	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
98.0	415.0	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
99.0	419.7	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
100.0	427.4	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
101.0	438.9	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
102.0	454.7	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
103.0	476.6	0.025	0.500	0.500	2	17	WGLL	1570	Lic	AUBURN	IN
104.0	433.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
105.0	325.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
106.0	275.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
107.0	241.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
108.0	216.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
109.0	196.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
110.0	180.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
111.0	167.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
112.0	155.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
113.0	146.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
114.0	137.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
115.0	130.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
116.0	123.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
117.0	118.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
118.0	112.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
119.0	108.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
120.0	104.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
121.0	100.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
122.0	96.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
123.0	93.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
124.0	90.6	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
125.0	88.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
126.0	85.6	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
127.0	83.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
128.0	81.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
129.0	79.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
130.0	77.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
131.0	76.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
132.0	74.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
133.0	73.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
134.0	72.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
135.0	71.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
136.0	70.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
137.0	69.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
138.0	68.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
139.0	67.6	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
140.0	67.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
141.0	66.3	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
142.0	65.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
143.0	65.3	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
144.0	65.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
145.0	64.6	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
146.0	64.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
147.0	64.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
148.0	64.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
149.0	63.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
150.0	63.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
151.0	63.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
152.0	64.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
153.0	64.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
154.0	64.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
155.0	64.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
156.0	65.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
157.0	65.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
158.0	65.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
159.0	66.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
160.0	67.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
161.0	67.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
162.0	68.6	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
163.0	69.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
164.0	70.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
165.0	71.5	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
166.0	72.6	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
167.0	73.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
168.0	75.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
169.0	76.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
170.0	78.3	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
171.0	80.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
172.0	82.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
173.0	84.2	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
174.0	86.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
175.0	89.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
176.0	91.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
177.0	94.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
178.0	98.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
179.0	101.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
180.0	105.8	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
181.0	110.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
182.0	115.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
183.0	121.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
184.0	127.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
185.0	134.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
186.0	143.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
187.0	152.7	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
188.0	163.9	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
189.0	177.0	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
190.0	193.1	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
191.0	213.4	0.500	0.250	1.000	1	0	WRIN	1560	Lic	RENSSELAER	IN
192.0	226.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
193.0	199.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
194.0	175.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
195.0	154.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
196.0	139.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
197.0	124.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
198.0	110.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
199.0	98.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
200.0	88.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
201.0	77.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
202.0	67.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
203.0	51.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
204.0	47.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
205.0	46.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
206.0	44.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
207.0	43.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
208.0	42.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
209.0	40.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
210.0	39.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
211.0	38.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
212.0	37.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
213.0	36.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
214.0	35.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
215.0	34.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
216.0	34.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
217.0	33.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
218.0	33.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
219.0	32.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
220.0	31.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
221.0	31.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
222.0	30.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
223.0	30.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
224.0	29.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
225.0	29.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
226.0	28.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
227.0	28.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
228.0	28.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
229.0	28.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
230.0	28.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
231.0	27.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
232.0	27.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
233.0	27.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
234.0	27.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
235.0	27.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
236.0	26.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
237.0	26.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
238.0	26.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
239.0	26.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
240.0	26.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
241.0	26.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
242.0	26.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
243.0	26.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
244.0	26.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
245.0	26.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
246.0	26.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
247.0	26.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
248.0	26.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
249.0	26.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
250.0	26.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
251.0	26.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
252.0	27.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
253.0	27.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
254.0	27.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
255.0	27.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
256.0	27.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
257.0	27.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
258.0	28.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
259.0	28.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
260.0	29.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
261.0	29.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
262.0	30.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
263.0	30.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
264.0	31.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
265.0	31.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
266.0	32.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
267.0	32.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
268.0	33.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
269.0	33.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
270.0	34.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
271.0	34.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
272.0	35.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
273.0	36.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
274.0	37.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
275.0	38.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
276.0	40.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
277.0	41.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
278.0	42.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
279.0	43.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
280.0	44.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
281.0	45.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
282.0	47.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
283.0	49.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
284.0	52.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
285.0	54.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
286.0	56.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
287.0	59.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
288.0	53.4	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
289.0	55.2	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
290.0	63.6	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
291.0	61.7	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
292.0	54.8	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
293.0	50.7	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
294.0	48.0	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
295.0	46.2	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
296.0	44.9	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
297.0	44.1	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
298.0	43.6	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
299.0	43.4	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
300.0	43.5	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
301.0	43.8	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
302.0	44.4	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
303.0	45.3	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
304.0	46.6	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
305.0	48.5	0.250	0.500	0.170	3	7	WKKD	1580	Lic	AURORA	IL
306.0	51.3	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
307.0	52.6	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
308.0	54.0	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
309.0	55.7	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
310.0	57.6	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
311.0	59.9	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
312.0	62.6	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
313.0	65.9	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
314.0	70.1	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
315.0	75.6	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
316.0	83.8	0.500	0.250	0.170	3	7	WKKD	1580	Lic	AURORA	IL
317.0	361.2	0.250	0.500	0.198	1	0	WSQR	1560	Lic	SYCAMORE	IL
318.0	380.3	0.500	0.250	0.198	1	0	WSQR	1560	Lic	SYCAMORE	IL
319.0	398.4	0.500	0.250	0.198	1	0	WSQR	1560	Lic	SYCAMORE	IL
320.0	409.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
321.0	402.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
322.0	395.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL

PHASETEK INC.

WBGX
FIGURE E1
CONTINUED

Daytime Permissible Horizontal Radiation

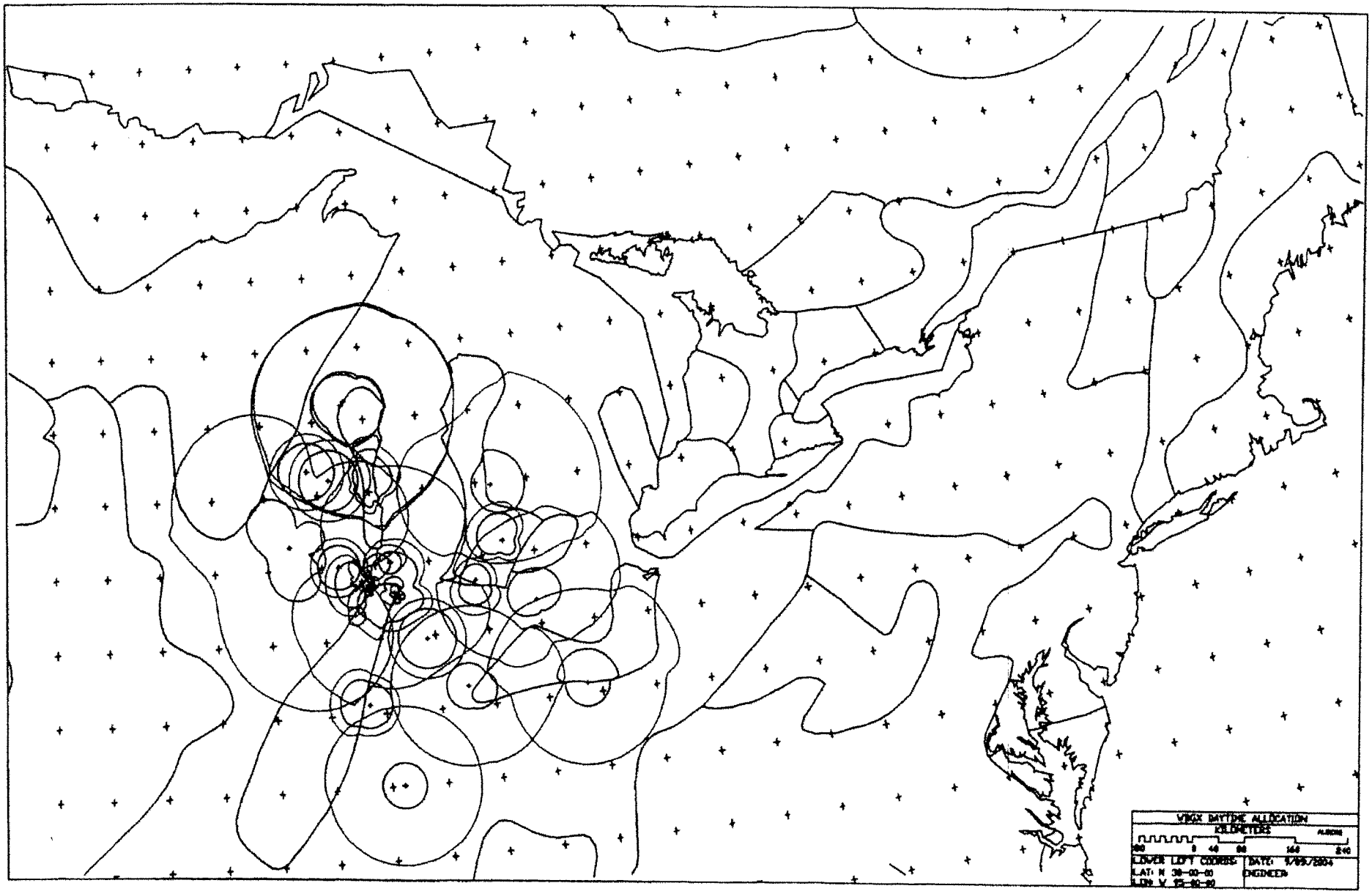
Title: WBGX daytime
Frequency: 1570 kHz
Database: FCC

Latitude: N 41° 36' 14.0"
Longitude: W 87° 40' 45.0"

*** Study site inside WBGX (Lic) 0.500 mV/m Contour ***
*** Study site inside WBGX (Lic) 0.025 mV/m Contour ***

Az. (deg)	Permis Rad. @ 1 km	Prop Cont. (mV/m)	Limiting station Cont. (mV/m)	Power (kW)	nT	nA	Call	Freq	Auth	City	St
323.0	387.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
324.0	380.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
325.0	375.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
326.0	369.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
327.0	364.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
328.0	359.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
329.0	355.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
330.0	352.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
331.0	349.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
332.0	346.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
333.0	343.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
334.0	342.2	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
335.0	341.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
336.0	340.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
337.0	339.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
338.0	339.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
339.0	339.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
340.0	340.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
341.0	341.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
342.0	342.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
343.0	343.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
344.0	346.6	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
345.0	349.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
346.0	352.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
347.0	356.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
348.0	359.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
349.0	365.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
350.0	370.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
351.0	375.7	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
352.0	381.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
353.0	388.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
354.0	396.9	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
355.0	405.0	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
356.0	413.3	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
357.0	424.8	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
358.0	436.4	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
359.0	448.1	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL
360.0	462.5	0.500	0.025	5.000	2	0	WFRL	1570	Lic	FREEPORT	IL

WBGX DAYTIME ALLOCATION



WBGX REV DAY
ANTENNA ARRAY PROGRAM

5000.0 WATTS 1570.0 KHZ.

TOWER	FIELD RATIO	PHASE DEGREES	SPACING DEGREES	BEARING DEGREES	HEIGHT DEGREES	TOP-LOADING DEGREES
1	1.000	.00	.00	.00	70.00	.00
2	.640	-89.00	209.00	136.10	70.00	.00
3	1.080	145.00	96.00	286.00	70.00	.00
4	.770	60.00	148.50	335.00	70.00	.00

RADIATION VALUES COMPUTED BELOW ARE AT A DISTANCE OF ONE KILOMETER

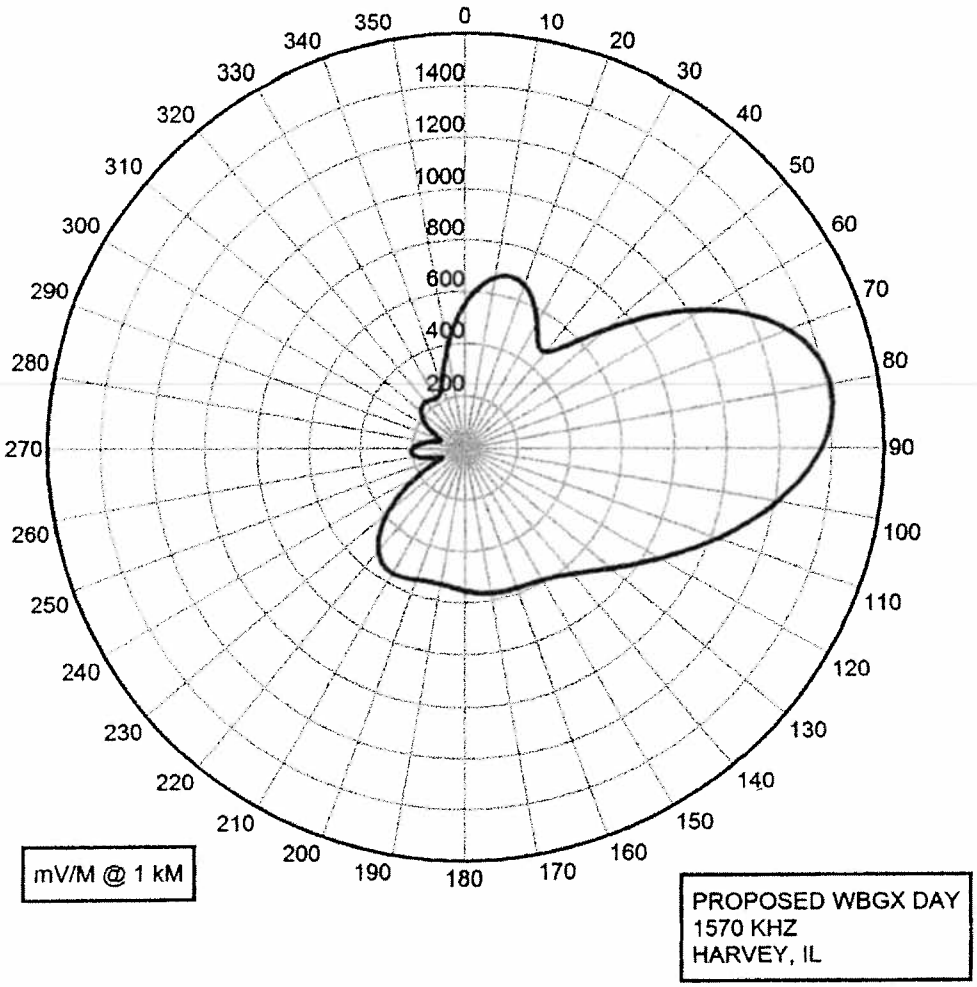
ERMS THEORETICAL	= 640.75 MV/M	ERMS STANDARD	= 671.45 MV/M
K NO LOSS	= 433.47 MV/M	K WITH LOSSES	= 417.79 MV/M
ERSS N0 LOSS	= 771.63 MV/M	ERSS WITH LOSSES	= 743.72 MV/M
GROUND LOSS	= 1.00 OHMS	GROUND LOSSES	= 382.34 WATTS
ARRAY Q	= 22.36	ERSS/ERMS	= 1.16

WBGXREVDAY

5000.0 WATTS 1570.0 KHZ.

STANDARD PATTERN RADIATION AT .0 DEGREES ELEVATION

BEARING DEGREES	FIELD MV/M	BEARING DEGREES	FIELD MV/M	BEARING DEGREES	FIELD MV/M	BEARING DEGREES	FIELD MV/M
.0	548.73	90.0	1357.12	180.0	551.61	270.0	201.43
5.0	615.25	95.0	1289.71	185.0	541.19	275.0	178.81
10.0	660.67	100.0	1206.86	190.0	534.29	280.0	144.14
15.0	677.80	105.0	1116.45	195.0	534.23	285.0	111.08
20.0	662.50	110.0	1024.96	200.0	541.26	290.0	101.11
25.0	615.94	115.0	937.22	205.0	551.08	295.0	123.19
30.0	548.67	120.0	856.49	210.0	555.78	300.0	159.21
35.0	487.67	125.0	784.86	215.0	546.56	305.0	193.28
40.0	479.03	130.0	723.63	220.0	516.47	310.0	218.18
45.0	556.35	135.0	673.57	225.0	462.31	315.0	231.29
50.0	702.14	140.0	635.01	230.0	385.52	320.0	233.00
55.0	876.85	145.0	607.66	235.0	292.28	325.0	226.96
60.0	1049.14	150.0	590.37	240.0	193.91	330.0	221.19
65.0	1198.31	155.0	580.97	245.0	112.33	335.0	228.02
70.0	1311.63	160.0	576.44	250.0	97.14	340.0	258.62
75.0	1382.86	165.0	573.43	255.0	141.46	345.0	314.57
80.0	1411.24	170.0	569.07	260.0	183.38	350.0	388.43
85.0	1400.42	175.0	561.71	265.0	204.15	355.0	469.89


0
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270
280
290
300
310
320
330
340
350
1400
1200
1000
800
600
400
200
mV/M @ 1 kM
PROPOSED WBGX DAY
1570 KHZ
HARVEY, IL

TABULATION OF FIELD INTENSITY MEASUREMENTS

WBGX 1570 KHZ

HARVEY, ILLINOIS

RADIAL 46.5 DEGREES TRUE

Point Number	Distance kM	Date/Time Local 4/6/2004	Field mV/m
1	1.19	1040	170.0
2	2.01	1035	71.0
3	3.06	1025	55.0
4	3.87	1015	37.0
5	4.44	1009	26.0
6	5.09	1002	23.0
7	5.66	958	24.0
8	6.85	950	12.0
9	7.73	939	10.1
10	8.83	933	9.5
11	12.10	925	7.1
12	14.10	920	4.2
13	16.00	909	3.1
14	17.00	905	3.2

TABULATION OF FIELD INTENSITY MEASUREMENTS

WBGX 1570 KHZ

HARVEY, ILLINOIS

RADIAL 55 DEGREES TRUE

Point Number	Distance kM	Date/Time Local 4/6/2005	Field mV/m
1	1.15	1441	150.0
2	2.09	1448	73.0
3	2.90	1500	35.0
4	4.35	1509	23.0
5	5.18	1519	15.0
6	6.10	1526	17.0
7	7.13	1531	9.1
8	7.91	1538	6.2
9	11.20	1545	3.1
10	12.20	1554	5.3
11	14.10	1602	3.2
12	14.90	1607	2.3
13	16.60	1616	1.1
14	17.30	1624	0.95

TABULATION OF FIELD INTENSITY MEASUREMENTS

WBGX 1570 KHZ

HARVEY, ILLINOIS

RADIAL 80 DEGREES TRUE

Point Number	Distance kM	Date/Time Local 4/6/2005	Field mV/m
1	0.95	1220	65.00
2	1.96	1226	22.00
3	2.80	1234	30.00
4	3.97	1240	13.00
5	4.91	1250	10.00
6	6.09	1258	6.00
7	6.84	1303	5.7
8	7.69	1310	4.9
9	8.90	1318	4.5
10	10.80	1325	4.1
11	11.90	1335	3.9
12	13.00	1340	2.7
13	14.00	1349	2.2
14	15.10	1400	1.80
15	16.20	1409	0.91
16	17.10	1425	0.82

TABULATION OF FIELD INTENSITY MEASUREMENTS

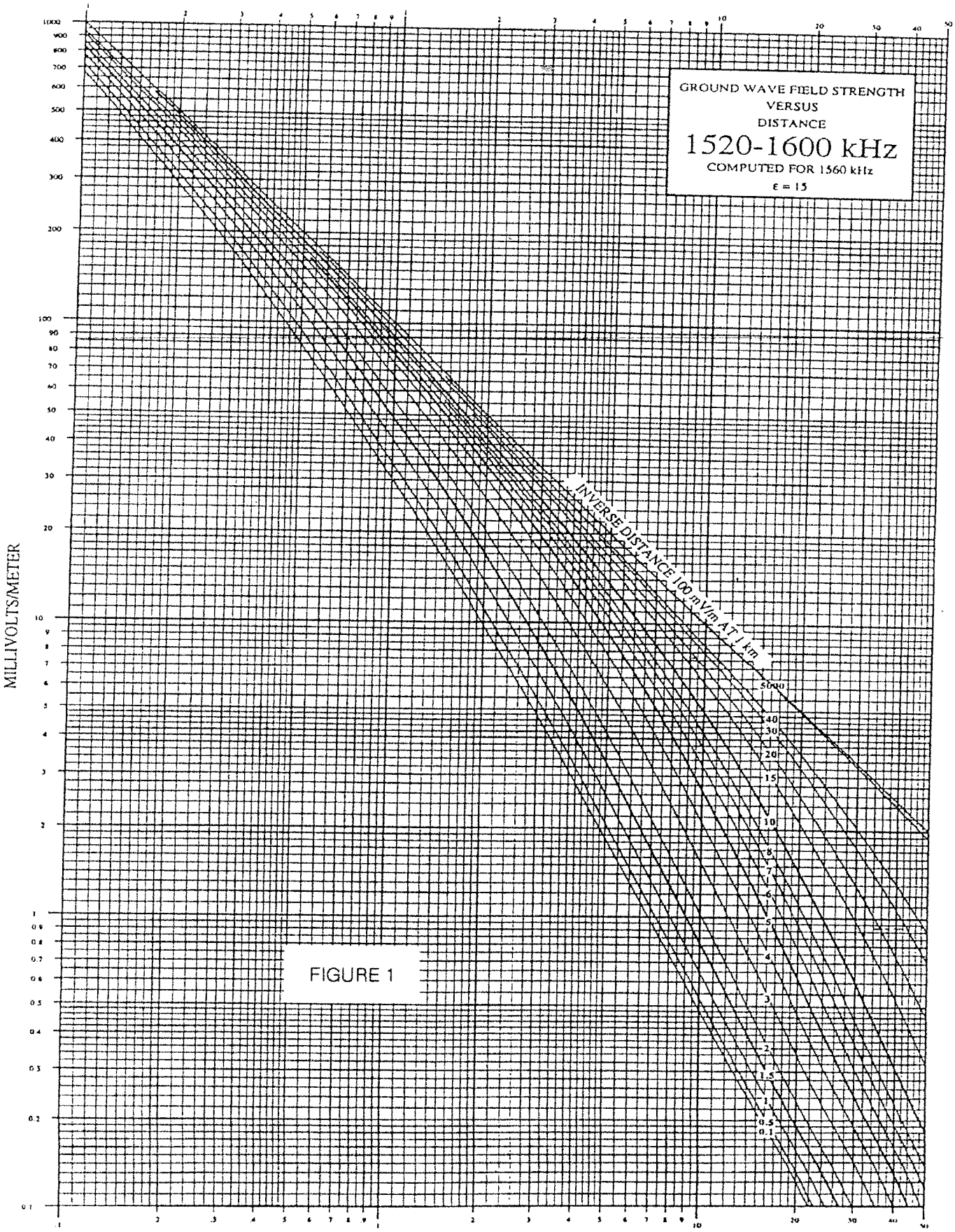
WFUR 1570 KHZ

GRAND RAPIDS, MICHIGAN

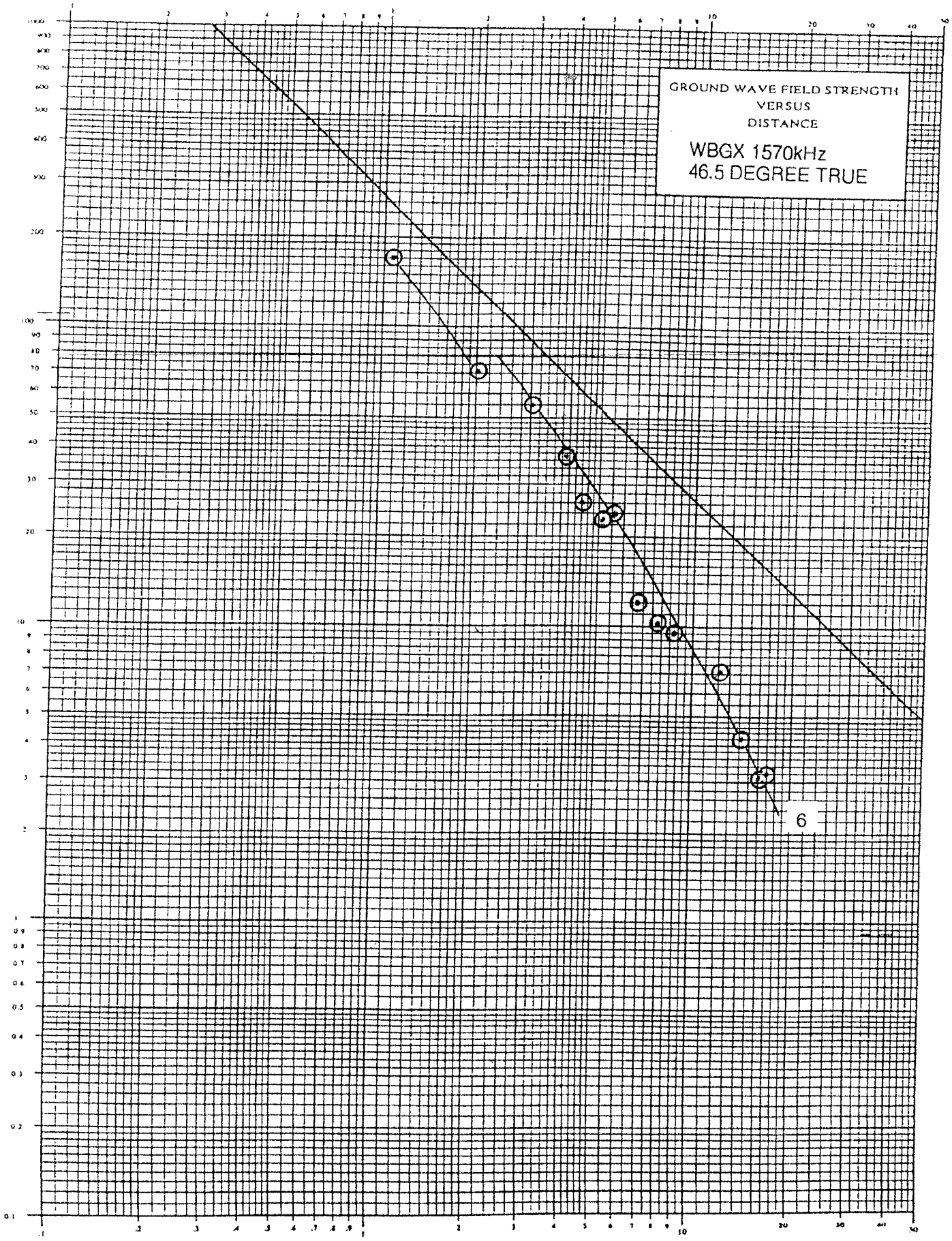
RADIAL 46.5 DEGREES TRUE

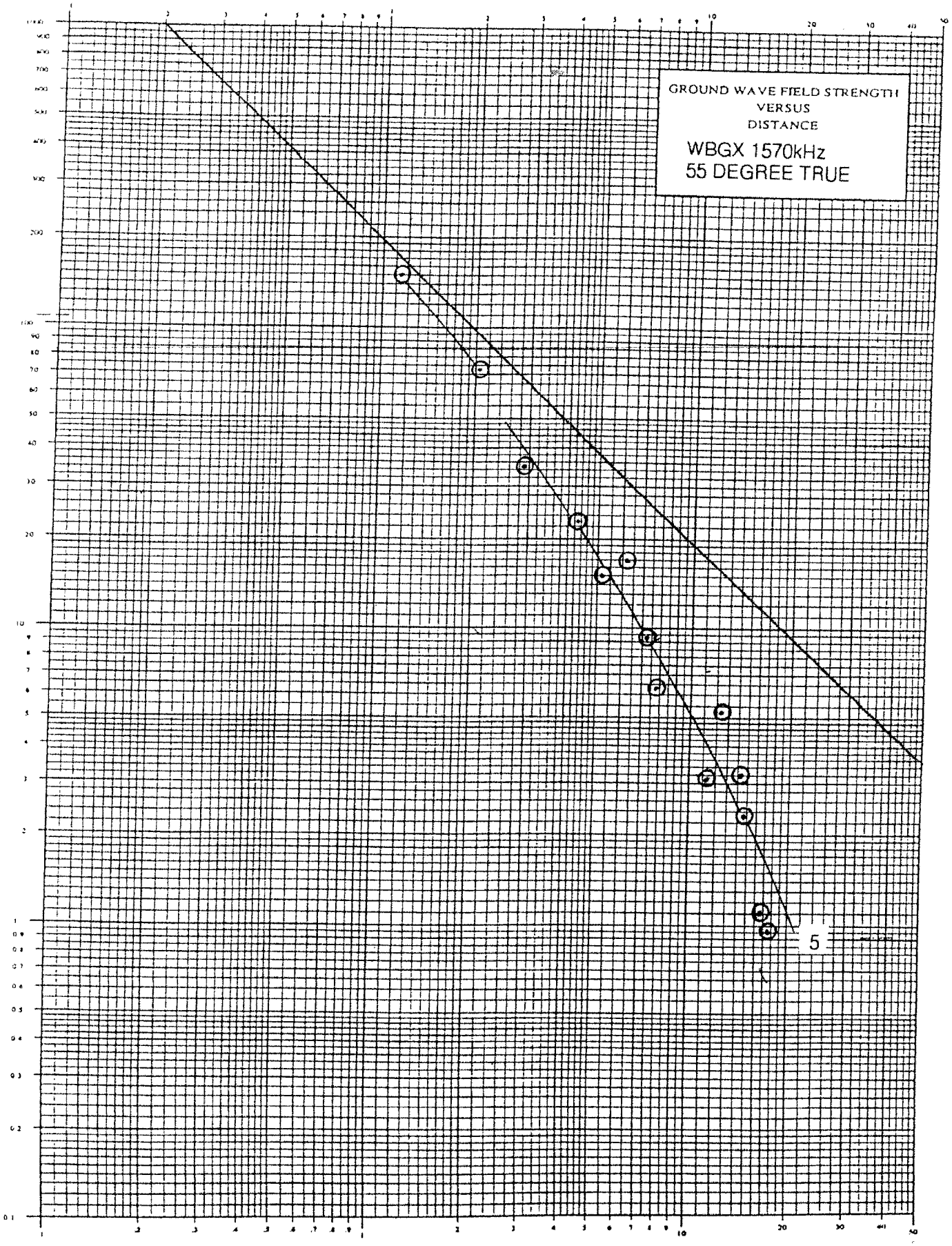
Point Number	(From WBGX) Distance kM	Date/Time Local	Field mV/m
		4/8/2005	
1	16.00	1020	0.013
2	17.00	1032	0.011
		4/22/2005	
3	172.00	937	0.095
4	173.00	1000	0.098
5	174.00	1015	0.10
6	176.00	1033	0.14
7	178.00	1040	0.19
8	179.00	1049	0.21
9	180.00	1055	0.17
10	181.00	1100	0.16
11	182.00	1105	0.18
12	183.00	1109	0.15
13	184.00	1116	0.19
14	185.00	1125	0.20
15	188.00	1132	0.24
16	190.00	1140	0.25
17	192.00	1159	0.36
18	194.00	1206	0.29
19	200.00	1215	0.41
20	202.00	1220	0.49
21	205.00	1237	0.47
22	206.00	1244	0.52
23	207.00	1258	0.59

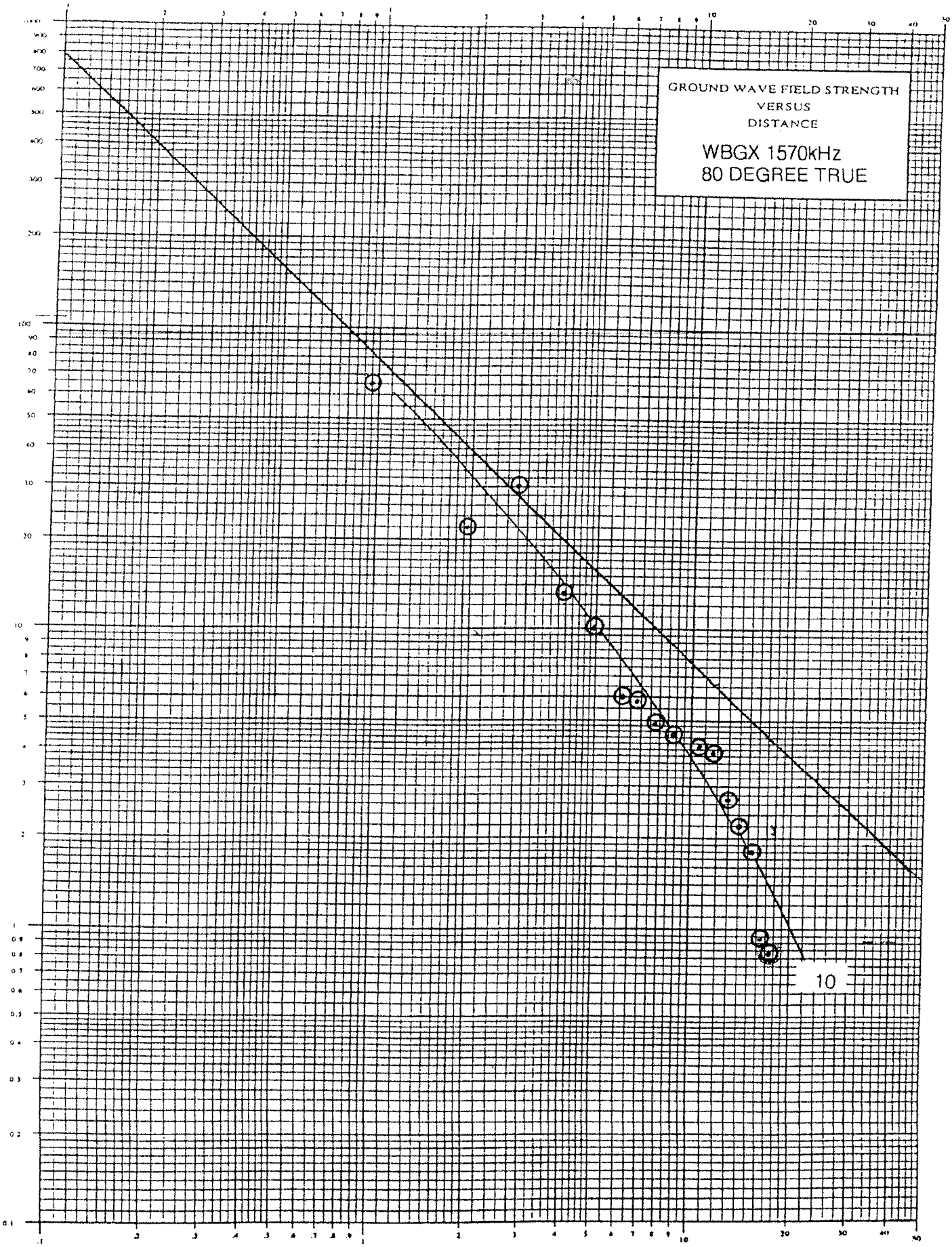
KILOMETERS FROM ANTENNA



KILOMETERS FROM ANTENNA
GRAPH 19-A


GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE
WBGX 1570kHz
46.5 DEGREE TRUE
6


GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE
WBGX 1570kHz
55 DEGREE TRUE
5


GROUND WAVE FIELD STRENGTH
VERSUS
DISTANCE
WBGX 1570kHz
80 DEGREE TRUE
10

FCC Geographic Market Definition for Waco, TX

Call Letters	AM/ FM	Freq	Type Station	Format	Home Market	Market Designtn Date	Home Mkt Rank		Owner	City & State of License	County of License
KBBW	AM	1010	C	Chrst/Talk	Waco, TX	07/02/2003	198		American Broadcasting of TX	Waco-Marlin, TX	Mc Lennan
WACO	FM	99.9	C	Country	Waco, TX	07/02/2003	198		Clear Channel Communications	Waco, TX	Mc Lennan
KBRQ	FM	102.5	C	Rock	Waco, TX	07/02/2003	198		Clear Channel Communications	Hillsboro, TX	Hill
KLRK	FM	92.9	C	AC	Waco, TX	07/02/2003	198		Simmons Media Group Inc	Marlin, TX	Falls
KBGO	FM	95.7	C	Oldies	Waco, TX	07/02/2003	198		Clear Channel Communications	Waco, TX	Mc Lennan
KWBU	FM	103.3	NC	NPR	Waco, TX	07/02/2003	198		Baylor University	Waco, TX	Mc Lennan
KWTX	AM	1230	C	Talk	Waco, TX	07/02/2003	198		Clear Channel Communications	Waco, TX	Mc Lennan
KWTX	FM	97.5	C	CHR	Waco, TX	07/02/2003	198		Clear Channel Communications	Waco, TX	Mc Lennan
KWGW	FM	104.9	C	Country	Waco, TX	01/05/2006	198		Simmons Media Group Inc	Mexia, TX	Limestone
KWOW	FM	104.1	C	Spanish	Waco, TX	07/02/2003	198		Border Media Partners LLC	Clifton, TX	Bosque
KHCK	FM	107.9	C	Span/Oldes	Waco, TX	07/02/2003	198	p	Univision	Robinson, TX	Mc Lennan
KBCT	FM	94.5	C	Country	Waco, TX	07/02/2003	198		Kennelwood Broadcasting Company	Waco, TX	Mc Lennan
KRZI	AM	1660	C	Sports	Waco, TX	07/02/2003	198		Simmons Media Group Inc	Waco, TX	Mc Lennan
KVLW	FM	88.1	NC	ChrsContem	Waco, TX	01/25/2005	198		Las Vegas Broadcasters	Waco, TX	Mc Lennan

Number of Stations in Geographic Market ~~14~~ 12

Previous Stations in Geographic Market

"C" - Commercial Station; "NC" - Non Commercial Station

"p" indicates pending sale to owner listed

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