

Exhibit 11 - Statement A  
**NATURE OF THE PROPOSAL**  
**ANTENNA SYSTEM DESCRIPTION**

prepared for  
**Great Lakes Radio-Chicago, LLC**  
WBGX Harvey, Illinois  
Facility Id 40147  
1570 kHz 1.5 kW-D 0.5 kW-N DA-2 U

**Nature of the Proposal**

Great Lakes Radio-Chicago, LLC (“*Great Lakes*”) is the licensee of Standard Broadcast Radio Station WBGX, 1570 kHz, Harvey, Illinois (Facility Id 40147). WBGX is presently licensed as a Class B station with authority to operate with 1.0 kW day and 0.5 kW night utilizing the same directional pattern. *Great Lakes* is also authorized to construct a new daytime facility and increase the operating power to 1.5 kW under Construction Permit BP-20041013ABG. The instant application proposes to modify the authorized daytime directional antenna pattern such that the existing towers can be utilized and no additional towers would need to be constructed. No changes are proposed to the licensed nighttime operations.

The proposed site is within 378 km of the Canadian border. The proposed facility will not impact any daytime Canadian AM station therefore coordination objections from Canada are not anticipated.

**Exhibit 11 – Figure 1** provides a horizontal radiation polar plot of the proposed standard pattern. **Exhibit 11 –Table I** also details the pattern parameters and provides a tabulation of the proposed standard pattern radiation values.

The instant proposal complies with Section 73.24(g). According to 2000 US Census data there are 77 people living within the 1,000 mV/m contour (see **Exhibit 14 – Figure 3A**). There are 458,204 persons within the 25 mV/m contour. This is less than 0.02% of the population within the 1,000 mV/m contour and clearly meets the requirements of Section 73.24(g) of the Rules.

**Antenna System Description**

The proposed facility will utilize existing towers. No change to the towers or ground system is proposed. For completeness, a property plat is shown in **Exhibit 11 – Figure 2** and an aerial photograph is included as **Exhibit 11 – Figure 2A**.

Exhibit 11 - Table I  
**PROPOSED ANTENNA PARAMETERS**  
 prepared for  
**Great Lakes Radio-Chicago, LLC**  
 WBGX(AM) Harvey, Illinois  
 Facility ID 40147  
 1570 kHz 1.5 kW-D 0.5 kW-N DA2-U

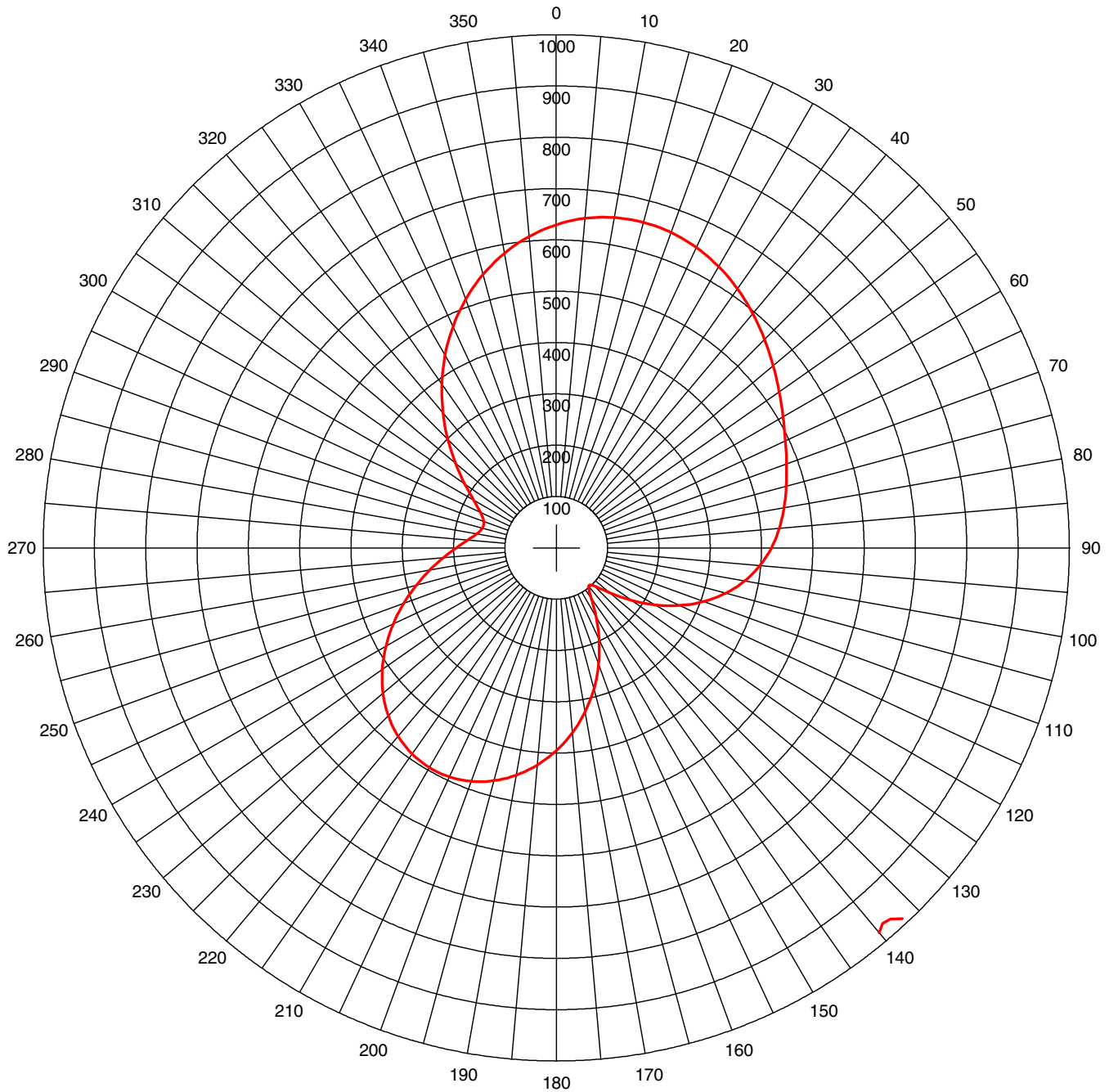
<b>Directional Antenna Parameters</b>					
<b><u>Tower Number</u></b>	<b><u>Field Ratio</u></b>	<b><u>Phase (deg)</u></b>	<b><u>Spacing (deg)</u></b>	<b><u>Bearing (deg)</u></b>	<b><u>Height (deg)</u></b>
1	0.395	167.8	0.0	0.0	86.5
2	1.000	0.0	90.0	185.0	86.5
3	1.190	184.1	180.0	185.0	86.5
4	1.067	39.4	144.0	162.0	86.5

<b><u>Power (kW)</u></b>	<b><u>Theoretical RMS (mV/m)</u></b>	<b><u>Standard RMS (mV/m)</u></b>	<b><u>Q Factor (mV/m)</u></b>
1.5	399.56	419.82	14.51

<b>Modified Standard Radiation Pattern – Horizontal Plane</b>							
<b><u>Azimuth (Deg)</u></b>	<b><u>Field (mV/m)</u></b>	<b><u>Azimuth (Deg)</u></b>	<b><u>Field (mV/m)</u></b>	<b><u>Azimuth (Deg)</u></b>	<b><u>Field (mV/m)</u></b>	<b><u>Azimuth (Deg)</u></b>	<b><u>Field (mV/m)</u></b>
0	629.56	90	419.40	180	395.39	270	194.83
5	644.51	95	398.44	185	424.95	275	173.24
10	653.54	100	372.67	190	449.88	280	157.32
15	656.64	105	341.71	195	469.70	285	148.97
20	653.98	110	305.73	200	483.96	290	150.37
25	645.91	115	265.42	205	492.29	295	162.89
30	633.00	120	222.07	210	494.38	300	186.05
35	616.04	125	177.77	215	490.11	305	217.93
40	596.05	130	136.30	220	479.51	310	256.20
45	574.24	135	105.36	225	462.87	315	298.66
50	551.91	140	97.93	230	440.71	320	343.39
55	530.32	145	118.51	235	413.84	325	388.75
60	510.49	150	155.25	240	383.30	330	433.34
65	492.97	155	197.82	245	350.33	335	475.96
70	477.73	160	241.48	250	316.30	340	515.59
75	464.09	165	284.05	255	282.57	345	551.38
80	450.82	170	324.38	260	250.39	350	582.65
85	436.43	175	361.69	265	220.85	355	608.85

# AM Directional Pattern

True North



— Pattern (mV/m @ 1km)

Theo RMS: 399.219 mV/m @ 1 km

Std RMS: 419.442 mV/m @ 1 km

Aug RMS: mV/m @ 1 km

Q: 14.106 mV/m @ 1 km

Horizontal Plane Standard Pattern

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.395	167.8	0.0	0.0	86.5	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	90.0	185.0	86.5	0	0	0.0	0.0	0.0	0.0
3	1.190	184.1	180.0	185.0	86.5	0	0	0.0	0.0	0.0	0.0
4	1.067	39.4	144.0	162.0	86.5	0	0	0.0	0.0	0.0	0.0

## EXHIBIT 11 - FIGURE 1 PROPOSED DAYTIME RADIATION PATTERN PLOT

prepared July 2007 for  
**Great Lakes Radio-Chicago, LLC**  
 WBGX(AM) Harvey, Illinois  
 Facility ID 40147  
 1570 kHz 1.5 kW-D 0.5 kW-N DA-2 U

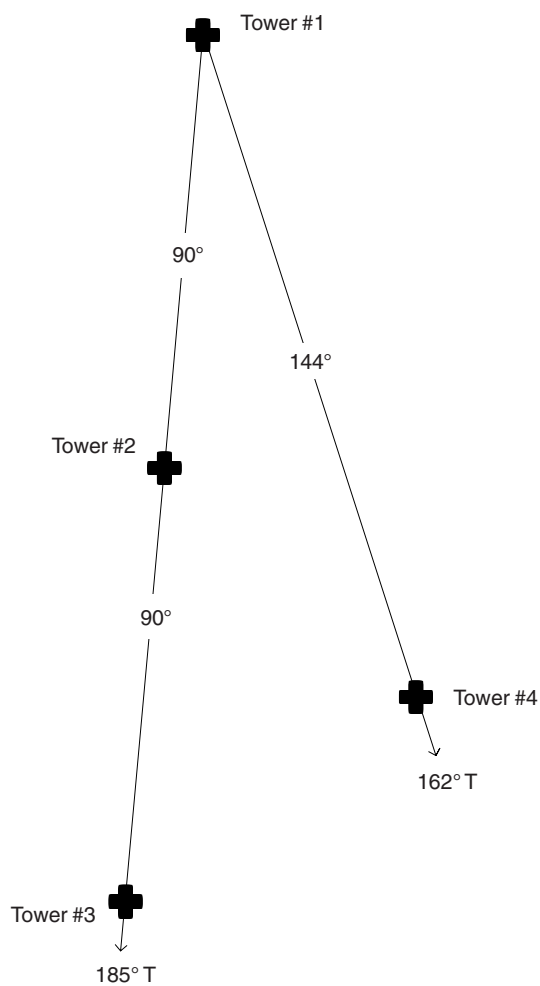
Cavell, Mertz & Associates, Inc.  
 Manassas, Virginia



**EXHIBIT 11 - FIGURE 2**  
**ANTENNA SYSTEM PLOT**

prepared July 2007 for  
**Great Lakes Radio-Chicago, LLC**  
WBGX(AM) Harvey, Illinois  
Facility ID 40147  
1570 kHz 1.5 kW-D 0.5 kW-N DA-2 U

Cavell, Mertz & Associates, Inc.  
Manassas, Virginia



Property boundaries extend beyond this tower diagram.



**EXHIBIT 11 - FIGURE 2A  
AERIAL PHOTO**

prepared July 2007 for  
**Great Lakes Radio-Chicago, LLC**  
WBGX(AM) Harvey, Illinois  
Facility ID 40147  
1570 kHz 1.5 kW-D 0.5 kW-N DA-2 U

Cavell, Mertz & Associates, Inc.  
Manassas, Virginia