



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

KIMTRON, INC.
POST OFFICE BOX 3003
BLUE BELL PA 19422

Ann Gallagher
Senior Engineer
Audio Division
Media Bureau

Facility Id: 74245

Call Sign: WXJC

License File Number: BMML-20110803ACB

Grant Date: September 27, 2011

This license expires 3:00 a.m.
local time, April 01, 2012.

This authorization re-issued 12/8/2011 to add a special operating condition permitting use of modulation-dependent carrier level control technology.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:
Local Standard Time (Non-Advanced)

Jan.	6:45 AM	5:00 PM	Jul.	4:45 AM	7:00 PM
Feb.	6:30 AM	5:30 PM	Aug.	5:15 AM	6:30 PM
Mar.	6:00 AM	6:00 PM	Sep.	5:30 AM	6:00 PM
Apr.	5:15 AM	6:15 PM	Oct.	5:45 AM	5:15 PM
May	4:45 AM	6:45 PM	Nov.	6:15 AM	4:45 PM

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Jun. 4:30 AM

7:00 PM

Dec. 6:45 AM

4:45 PM

Name of Licensee: KIMTRON, INC.

Station Location: BIRMINGHAM, AL

Frequency (kHz): 850

Station Class: B

Antenna Coordinates:

Day

Latitude: N 33 Deg 37 Min 25 Sec

Longitude: W 86 Deg 44 Min 45 Sec

Night

Latitude: N 33 Deg 37 Min 25 Sec

Longitude: W 86 Deg 44 Min 45 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 50.0 Night: 1.0

Antenna Input Power (kW): Day: 52.7 Night: 1.1

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 32.44 Night: 4.65

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1053113	
3	1053115	
4	1053116	
5	1053117	

Night:

Tower No.	ASRN	Overall Height (m)
1	1053113	
2	1053114	
3	1053115	
4	1053116	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2132.38 Night: 280.51

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 2263.5 Night: 311.8

Q Factor: Day: 70.711 Night: 10

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	109.0
3	0.2800	-143.000	152.2000	243.700	0	109.0
4	0.3900	-75.000	115.0000	141.000	0	109.0
5	0.1100	142.000	152.2000	243.700	1	109.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	26.0	49.0	1689.81
2	50.5	49.0	2540.16
3	75.0	42.0	2976.18
4	96.0	42.0	2811.48
5	117.5	43.0	2247.51
6	170.0	50.0	2650.22
7	195.0	30.0	3282.42
8	261.0	51.0	1971.45
9	310.0	40.0	1287.48
10	347.0	74.0	965.61

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	109.0
2	1.0000	26.000	210.0000	96.000	0	109.0
3	1.0000	93.000	115.0000	321.000	1	109.0

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
4	1.0000	67.000	210.0000	276.000	1	109.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	0.0	24.0	175.39
2	13.0	26.0	241.63
3	26.0	24.0	257.93
4	38.0	24.0	207.30
5	50.0	24.0	77.89
6	62.5	25.0	169.34
7	75.0	21.0	292.29
8	85.5	21.0	365.90
9	96.0	21.0	394.39
10	117.5	43.0	289.31
11	139.0	31.0	69.20
12	139.0	10.0	88.51
13	154.5	31.0	290.23
14	170.0	10.0	559.12
15	175.0	10.0	629.01
16	240.0	21.0	198.83
17	250.5	21.0	77.89
18	261.0	14.0	24.14
19	261.0	10.0	35.41
20	268.0	14.0	16.09
21	268.0	10.0	24.14
22	280.0	24.0	19.31
23	299.0	37.0	17.70
24	317.5	37.0	14.48
25	317.5	10.0	20.60
26	336.0	24.0	28.97
27	336.0	10.0	43.45
28	348.0	24.0	84.12

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 143.7	0.113
2	
3 -75.4	0.388
4 -143.3	0.279
5 0	1

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 26.3	0.9
3 93.7	0.989
4 67.5	0.989
5	

Antenna Monitor: POTOMAC INSTRUMENTS 1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
139	4.54	236.9
290	5.47	130
310	3.22	294.9
347	4.99	71.9

Special operating conditions or restrictions:

- 1 The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Special operating conditions or restrictions:

2 Monitoring Point Locations (Day):

Direction of 139° true North. From 60 Roebuck Drive, Birmingham AL 35215, go into the Church parking lot then proceed south on the small access road approximately 120 feet. NAD83 GPS Coordinates: N33°35'33"/W86°42'48"

Direction of 290° true North. From 705 Peterson Road, Gardendale, AL 35071, go into the grassy lot just to the south of the house. NAD83 GPS Coordinates: 33°38'30"/W86°48'09"

Direction of 310° true North. From the intersection of New Castle Road and Cherry Street walk north across New Castle, away from Cherry Street. NAD83 GPS Coordinates: N33°38'35"/W86°46'23"

Direction of 347° true North. From intersection of New Castle Road and Paradise Valley Road walk west approximately 100 feet from intersection. NAD83 GPS Coordinates: 33°40'04"/W86°45'30"

- 3 Ground system consists of 120 equally spaced, buried copper radials about the base of each tower, each 106.7 meters in length except where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus a copper ground screen 14.63 meters square, about the base of each tower.

- 4 Nighttime: The licensee shall perform the measurements described in Section 73.155 at least once within each 24-month period.

*** END OF AUTHORIZATION ***