



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

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COX RADIO, INC.  
 1611 SOUTH MAIN STREET  
 DAYTON OH 45409

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Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau

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Facility Id: 14244

Call Sign: WHIO

License File Number: BL-20011217ABZ

Grant Date: July 16, 2002

This license expires 3:00 a.m.  
 local time, October 01, 2004.

This license covers Permit No.: BP-20011214ALC

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.	8:00 AM	5:30 PM	Jul.	5:15 AM	8:00 PM
Feb.	7:30 AM	6:15 PM	Aug.	5:45 AM	7:30 PM
Mar.	6:45 AM	6:45 PM	Sep.	6:15 AM	6:45 PM
Apr.	6:00 AM	7:15 PM	Oct.	6:45 AM	6:00 PM
May	5:30 AM	7:45 PM	Nov.	7:15 AM	5:15 PM
Jun.	5:00 AM	8:00 PM	Dec.	7:45 AM	5:15 PM

Callsign: WHIO

License No.: BL-20011217ABZ

Name of Licensee: COX RADIO, INC.

Station Location: DAYTON, OH

Frequency (kHz): 1290

Station Class: B

Antenna Coordinates:

Day

Latitude: N 39 Deg 40 Min 44 Sec

Longitude: W 84 Deg 07 Min 49 Sec

Night

Latitude: N 39 Deg 40 Min 44 Sec

Longitude: W 84 Deg 07 Min 49 Sec

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

Nominal Power (kW): Day: 5.0 Night: 5.0

Antenna Input Power (kW): Day: 5.0 Night: 5.4

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 3.73 Night: 8.78

Resistance (ohms): Day: 359 Night: 70

Non-Directional Antenna: Day

Radiator Height: 89.3 meters; 138 deg

Theoretical Efficiency: 339.57 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1011735	

Night:

Tower No.	ASRN	Overall Height (m)
1	1011735	
2	1011736	
3	1011737	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 751.56  
 Standard RMS (mV/m/km):  
 Augmented RMS (mV/m/km): Night: 873.89  
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.9020	-151.000	0.0000	0.000	0	138.0
2	1.0000	0.000	90.0000	173.800	0	138.0
3	0.9020	151.300	90.0000	173.800	1	138.0

\* 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	12.0	36.0	1592.40
2	30.0	36.0	1222.60
3	48.5	37.0	690.88
4	67.0	37.0	74.03
5	67.0	10.0	112.65
6	92.5	25.0	751.21
7	105.0	25.0	813.10
8	117.5	25.0	691.29
9	130.0	24.0	443.68
10	142.0	24.0	180.25
11	154.0	20.0	96.56
12	164.0	20.0	123.92
13	174.0	19.0	160.93
14	183.5	19.0	148.06
15	193.0	19.0	140.01
16	209.0	32.0	326.62
17	226.0	34.0	660.78
18	243.0	34.0	784.01
19	263.0	39.0	616.09
20	282.5	35.0	112.65
21	300.0	34.0	717.94
22	317.0	34.0	1252.47

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
23	335.5	37.0	1601.84
24	354.0	36.0	1718.62

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-151	0.88
2	0	1
3	151.3	0.894

Antenna Monitor: POTOMAC INSTRUMENTS MODEL 1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
67	2.09	48
154	2.67	20.16
193	2.53	31
282.5	3.2	30.9

Special operating conditions or restrictions:

1 DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Three vertical, self-supporting, series-excited, insulated tapered, steel radiators of uniform cross section.

Non-Directional Antenna: North tower used RMS: 339.57 mV/m.

Ground System consists of 120 equally spaced buried radials 64 m long under each tower, plus 32' x 32' ground screen.

2 DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 67° True North. From the transmitter site, go east 0.40 mile to Wilmington Avenue. Turn left and drive 0.35 mile to bear right on Woodman Drive 0.30 mile, turn right on East Stroop Road, and drive 0.85 mile to Wagner Road. Turn right and drive 0.2 mile to Fantano Avenue. Turn left, drive 0.2 mile to San Marino Street. Turn left and go approximately 0.05 mile to the monitoring point on the side-walk in front of #4082 San Marino Street. The distance to the point is 1.30 miles. The field intensity measured at this point should not exceed 48 mV/m.

## Special operating conditions or restrictions:

- 3 Direction of 154° True North. From the transmitter site, go east 0.25 mile to Bigger Road. Turn right and drive south 1.20 miles to Whipp Road. Continue south on Bigger Road, another 0.13 mile and turn left on Andrew Road. Drive 0.4 mile east on Andrew Road to Overbrook Road. Turn right and drive 0.3 mile to Arlmont Circle. Turn right drive 0.05 mile, then left on Montbello Circle. The monitoring point is approximately 150 feet from the street intersection opposite #2501 Montbello Circle. The distance to the point is 1.66 miles. The field intensity measured at this point should not exceed 20.16 mV/m.

Direction of 193° True North. From the transmitter site, go east 0.25 mile to Bigger Road. Turn right and drive south 1.20 miles to Whipp Road. Turn right and drive approximately 0.6 mile to point where Newitt Avenue joins Whipp Road. Just beyond this point, turn left on Millshire Drive, and go south approximately 0.1 mile to the monitor point on the sidewalk of the northwest corner of the junction of Millshire Drive with Healthshire Drive. The distance to the point is 1.57 miles. The field intensity measured at this point should not exceed 31 mV/m.

Direction of 282.5° True North. From the transmitter site go west on East Davis Road (formerly Hempstead Road) approximately 2.0 miles to Far Hills Avenue. Turn right and drive 0.15 mile to Shroyer Road. Turn right and go 0.05 mile and turn left on Leshner Drive. Drive approximately 0.1 mile to the monitor point on the sidewalk next to #4241 Leshner Drive opposite Brenau Avenue. The distance to the point is 2.0 miles. The field intensity measured at this point should not exceed 30.9 mV/m.

\*\*\* END OF AUTHORIZATION \*\*\*