



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

Authorizing Official:

Official Mailing Address:

ICS COMMUNICATIONS, INC.  
P.O. BOX 102  
POWELL OH 43065

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 22341

Call Sign: WWCD

License File Number: BL-20070615ADX

Grant Date: September 12, 2007

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

This license covers permit no.: BMP-20070615ABS

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	6:00 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	5:15 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: WWCD

License No.: BL-20070615ADX

Name of Licensee: ICS COMMUNICATIONS, INC.

Station Location: COLUMBUS, OH

Frequency (kHz): 1580

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 03 Min 42 Sec

Longitude: W 82 Deg 56 Min 41 Sec

Night

Latitude: N 40 Deg 03 Min 42 Sec

Longitude: W 82 Deg 56 Min 41 Sec

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

Nominal Power (kW): Day: 3.2 Night: 0.29

Antenna Input Power (kW): Day: 3.45 Night: 0.31

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 8.31 Night: 2.5

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	
1	None	48.3
2	None	48.3

Night:

Tower No.	ASRN	
1	None	48.3
2	None	48.3
3	None	48.3

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 553.19 Night: 161.56

Standard RMS (mV/m/km): Day: 581.15

Augmented RMS (mV/m/km): Night: 170.32

Q Factor: Day: Night:

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	90.0
2	0.4300	-88.400	90.0000	102.000	0	90.0

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

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	90.0
2	1.7000	292.000	135.0000	194.000	0	90.0
3	0.7400	220.000	270.0000	195.000	0	90.0

\* 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	15.0	20.0	16.90
2	39.5	20.0	12.30
3	195.0	20.0	200.00
4	350.5	20.0	18.90

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	-87.1	0.388

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
2 85	0.628
3 0	1
4 -61	0.333

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)
102	4.67	80.79
282	4.24	34.9

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
39.5	3.46	2.15
195	3.97	28.79
350.5	3.61	2.33

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 Location of Monitor Points:

Direction of 39.5° true North. Proceed on Paris Blvd to Madrid Drive. Turn right onto Madrid Drive. Drive east 0.1 kilometers to intersection with Copenhagen Drive. Monitor point is located on sidewalk next to street sign.

Direction of 102° true North. From transmitter building, drive south 150 meters to Morse Road. Turn left onto Morse Road. Drive east 4.7 kilometers to North Stygler Road. Turn right onto Stygler Road. Drive south 0.42 kilometers to Monitor Point located on west side of road in between the two widest spaced trees in small grove adjacent to fence.

Direction of 195° true North. From transmitter building, drive south 150 meters to Morse Road. Turn left onto Morse Road. Drive east 0.8 kilometers to Westerville Road (SR 3). Turn right onto Westerville Road. Drive southwest 3.7 kilometers to Agler Road. Turn left onto Agler Road. Drive east 0.29 kilometers to Monitor Point located on sidewalk by sign at southeast corner of intersection of Agler Road and Linview Avenue.

Direction of 282° true North. Monitor Point located next to green metal post at 885 Freeway Drive.

Direction of 350.5° true North. Monitor Point is located in front of 2436 Laurelwood Drive.

- 3 Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 47.4 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers.
- 4 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.

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