



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

Authorizing Official:

Official Mailing Address:

HOOSIER AM/FM, LLC  
550 COCHITUATE ROAD  
SUITE 25  
FRAMINGHAM MA 01701

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 41849

Call Sign: WIOU

Grant Date: May 16, 2006

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

License File Number: BZ-20050406ADO

This authorization re-issued to correct the average hours of sunrise and sunset. HKC 6/16/2006.

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

Name of Licensee: HOOSIER AM/FM, LLC

Station Location: KOKOMO, IN

Frequency (kHz): 1350

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 25 Min 00 Sec

Longitude: W 86 Deg 06 Min 49 Sec

Night

Latitude: N 40 Deg 25 Min 00 Sec

Longitude: W 86 Deg 06 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: 1.0

Antenna Input Power (kW): Day: 5.4 Night: 1.08

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 8.78 Night: 3.93

Resistance (ohms): Day: 70 Night: 70

Antenna Registration Number(s):

Day:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1031394 |                    |
| 2         | 1031395 |                    |
| 3         | 1031396 |                    |
| 4         | 1031397 |                    |

Night:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1031394 |                    |
| 2         | 1031395 |                    |
| 3         | 1031396 |                    |
| 4         | 1031397 |                    |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 675.92 Night: 337.96

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 710.57 Night: 356.31

Q Factor: Day: 24.6 Night: 24.43

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                  | 99.0          |
| 2         | 1.9800      | 135.000        | 90.0000        | 175.000            | 0                  | 99.0          |
| 3         | 1.4500      | -90.000        | 180.0000       | 175.000            | 0                  | 99.0          |
| 4         | 0.4200      | 45.000         | 270.0000       | 175.000            | 0                  | 103.2         |

\* 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       | 78.5                     | 25.0        | 180.25                                     |
| 2       | 265.0                    | 30.0        | 107.83                                     |
| 3       | 283.0                    | 36.0        | 370.15                                     |

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                  | 99.0          |
| 2         | 1.9000      | 175.000        | 90.0000        | 175.000            | 0                  | 99.0          |
| 3         | 1.6900      | -29.000        | 90.0000        | 175.000            | 1                  | 99.0          |
| 4         | 0.8500      | 136.500        | 90.0000        | 175.000            | 1                  | 103.2         |

\* 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       | 47.5                     | 10.0        | 228.25                                     |
| 2       | 78.5                     | 10.0        | 46.19                                      |

Augmentation Parameters:

| Aug<br>No. | Central<br>Azimuth<br>(Deg. T) | Span<br>(Deg.) | Radiation<br>at Central Azimuth<br>(mV/m @ 1 km) |
|------------|--------------------------------|----------------|--------------------------------------------------|
| 3          | 91.0                           | 10.0           | 95.19                                            |
| 4          | 275.0                          | 10.0           | 55.44                                            |
| 5          | 283.0                          | 10.0           | 54.83                                            |

Day Directional Operation:

| Twr. Phase<br>No. (Deg.) | Antenna Monitor<br>Sample Current Ratio |
|--------------------------|-----------------------------------------|
| 1 -135                   | 0.52                                    |
| 2 0                      | 1                                       |
| 3 138                    | 1.06                                    |
| 4 -93                    | 0.34                                    |

Night Directional Operation:

| Twr. Phase<br>No. (Deg.) | Antenna Monitor<br>Sample Current Ratio |
|--------------------------|-----------------------------------------|
| 1 -172                   | 0.78                                    |
| 2 0                      | 1                                       |
| 3 146                    | 1.16                                    |
| 4 -41                    | 0.34                                    |

Antenna Monitor: POTOMAC INSTRUMENT AM-19(204)

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

| Radial<br>(Deg. T) | Distance From Transmitter<br>(kM) | Maximum Field Strength<br>(mV/m) |
|--------------------|-----------------------------------|----------------------------------|
| 144                | 1.69                              | 27.92                            |
| 175                | 2.99                              | 35.6                             |
| 225                | 8.21                              | 3.61                             |

Night Operation:

| Radial<br>(Deg. T) | Distance From Transmitter<br>(kM) | Maximum Field Strength<br>(mV/m) |
|--------------------|-----------------------------------|----------------------------------|
| 47.5               | 7.4                               | 23                               |
| 78.5               | 6.76                              | 4.6                              |
| 91                 | 2.09                              | 29.21                            |
| 179                | 2.9                               | 39                               |
| 198                | 3.06                              | 33                               |
| 283                | 2.66                              | 15.6                             |

## Special operating conditions or restrictions:

## 1 DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: four (4) uniform cross-section, vertical, guyed, series excited, steel base insulated radiators. Tower #4 supports a communications type antenna extending 9' above the top. No. 2 supports a side mounted FM antenna at the 182' level.

Ground System consists of 120 equally spaced buried copper radials about the base of each tower 182 feet in length. plus a 48' X 48" ground screen about the base of each tower.

## DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 144 True North. Begin 1 mile south of WIOU site at intersection of Highway U.S. 31 and Road 500S. Drive 1 mile to intersection of roads 100E and 500S, then continue east 0.35 mile to point. Measure at center of road. The field intensity measured at this point should not exceed 27.92 mV/m, day.

Direction of 175 True North. Begin at MP 144, return west to road intersection 100E and 300S. turn south on road 100E, drive 1.0 mile to road 600S, turn west 0.15 mile to point. Measure at center of road. The field intensity measured at this point should not exceed 35.6 mV/m, day.

Direction of 235 True North. Begin at MP 175, drive west 3.0 miles beyond US 31 intersection to N-S road intersection turn south 1.0 mile to west road intersection, near large ditch, turn west on road 0.15 mile to point. Measure at north side of road. The field intensity measured at this point should not exceed 3.61 mV/m, day.

Direction of 47.5 True North. From centerline of towers on State Road 26, go east 3.3 miles to County Road 400-E. Go north 3.0 miles to road 100-S. Monitor point is at end of drive 0.25 mile east of road. 400-E. This is 4.6 miles from array. The field intensity measured at this point should not exceed 23.0 mV/m, night.

Direction of 78.5 True North. From centerline of towers on State Road 26, go east 4.35 miles to State road 19. Go north 0.75 mile. Monitor point is 5 feet west of pavement opposite concrete quarter-mile line marker. This is 4.2 miles from the array. The field intensity measured at this point should not exceed 4.6 mV/m, night.

Direction of 91 True North. From centerline of towers on State Road 26, go east 1.3 miles to County Road 200-E. go south 377 feet. Monitor point is middle of road opposite 2nd Indiana Bell Telephone Terminal Post. This is 1.25 mile from the array. The field intensity measured at this point should not exceed 29.21 mV/m, night.

Direction of 179 True North. From centerline of towers on State Road 26, go east 0.3 miles to County Road 100-E. Turn south and go 2.0 miles to the 2nd intersection. Turn west 0.25 mile. Monitor point is in middle of road. This is 1.8 miles from the array. The field intensity measured at this point should not exceed 39.0 mV/m, night.

Direction of 198 True North. From centerline of towers on State Road 26, go west 0.75 miles to Highway US-31. Turn south and go 2.0 miles to second intersection. Monitor point is 130 feet south of intersection on US 31 and 5 feet west of pavement. This is 1.9 miles from the array. The field intensity measured at this point should not exceed 33.0 mV/m, night.

Special operating conditions or restrictions:

- 2 Direction of 283 True North. From centerline of towers on State Road 26, go west 1.75 miles to County Road 100-W. Go north 0.25 miles. Monitor point is in middle of road opposite quarter-mile-line fence. This is 1.65 miles from the array. The field intensity measured at this point should not exceed 15.6 mV/m, night.

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