



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

Authorizing Official:

Official Mailing Address:

M&M BROADCASTING, INC.

P.O. BOX 31

1610 N LINCOLN

KNOXVILLE IA 50138

Son Nguyen

Supervisory Engineer

Audio Division

Media Bureau

Facility Id: 52314

Call Sign: KDLS

License File Number: BL-12903

Grant Date:

This license expires 3:00 a.m.  
 local time, February 01, 2005.

regenerated 1/23/2001 in cdb's to allow for creation of BZ app

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. | 7:45 AM | 5:15 PM | Jul. | 5:00 AM | 7:45 PM |
| Feb. | 7:15 AM | 5:45 PM | Aug. | 5:15 AM | 7:15 PM |
| Mar. | 6:30 AM | 6:15 PM | Sep. | 6:00 AM | 6:30 PM |
| Apr. | 5:45 AM | 7:00 PM | Oct. | 6:30 AM | 5:30 PM |
| May  | 5:00 AM | 7:30 PM | Nov. | 7:00 AM | 5:00 PM |
| Jun. | 4:45 AM | 8:00 PM | Dec. | 7:30 AM | 4:45 PM |

Callsign: KDLS

License No.: BL-12903

Name of Licensee: M&M BROADCASTING, INC.

Station Location: PERRY, IA

Frequency (kHz): 1310

Station Class: B

Antenna Coordinates:

Day

Latitude: N 41 Deg 49 Min 58 Sec

Longitude: W 94 Deg 02 Min 15 Sec

Night

Latitude: N 41 Deg 49 Min 58 Sec

Longitude: W 94 Deg 02 Min 15 Sec

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

Nominal Power (kW): Day: 0.50 Night: 0.30

Antenna Input Power (kW): Day: Night:

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: Night:

Resistance (ohms): Day: Night:

Antenna Registration Number(s):

Day:

|           |      |
|-----------|------|
| Tower No. | ASRN |
| 1         | None |
| 2         | None |
| 3         | None |

Night:

|           |      |
|-----------|------|
| Tower No. | ASRN |
| 1         | None |
| 2         | None |
| 3         | None |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 199.88 Night: 154.83

Standard RMS (mV/m/km):

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

Q Factor: Day: Night: 7.75

Theoretical Parameters:

Day Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1         | 1.0450      | 133.000        | 0.0000         | 0.000              | 0                  | 77.0          |
| 2         | 1.3600      | 0.000          | 90.0000        | 260.000            | 0                  | 168.0         |
| 3         | 0.5200      | -133.000       | 90.0000        | 260.000            | 1                  | 77.0          |

\* 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       | 50.0                     | 60.0        | 45.06                                      |
| 2       | 80.0                     | 60.0        | 67.11                                      |
| 3       | 80.0                     | 10.0        | 67.27                                      |
| 4       | 110.0                    | 30.0        | 46.67                                      |
| 5       | 125.0                    | 30.0        | 33.15                                      |
| 6       | 163.0                    | 44.0        | 51.50                                      |
| 7       | 185.0                    | 36.0        | 154.50                                     |
| 8       | 335.0                    | 23.0        | 154.50                                     |
| 9       | 358.0                    | 23.0        | 48.28                                      |

Theoretical Parameters:

Night Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1         | 1.0450      | 133.000        | 0.0000         | 0.000              | 0                  | 77.0          |
| 2         | 1.3600      | 0.000          | 90.0000        | 260.000            | 0                  | 168.0         |
| 3         | 0.5200      | -133.000       | 180.0000       | 260.000            | 0                  | 77.0          |

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

## Augmentation Parameters:

| Aug<br>No. | Central<br>Azimuth<br>(Deg. T) | Span<br>(Deg.) | Radiation<br>at Central Azimuth<br>(mV/m @ 1 km) |
|------------|--------------------------------|----------------|--|
| 1          | 50.0                           | 60.0           | 34.90  |
| 2          | 80.0                           | 60.0           | 52.00  |
| 3          | 80.0                           | 10.0           | 52.10  |
| 4          | 110.0                          | 30.0           | 36.20  |
| 5          | 125.0                          | 30.0           | 25.70  |
| 6          | 163.0                          | 44.0           | 39.90  |
| 7          | 185.0                          | 36.0           | 119.70   |
| 8          | 335.0                          | 23.0           | 119.70   |
| 9          | 358.0                          | 23.0           | 37.40  |

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