

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BZ-861218AP

NIGHTTIME SITE
AM BROADCAST STATION LICENSE

Call Sign: WMLA

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license,¹ the LICENSEE

W. RUSSELL WITHERS, JR.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time DECEMBER 1, 1989 in accordance with the following:

1. Station location: Normal, IL

2. Main Studio location:
(Listed only if not at transmitter site or not within boundaries of principal community)

3. Remote control location: 1218 S. Main Street
Normal, IL

4. Transmitter location: 5.6 km North of Downs,
Near Downs, IL

North latitude : 40° 26' 55"
West longitude: 88° 51' 20"

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

6. Antenna and ground system: Attached

7. Obstruction marking and lighting specifications — FCC Form 715, paragraphs: None required.

8. Frequency (kHz.): 1440

9. Nominal power (kW): Day
0.5 Night

Antenna input power (kW): Day
0.54 Night

Non-directional antenna: current _____ amperes; resistance _____ ohms.
 Directional antenna : current _____ amperes; resistance _____ ohms.

Non-directional antenna: current _____ amperes; resistance _____ ohms.
 Directional antenna : current 3.22 amperes; resistance 52 ohms.

10. Hours of operation: Specified in construction permit (BR-790727VI).

11. Conditions:

The Commission reserves the right during said license period of terminating this license or making effective any change or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

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 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, as amended. 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, as amended.

¹ This license consists of this page and pages 2, 3 & 4

Dated: KR/ajs

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COMMISSION



June 1980

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Date:

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1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Six vertical, guyed, series-excited, steel radiators of uniform cross section, top-loaded by the upper 9.1 m of the top guy wires. Theo. RMS: 205.2 mV/m @ 1 km. Aug. RMS: 231.3 mV/m @ 1 km.

Height above Insulators: 45.7 m (top-loaded to 90°)

Overall Height: 46.6 m

Spacing and Orientation: Towers are in a parallelogram with the short sides spaced 90° apart on a bearing of 128.5° True. Long sides consist of towers #1, #3 & #5, and Towers #2, #4, & #6 spaced 260° between towers on a line bearing 27° True.

Non-Directional Antenna: None Used.

Ground System consists of 120-53.3 m equally spaced copper radials plus 120-22.9 m copper radials about the base of each tower. Radials are above ground on gravel for 6.1 m and then buried beyond this distance Long radials are shortened and bonded to transverse copper strap midway between short spaced towers. Individual short **

2. THEORETICAL SPECIFICATIONS

**spaced tower ground system are interconnected by extension of copper strap through **

Phasing:	NW(#1)	NE(#2)	WC(#3)	EC(#4)	SW(#5)	SE(#6)
	0°	100°	0°	100°	0°	100°

Field Ratio:	1.0	1.0	1.5	1.5	1.0	1.0
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3. OPERATING SPECIFICATIONS

Phase Indication*:	0°	99°	3°	99°	2.5°	98°
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Antenna Base Current Ratio:	1.00	0.93	1.50	1.46	1.02	0.981
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Antenna Monitor Sample Current Ratio:	1.00	0.91	1.52	1.50	1.09	0.951
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* As indicated by potomac Instruments AM-19 Antenna Monitor.

**long axis of array. Towers piers are copper clad.

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NIGHTTIME SITE

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 330 degree true North. Leaving the Night transmitter site proceed North 1.1 km to Tee intersection. Turn left and proceed 4.2 km to Stop Sign at Towanda Road. Turn right and go 4.8 km to Barners. Turn right and go 0.5 km to Monitor Point. Measuring location is 30.5 m south of road in gravel driveway toward white barn. This point is 7.1 km from the site. The field intensity measured at this point should not exceed 5.9 mV/m.

Direction of 356 degree true North. Leaving the Night transmitter site proceed north 1.1 km to Tee intersection. Turn left and go 0.8 km to side road on right. Turn right and go 3.2 km to Highway No. 9. Turn right and go 0.3 km to Monitor Point. Measuring location is in front of R. L. Sparkey house. This point is 4.4 km from the site. The field intensity measured at this point should not exceed 4.7 mV/m.

Direction of 23 degree true North. Leaving the Night transmitter site proceed North. 1.1 km to a Tee intersection and follow on as in going to Monitoring 356 degree. From Monitor Point 356 degree go east 2.3 km on highway No. 9 to Monitor Point. Measuring location is on south edge of pavement across from large Billboard to north. This point is 4.7 km from the site. The field intensity measured at this point should not exceed 38 mV/m.

Direction of 80 degree true North. Leaving the Night transmitter site proceed North. 1.1 km to a Tee intersection. Then turn right and go 5.3 km to Monitor Point. Measuring location is 30.5 m to south of road turn gate posts into open field. This point is 5.5 km from site. The field intensity measured at this point should not exceed 2.2 mV/m.

Direction of 124 degree true North. Leaving the Night transmitter turn south and proceed 1.8 km to Tee intersection. Turn left and go 3.2 km to Monitor Point. Measuring location is 7.6 m north of road in driveway to Vernon Hanover Farm. This point is 3.9 km from the site. The field intensity measured at this point should not exceed 16 mV/m.

Direction of 160 degree true North. Leaving the Night transmitter turn south and proceed 1.8 km to Tee intersection. Turn left as in going to Monitor Point 124 degree, but instead go only 0.3 km to road to south by Church. Turn south and go 1.6 km to dirt road on left. Turn left and go 0.4 km to Monitor Point. Measuring location is in road just before trees. This point is 3.9 km from the site. The field intensity measured at this point should not exceed 4.6 mV/m.

Direction of 215 degree true North. Leaving the Night transmitter site go south 1.8 km to Tee intersection. Turn right and jog 0.4 km and then go south 1.2 km to turn to west. After turning west proceed 2.0 km (passing daytime site) to a Tee intersection. Turn left, south and go 0.2 km to monitor point. Measuring location is on top of rise by wooden gate on east side of road. This point is 3.9 km from site. The field intensity measured at this point should not exceed 21.2 mV/m.

Direction of 256 degree true North. Leaving the Night transmitter site proceed as going to Monitor Point 330 degree true North. However at the Towanda Road turn south, instead of north, and proceed 2.2 km to the Monitor Point. Measuring location is on east side of road in-line with white corn crib to west. This point is 4.0 km from site. The field intensity measured at this point should not exceed 18.3 mV/m.