

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No. BL-11,584  
Call Letters W A U K

*Kley*

STANDARD BROADCAST STATION LICENSE

MODIFIED AS OF MARCH 17, 1967

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

MIDWEST BROADCASTING CO.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broad-

casting for the term beginning March 17, 19 67 and ending December 1, 19 67  
~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ (3 a.m., Eastern Standard Time)

The licensee shall use and operate said apparatus only in accordance with the following terms:

- On a frequency of 1510 kc.
- With      watts power      directional antenna nighttime 

	current,		amperes
	resistance,		ohms

  
and 10 kilowatts power      directional antenna daytime 

<u>common point</u>	current,	<u>14</u>	amperes
<u>common point</u>	resistance,	<u>50.8</u>	ohms
- During the following period or periods of time: **Daytime as follows:**

Jan. 7:30am to 4:45pm; Feb. 6:45am to 5:30pm;  
Mar. 6:00am to 6:00pm; Apr. 5:15am to 6:30pm;  
May 4:30am to 7:15pm; June 4:15am to 7:30pm;  
July 4:30am to 7:30pm; Aug. 5:00am to 7:00pm;  
Sep. 5:30am to 6:00pm; Oct. 6:00am to 5:15pm;  
Nov. 6:45am to 4:30pm; Dec. 7:15am to 4:15pm;  
Central Standard Time.

4. With the station located at:

**Waukesha, Wisconsin**

5. With the main studio located at:

**330 Wisconsin Avenue  
Waukesha, Wisconsin**

The apparatus herein authorized to be used and operated is located at:

**0.18 mi. N. of Hwy. 59  
on Whitehall Street  
Waukesha, Wisconsin**

North Lat.	43	01	00
West Long.	88	11	42

and is described as follows: **COLLINS, Type No. 21-M, Broadcasting Transmitter**  
(or other transmitter currently listed in the Commission's "Radio Equipment List, Part B, Aural Broadcast Equipment" for the power herein authorized).

The Commission reserves the right during said license period of terminating this license or making effective any changes 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. 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.

<sup>1/</sup> This license consists of this page and pages 2 & 3.

Dated: March 17, 1967

FEDERAL COMMUNICATIONS COMMISSION,

*Ben F. Waple*

Secretary



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File No. BL-11,584 Call Letters WAUK Date 3-17-67

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- D

No. and Type of Elements: **Two uniform cross-section, guyed, series excited vertical radiators with an FM antenna side-mounted near the top of the #1 (S) tower.**

Height above Insulators: **150' (83°)**

Overall Height: **153'**

Spacing and Orientation: **Spaced 163' (90°) between elements on a line bearing 3° true.**

Non-Directional Antenna: **None used.**

Ground System consists of **120 equally spaced, buried, copper radials 163' in length plus 120 interspaced radials 50' in length about the base of each tower. Intersecting radials bonded to transverse copper straps midway between adjacent elements.**

2. THEORETICAL SPECIFICATIONS

Phasing:	#1(S) 0°	#2(N) -80°
Field Ratio:	1.0	1.0

3. OPERATING SPECIFICATIONS

Phase Indication:*	+78°	0°
Antenna Base Current Ratio:	0.815	1.0
<del>Phase monitor sample</del> Current Ratio:	0.815	1.0

\*As indicated by ~~Nemo-Clarke 108-E~~ phase monitor.

Phase indications and antenna base currents shall be read and entered in the operating log at least once each hour. Phase monitor sample currents may be read and logged in lieu of base currents provided base currents are read and logged at least once daily.

Field measuring equipment being available at all times and the field intensity at each of the monitoring points being measured at least once every seven days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of  $50^{\circ}$  True North. Leaving the transmitter, proceed south on Whitehall St. 0.3 miles to Highway 59. Turn east on Highway 65 0.5 miles to Springdale Rd. Turn left (North) and proceed 0.7 miles to Davidson St. Turn right (east) and proceed 0.45 miles to Kossow St. Turn left (north) and proceed 0.3 miles to measuring location. Measuring location is on east side of road by mail box in front of 330 Kossow St. This location is 1.20 miles from WAUK. The field intensity measured at this point should not exceed 480 mv/m.

Direction of  $183^{\circ}$  True North. Leaving the transmitter, proceed south on Whitehall St. 0.2 miles to Highway 59. Turn west and go 0.2 miles to Highway A. Turn left (south) on Highway A, and proceed 1.3 miles to intersection with Highway Y. Turn left on Highway "Y" and proceed 0.3 miles to monitor point. Measuring location is on south side of road, across from fence line to north. This location is 1.78 miles from WAUK. The field intensity measured at this point should not exceed 40 mv/m.