

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
STANDARD BROADCAST STATION LICENSE

File No. BL-12,985  
Call Letters W T C L  
Official No. 4869

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

WARREN BROADCASTING CORPORATION

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broad-  
casting for the term beginning September 10, 1971 and ending October 1, 1973  
(3 a.m., Local Time) (3 a.m., Local Time)

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

- On a frequency of 1570 kc.
- With - watts power - directional antenna nighttime [ - current, - amperes  
- resistance, - ohms  
and 500 watts power - directional antenna daytime [ common point current, 3.55 amperes  
common point resistance, 39.78 ohms
- During the following period or periods of time: Daytime as follows:  
Jan. 7:45am to 5:15pm; Feb. 7:15am to 6:00pm;  
Mar. 6:30am to 6:30pm; Apr. 5:45am to 7:00pm;  
May 5:00am to 7:30pm; June 4:45am to 8:00pm;  
July 5:00am to 8:00pm; Aug. 5:30am to 7:30pm;  
Sep. 6:00am to 6:30pm; Oct. 6:30am to 5:45pm;  
Nov. 7:15am to 5:00pm; Dec. 7:45am to 5:00pm;  
Eastern Standard Time (non-advanced)

4. With the station located at:  
Warren, Ohio

5. With the main studio located at:  
1295 Lane West Road, S. W.  
Warren, Ohio

The apparatus herein authorized to be used and operated is located at:  
1295 Lane West Road, S. W. North Lat. 41 0 12 ' 22 "  
Warren, Ohio West Long. 80 0 50 ' 29 "

and is described as follows: GATES Type BC-500-G

(or other transmitter currently listed in the Commission's "Radio Equipment List, Part B, Aural Broadcast Equipment" for the power herein authorized).

Obstruction marking specifications in accordance with paragraphs 1, 3, 11 and 21 of FCC Form 715 attached.

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: September 10, 1971

FEDERAL COMMUNICATIONS COMMISSION,



*Ben F. Waple*  
Secretary

File No. **BL-12985** Call Sign **WTCL** Date **9-10-71**

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- Day

No. and Type of Elements: **Two (2) uniform cross-section guyed, series excited vertical radiators.**

Height above Insulators: **185' (106°)**

Overall Height: **SE(#1) 193' NW(#2) 188'**

Spacing and Orientation: **Towers spaced 317' (182°) on a line bearing 296° true.**

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

Ground System consists of **120-157' equally spaced, buried, copper wire radials plus a 24 by 24 foot expanded copper mesh ground screen about the base of each tower. Radials, adjacent to line of towers, extended and bonded to transverse copper strap midway between towers.**

2. THEORETICAL SPECIFICATIONS

	Tower	SE(#1)	NW(#2)
Phasing:	Day	0°	+40.8°
Field Ratio:	Day	1.0	0.580

3. OPERATING SPECIFICATIONS

Phase Indication:*	Day	0°	+32°
Antenna Base Current Ratio:	Day	1.0	0.562
<b>Phase Monitor Sample</b> Current Ratio: (%)	Day	100	74.3

\*As indicated by **Potomac AM-19** 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 current ratio** may be read and logged in lieu of base currents provided base currents are read and logged at least once **daily.**

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

DIRECTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of  $116^{\circ}$  true North. From transmitter proceed 0.77 miles east on Lane West Road to Highland Avenue, turn south on Highland Avenue 0.20 miles to Burnette East, turn east on Burnette 0.71 miles to South Main Street Extension, turn south on South Main Street 0.70 miles to drive of C. A. Finney residence, turn east into drive 300 feet to point midway between two large trees. Distance from transmitter site is 1.88 miles. The field intensity measured at this point should not exceed 39.6 mv/m.

Direction of  $256^{\circ}$  true North. From transmitter proceed 0.10 miles west to old Route 45, turn southwest 0.45 miles to Hewitt Gifford Road, turn west on Hewitt Gifford Road 0.59 miles to entrance of St. Peter and Paul Cemetery, turn south into cemetery to point 100 feet beyond rear of circle drive at edge of cemetery. Distance from transmitter site is 1.09 miles. The field intensity measured at this point should not exceed 36.0 mv/m.

Direction of  $296^{\circ}$  true North. From transmitter proceed 0.10 miles west to old Route 45, turn southwest 0.45 miles to Hewitt Gifford Road, turn west 0.69 miles to Palmyra Road, turn northeast 0.66 miles to pipeline right-of-way beside house at 3140 Palmyra Road, point is 50 feet west of road on pipeline right-of-way north of driveway. Distance from transmitter site is 1.05 miles. The field intensity measured at this point should not exceed 69.0 mv/m.

Direction of  $336^{\circ}$  true North. From transmitter proceed 0.10 miles west to old Route 45, turn southwest 0.45 miles to Hewitt Gifford Road, turn west 0.69 miles to Palmyra Road, turn northeast 1.39 miles to house at 2401 Palmyra Road, point is in front yard 25 feet southeast of road and even with north edge of house. Distance from transmitter site is 1.11 miles. The field intensity measured at this point should not exceed 29.0 mv/m.