

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No. BL-13,000
Call Letters WKZO

STANDARD BROADCAST STATION LICENSE

54485

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, ^{1/}the LICENSEE

PETER BROADCASTING COMPANY

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broad-
casting for the term beginning August 13, 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 590 kc.
- With 5 kilowatts power directional antenna nighttime

<u>Common point</u>	current, <u>8.70</u> amperes
<u>Common point</u>	resistance, <u>66.2</u> ohms
<u>Antenna</u>	current, <u>20.8</u> amperes
<u>Antenna</u>	resistance, <u>11.6</u> ohms

and 5 kilowatts power nondirectional antenna daytime

<u>Antenna</u>	current, <u>20.8</u> amperes
<u>Antenna</u>	resistance, <u>11.6</u> ohms
- During the following period or periods of time: Unlimited time.

Average hours of sunrise and sunset:

Jan. 8:15am to 5:30pm; Feb. 7:15am to 6:15pm;
 Mar. 7:00am to 6:15pm; Apr. 6:00am to 7:15pm;
 May 5:15am to 8:00pm; June 5:00am to 8:15pm;
 July 5:15am to 8:15pm; Aug. 5:15am to 7:15pm;
 Sep. 6:15am to 7:00pm; Oct. 7:00am to 6:00pm;
 Nov. 7:30am to 5:15pm; Dec. 8:00am to 5:15pm;

- With the station located at: Eastern Standard Time (non-advanced).

Kalamazoo, Michigan

Transmitter may be operated by remote control
from 590 West Maple Street, Kalamazoo, Michigan.
(See Page 4 attached to license for Main
Transmitter)

- With the main studio located at:

590 West Maple Street
Kalamazoo, Michigan

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

2210 McKinley Avenue
Kalamazoo, Michigan

North Lat.	<u>42</u>	<u>21</u>	<u>00</u>
West Long.	<u>85</u>	<u>33</u>	<u>43</u>

and is described as follows: R21, R21-5-1, Broadcasting Transmitter

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

Obstruction marking and lighting specifications in accordance with paragraphs 1, 3, 12 and 21 of FCC Form 915 are effective when implemented or, in any event, by the dates specified by Section 17.43 of the Rules. Obstruction marking and lighting in accordance with paragraphs 1, 3, 12 and 20 continue in effect in the interim.

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.

^{1/} This license consists of this page and pages 2, 3 & 4 attached to license for Main Transmitter.

Dated: August 13, 1971

FEDERAL COMMUNICATIONS COMMISSION,



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Ben F. Wolfe
Secretary

File No.: BR-313

Call Sign: W K Z O

Date: 9-27-73

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA-N

54485

No. and Type of Elements: Four tapered, self-supporting insulated steel towers.

Height above Insulators: 325' (70.2°)

Overall Height: 330'

Spacing and Orientation: Two radiators on a line bearing 92° spaced 867' (187°).
Two other radiators on a line bearing 176°, spaced 370' (80°). The axes of the two pairs of radiators are mutually bisecting.

Non-Directional Antenna: South tower used for non-directional antenna.
Ground System consists of 120 radials 427' long under each tower approximately 6 inches.

2. THEORETICAL SPECIFICATIONS

Tower	W(#1)	N(#2)	E(#3)	S(#4)
Phasing:	0°	-90°	0°	90°
Field Ratio:	1.0	0.77	1.0	0.77

3. OPERATING SPECIFICATIONS

Phase Indication*:	0°	-84°	0°	78°
Antenna Base Current Ratio:	1.0	0.66	0.98	0.71
Antenna Monitor Sample Current Ratio:	1.0	0.65	0.98	0.71

*As indicated by Potomac Instruments AM-19 (204) antenna monitor.

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 thirty days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 85° true North.

To reach this location from the WKZO transmitter go east 0.6 mile on McKinley Ave. to Riverview Dr., turn right and go 0.45 miles southwest on Riverview Dr. to Mt. Olivet Rd., turn left onto Mt. Olivet Rd. and go 0.95 mile to Howlandsburg Rd., turn left onto Howlandsburg Rd. and go 2.16 miles to Hwy. M-43, then turn left and go northeast 1.95 miles to County Rd. EF. The measuring location is on the west edge of M-43 Hwy. directly across the road from the Kalamazoo Plug Co. driveway. This location is 4.40 airline miles from the WKZO transmitter. The field intensity measured at this point should not exceed 3.30 mv/m.

NORTH

Direction of 117.5° true. Proceed east on McKinley Ave. 0.6 mile to Riverview Rd. Proceed southwest 0.45 mile to Mt. Olivet Rd. Proceed southeast, then south 0.95 mile to Howlandsburg Rd. Turn east and proceed 0.75 mile to 24th St. Turn north and proceed 0.3 mile north to the monitor point. The measuring location is on the east edge of the road, even with fence line to east. The distance from the antenna is 1.79 miles. The field intensity measured at this point should not exceed 14 mv/m.

Direction of 173° true North. Proceed east on McKinley Ave. 0.6 mile to Riverview Rd. Proceed southwest and south 3.65 miles to Hwy. M-43. Proceed northeast 0.3 mile to E. Main (Humphrey). Proceed east on E. Main 0.58 mile to Chicago Ave. Proceed south 0.22 mile to Adventist School on west side of Chicago Ave. (Adventist School Building has become Church of God of Prophecy). Measuring location is on Chicago Ave. in front of church. The distance from antenna is 3.53 miles. The field intensity measured at this point should not exceed 65 mv/m.

Direction of 250° true North. Proceed east on McKinley Ave. 0.6 mile to Riverview Rd. Proceed north 1.83 mile to D Ave. Proceed west 3.9 miles to 14th St. Proceed south 3.0 miles to G Ave. Proceed east 0.5 miles to monitor point. Measuring location is at south edge of road at point opposite midway point between two large roadside elms, even with tree on south side of road with No trespassing sign upon it. The distance from the antenna is 3.1 miles. The field intensity measured at this point should not exceed 11.7 mv/m.

BR-313

WKZO

54485

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DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 266° true North. Proceed east on McKinley Ave. 0.6 mile to Riverview Rd. Proceed north 1.83 miles to D Ave. Proceed west 4.9 miles to 12th St. Proceed south on 12th St. 2.3 miles to the monitor point. The measuring location is on the west side of 12th St., even with a large boulder set in the Gully. The distance from the antenna is 4.58 miles. The field intensity measured at this point should not exceed 3.1 mv/m.

Direction of 295° true North. To reach this location from the WKZO transmitter go 0.6 miles east on McKinley Ave. to Riverview Drive, turn left and go north 1.83 miles to D Ave., turn left onto D Ave. and go west 4.90 miles to 12th St. The measuring location is on the northeast corner of the intersection of 12th St. and D Ave. 10 ft. east of the stop sign. This point is 4.63 airline miles from the WKZO transmitter. The field intensity measured at this point should not exceed 33.0 mv/m.