

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.:

Call Sign:

88-318

STANDARD BROADCAST STATION LICENSE

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

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

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

- On a frequency of _____ kHz.
- With nominal power of ³⁷⁰ _____ watts nighttime and _____ watts daytime,
with antenna input power of _____ watts directional
antenna nighttime
and antenna input power of _____ watts directional
antenna daytime
3. Hour of operation: _____
Daytime as follows:
Jan. 8:00am to 5:30pm; Feb. 7:30am to 6:15pm;
Mar. 7:00am to 6:45pm; 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. 5:45am to 7:45pm;
Sept. 6:15am to 6:45pm; Oct. 6:45am to 6:00pm;
Nov. 7:30am to 5:15pm; Dec. 8:00am to 5:00pm;
Eastern Standard Time (non-advanced)

4. With the station located at:

5. With the main studio located at: East Lansing, Michigan

304 Auditorium Bldg., Michigan State College

6. The apparatus herein authorized to be used and operated is located at: North Latitude: _____
West Longitude: _____

College Farm on Forest Road
East Lansing, Michigan

Transmitter(s):

RCA, BTA-10U

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

Construction marking specifications in accordance with the following paragraphs of FCC Form 715:

Conditions:

1, 3, 12, & 21

Transmitter may be operated by remote control from Michigan State University,
East Lansing, Michigan.

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

Dated: November 21, 1974

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FEDERAL
COMMUNICATIONS
COMMISSION



File No.: **BS-318**

Call Sign: **W K A R**

Date: **11-21-74**

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA-

No. and Type of Elements:

Two (2) elements - #2(NW) tapered, guyed series-excited vertical radiator. #1(SE) tapered, self-supporting, shunt excited vertical radiator.

Height above Insulators:

300' (95°)

Overall Height:

303'

Spacing and Orientation:

Spaced 251.4' (80°) on a line bearing 330° true.

Non-Directional Antenna:

Ground System consists of

None Used

120-300' equally spaced buried copper radials about

2. THEORETICAL SPECIFICATIONS

Phasing:

Lower

NW(#2)

SE(#1)

Field Ratio:

Day

-134°

0°

Day

0.4

1.0

3. OPERATING SPECIFICATIONS

Phase Indication*:

Day

163°

0°

Antenna Base

Current Ratio:

Day

0.48

1.00

Antenna Monitor

Sample

Current Ratio:

Day

0.70

1.00

*As indicated by

antenna monitor.

**Rotomac Instruments
AM-19 (204)**

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

DESCRIPTION OF AND FIELD INTENSITY, AT MONITORING POINTS:

Direction of 96° true North. Proceed 0.2 miles E. from transmitter on Forest Road to Beaumont St. then S. 0.5 miles on Beaumont to Bennett. Then proceed E. on Bennett 0.5 miles to Hagerdorn. Then proceed S. on Hagadorn 1.0 miles to Jolly Rd. Then E. on Jolly 4.2 miles to Vanatta. Then proceed N. on Vanatta 1.0 miles to bridge. The monitoring point is located 150 feet N. of this bridge on the eastern edge of Vanatta. The distance is 4.95 miles from the antenna. The field intensity measured at this point should not exceed 56 mv/m.

Direction of 150° true North. Proceed 0.2 mile E. from transmitter on Forest Rd. to Beaumont St. then S. 0.5 mile on Beaumont to Bennett. Then proceed E. 0.5 mile on Bennett to Hagadorn then proceed S. 1.0 mile on Hagadorn to Jolly. Then proceed E. on Jolly 0.5 mile to Hulett. Then proceed S. 0.5 mile to end of road. This monitoring point is located in the roadway. The distance is 2.3 miles from the antenna. The field intensity measured at this point should not exceed 185 mv/m.

Direction of 204° true North. Proceed West from transmitter 0.45 miles on Forest Rd. to College. Proceed S. on College 2.0 miles to Sandhill. Then proceed W. on Sandhill 0.7 mile to mail box at 3871 Sandhill. The monitoring point is located 150 feet west of mail box on the S. side of Sandhill. The distance is 2.8 miles from the antenna. The field intensity measured at this point should not exceed 116 mv/m.