

ID 35330

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

File No. : BL-910401AB
Call Sign : W S D S

LICENSEE: KOCH Broadcasting Corporation

1. Community of License : Salem Township, MI
2. Transmitter location : 580 West Clark Road
Washtenaw County
Ypsilanti, MI
North latitude : 42 ° 15 ' 42 "
West longitude : 83 ° 37 ' 10 "

3. Transmitter(s): Type Accepted. (See Sections 73.1660, 73.1665 and 73.1670 of the Commission's rules)
4. Main Studio location: (See Section 73.1125)
580 West Clark Road
Washtenaw County
Ypsilanti, MI
5. Remote control location: - - -

Antenna and ground system: Attached

Obstruction marking and lighting specifications - FCC Form 715, paragraphs: 1, 3, 11 & 21.

Frequency : 1480 kHz

Nominal power (kW) : 0.75 Day 3.8 Night

Antenna input power (kW) : 0.808 Day
4.1 Night
 Non-directional antenna
 Directional antenna : current 4.02 amperes; resistance 50 ohms.
 Non-directional antenna
 Directional antenna : current 9.06 amperes; resistance 50 ohms.

Hours of operation: Specified in BP-870817AI; BMP-910307AC

Conditions : - - -

7/11/91 -- SUPEREDED TO CORRECT CITY OF LICENSE, NOMINAL POWER AND MONITOR POINT DESCRIPTION.

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, the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time October 1, 1996

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 if not held, prior to the commencement of this license period.
The license is issued on the licensee's representation that the statements contained in the 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 the 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.



File NO. BL-910401AB Call Sign: W S D S Date:

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Six (6), guyed, series-excited, steel radiators of uniform cross-section. Theoretical RMS: 270.71 mV/m/km, Day; 697.39 mV/m/km, Night. Standard RMS: 284.44 mV/m/km, Day; Std. Aug. RMS: 733.23 mV/m/km, Night. Q factor: 10.0 Day; 28.93, Night. AN RPU antenna is sidemounted tower #1.

Height above Insulators: 85m (151°); 69.8 m (124°); 67.5 m (120°)
79.9 m (142°); 45.8 m (81.5°); 29 m (51.5°)

Overall Height: 85.9 m; 70.7m; 68.4 m;
80.8 m; 46.3m; 29.9m

Spacing and Orientation: Towers #1, #2, #3 and #4 are spaced 90° apart on a line bearing 5° True. From tower #2, tower #5 is spaced 90° on a line bearing 50° True; and tower #6 is spaced 166.3° on a line bearing 27.5° True.

Non-Directional Antenna: N/A

Ground System consists 120 buried copper radials extending 50.6 m long. A 7.3 m X 7.3 m copper screen is installed at the base of each tower.

2. THEORETICAL SPECIFICATIONS

Tower	#1	#2	#3	#4	#5	#6
Phasing: Night	0°	215.75°	74.41°	294.99°	---	---
Day	---	-76.8°	111.1°	---	168°	0°
Field Ratio: Night	1.0	2.2	1.97	0.68	---	---
Day	---	0.41	0.9	---	0.31	1.0

3. OPERATING SPECIFICATIONS

Phase Indication*:	#1	#2	#3	#4	#5	#6
Night	-77°	139°	0°	-137°	---	---
Day	---	-74°	106°	---	175°	0°

Antenna Base	#1	#2	#3	#4	#5	#6
Current Ratio: Night	0.245	1.187	1.00	0.379	---	---
Day	---	0.068	0.156	---	0.172	1.00

Antenna Monitor Sample	#1	#2	#3	#4	#5	#6
Current Ratio: Night	0.33	1.08	1.0	0.37	---	---
Day	---	0.40	0.80	---	0.55	1.00

* As indicated by Potomac Instruments AM-19 (204) antenna Monitor. Antenna sampling system approved under section 73.68(b) rules.

Direction of 93.5 degrees true north. From WSDS site turn left on Clark Road and proceed east 2.9 miles to Wiard Road. Turn left and proceed north 200 feet to the point. Point is on the sidewalk on the east side of the road and lies 2.87 miles from the antenna. The field intensity measured at this point should not exceed 14.2 mV/m night.

Direction of 119.5 degrees true north. From WSDS site turn left on Clark Road and proceed east 2.05 miles to Ford Boulevard. Turn right and proceed south 1.15 miles to Russell Street. Turn left and proceed east 0.2 miles to Oregon Street. Turn left and proceed north 0.1 miles to the point. Point is 10 feet east of the road opposite the driveway of house number 96 and lies 2.56 miles from the antenna. The field intensity measured at this point should not exceed 13.4 mV/m night.

Direction of 153 degrees true north. From WSDS site turn left on Clark Road and proceed east 0.8 miles to Prospect Street. Turn right and proceed southeast 1.95 miles to Grove Road. Turn left and proceed southeast 0.7 miles to the point. Point is adjacent to a small tree 20 feet southwest of the northwest entrance to the Mormon Church, on the edge of the parking lot, and lies 2.86 miles from the antenna. The field intensity measured at this point should not exceed 10.3 mV/m night.

Direction of 217 degrees true north. From WSDS site turn right on Clark Road and proceed west 0.15 miles to LeForge Road. Turn left and proceed south 0.4 miles to Huron River Drive. Turn right and proceed west 0.35 miles to Oakwood Street. Turn left and proceed south 0.75 miles to Cross Street. Turn right and proceed west 0.95 miles to Hewitt Road. Turn left and proceed south 1.0 miles to Ellsworth Road. Turn right and proceed west 0.3 miles to the point. Point is 30 feet north of the road in the driveway of an apartment complex and lies 2.63 miles from the antenna. The field intensity measured at this point should not exceed 14.9 mV/m night.

Direction of 250.5 degrees true north. From WSDS site turn right on Clark Road and proceed west 0.15 miles to LeForge Road. Turn left and proceed south 0.4 miles to Huron River Drive. Turn right and proceed 1.5 miles to intersection with Clark Road. Continue straight ahead on Clark Road 0.5 miles to Golfside Road. Turn left and proceed south 0.65 miles to the point. Point is on the east side of the road in the parking lot directly opposite the driveway for the Golfside Market and lies 2.26 miles from the antenna. The field intensity measured at this point should not exceed 20.0 mV/m night.

Direction of 276.5 degrees true north. From WSDS site turn right on Clark Road and proceed west 0.15 miles to LeForge Road. Turn left and proceed south 0.4 miles to Huron River Drive. Turn right and proceed 1.5 miles to intersection with Clark Road. Turn right and continue north and northwest on Huron River Drive for 1.0 miles to an unnamed road. Turn left and proceed south 0.15 miles to the point. Point is on the west edge of the road, at the bend, and lies 2.59 miles from the antenna. The field intensity measured at this point should not exceed 7.2 mV/m night.

DIRECTION OF AND FIELD INTENSITY AT MONITORING POINTS

Direction of 106° True North. From the WSDS transmitter building, proceed out the WSDS driveway to Clark Road. Turn left and proceed east 2.1 miles to Ford Boulevard. Turn right and proceed south 0.3 mile to Holmes Road. Turn left and proceed east 0.2 mile to Lamay Avenue. Turn right and proceed south 0.1 mile to the point. The point is located on the east edge of the road in the center of the driveway of 806 Lamay Avenue and lies 3.67 kilometers from the antenna. The field intensity measured at this point should not exceed 43.4 mV/m Day.

Direction of 198.5° True North. From the WSDS transmitter building, proceed out the WSDS driveway to Clark Road. Turn right and proceed west 0.2 mile to LaForge Road. Turn left and proceed south 0.4 mile to Huron River Drive. Turn right and proceed west 1.5 miles to Hewitt Road. Turn left and proceed south 2.1 miles to Ellsworth Road,. Turn left and proceed east 0.3 mile to Michigan Avenue. Turn left and proceed northeast 0.4 mile to Mansfield Street. Turn right and proceed south 0.1 mile to the point. The point is located on the west edge of the road directly across from a red fire hydrant and lies 3.38 kilometers for the antenna. The field intensity measured at this point should not exceed 5.1 mV/m Day.

Direction of 246° True North. From the WSDS transmitter building, proceed out the WSDS driveway to Clark Road. Turn right and proceed west 0.2 mile to LaForge Road. Turn left and proceed south 0.4 mile to Huron River Drive. Turn right and proceed west 1.5 mile to Hewitt Road. Turn left and proceed south 0.8 mile to Washtenaw Avenue. The right and proceed west 0.2 mile to Brookside Road. Turn left and proceed south 0.1 mile to Northlawn Avenue. Turn right and proceed west 0.4 mile to the point. The point is located on the north edge of the road in the center of the driveway of 2928 Northlawn Avenue and lies 3.50 kilometers from the antenna. The field intensity measured at this point should not exceed 9.0 mV/m Day.