FCC Form 352
May 1988

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No. : BS-940114

AM BROADCAST STATION LICENSE

Call Sign : K D M I

LICENSEE: AMERICAN RADIO SYSTEMS LICENSE CORP.

1. Community of License. . . : Des Moines, IA

2. Transmitter location. . . . . : 3900 N.E. Broadway
Des Moines, IA

North Latitude. . . . . : 41° 38' 45"
West Longitude . . . . . : 93° 32' 12"

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)*
2907 Merle Hay Road
Des Moines, IA

5. Remote control location
2907 Merle Hay Road
Des Moines, IA

6. Antenna and ground system:
Attached.

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: 1, 3, 12 & 21 for Tower #1(NW)
1 only for Tower #2(SE).

8. Frequency. . . . . : 1460 kHz

9. Nominal power (kW). . . . . : 5.0 Day 5.0 Night

Antenna input power (kW) :

5.0 Day ☒ Non-directional antenna: ☐ Directional antenna : current 10.2 amperes: resistance 48 ohms.

5.4 Night ☐ Non-directional antenna: ☒ Directional antenna : current 10.39 amperes: resistance 50 ohms.

10. Hours of operation : previous authorization.

11. Conditions. . . . . : **BS-940114:** This license is issued to reflect a change in both the Main Studio & Remote Control Locations.

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,[1] 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
February 1, 1997

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.

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 f or control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

NPS

[1] This license consists of this page and pages 2 & 3.

Dated: February 14, 1994

FEDERAL COMMUNICATIONS COMMISSION

FCC Form 353-A
June 1980

File No.: BS-940114 **Call Sign: KDMI**

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Two series-excited, vertical, steel radiators. NW(#1) tower is uniform cross-section, guyed with a 12 section FM antenna side-mounted near the top. SE(#2) tower is tapered, self-supporting with a remote pickup antenna side-mounted near the top. Theo RMS: 770.88 mV/m. Aug RMS: 832.35 mV/m. Q: 22.361. All values @ 1km, Night.

Height above Insulators: NW(#1): 108.2m (190°) SE(#2): 60.96m (107°)

Overall Height: NW(#1): 109.73m SE(#2): 62.98m

Spacing and Orientation: Spaced 99.67m (175°) between elements on a line bearing 135° True.

Non-Directional Antenna: NW(#1) Tower. Theo. Effy: 395.90 mV/m/km/kW.

Ground System consists of 120-equally spaced, buried copper radials 82.3m in length plus a 11m by 11m ground screen about the base of each tower. Intersection radials shortened and bonded to a transverse copper strap midway between adjacent elements.

2. **THEORETICAL SPECIFICATIONS**

Towers:	#1(NW)	#2(SE)
Phasing:	0°	25°
Field Ratio:	1.00	0.75

3. **OPERATING SPECIFICATIONS**

Phase Indication*:	0°	44.8°
Antenna Base Current Ratio:	1.00	1.02
Antenna Monitor Sample Current Ratio:	1.000	0.754

* **As indicated by** Delta DAM-1 (3-218) Antenna Monitor.
Antenna sampling system approved under Section 73.68 (b) of the Rules.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 103° True North. Proceed from the KDMI transmitter site 1.1 miles east on N.E. Broadway to traffic light at intersection with Highway 6. Continue east on Highway 6 for 1.5 miles to N.E. 64th Street. Turn right and proceed 0.5 miles south to monitoring point #1. Monitoring point is on the east side of the road and on the south side of the driveway, 5 feet from the edge of the road. Distance is 2.91 miles from the array. The field intensity measured at this point should not exceed 37.8mV/m.

Direction of 135° True North. Proceed from the KDMI transmitter site 1.1 miles east on N.E. Broadway to traffic light at intersection with Highway 6. Continue east on Highway 6 for 0.8 miles to N.E. 56th Street. Turn right and proceed 1.7 miles south to monitoring point #2. Monitoring point is on west side of road, in middle of driveway, 5 feet from white wooden gate. Distance from array is 2.56 miles. The field intensity measured at this point should not exceed 60.0 mV/m.

Direction of 315° True North. Proceed rom the KDMI transmitter site 2.2 miles west on N.E. Broadway to N.E. 22nd Street. Turn right and proceed 3.0 miles north to N.E. 70th Avenue. Turn left and proceed 0.7 miles west to monitoring point #3. Monitoring point is on north side of road, 82 feet west of railroad tracks. Distance from the array is 4.10 miles. The field intensity measured at this point should not exceed 53.8 mV/m.