

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-850620AB

Call Sign: KXAK

## AM BROADCAST STATION LICENSE

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,<sup>1</sup> the LICENSEE

MID-AMERICA GOSPEL RADIO NETWORK, INC.

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 October 1, 1990 in accordance with the following:

1. Station location: Corrales, New Mexico
2. Main Studio location:  
(Listed only if not at transmitter site or not within boundaries of principal community)
3. Remote control location:
4. Transmitter location: 10316 Edith Blvd, N.W.  
Alameda Township, NM  
North latitude : 35° 12' 00"  
West longitude: 106° 35' 59"
5. Transmitter(s): Type Accepted. (See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.)
6. Antenna and ground system: See page 2 attached
7. Obstruction marking and lighting specifications — FCC Form 715, paragraphs: None required
8. Frequency (kHz.): 1310
9. Nominal power (kW): 5.0 Day  
0.5 Night
- Antenna input power (kW) 5.0 Day  
0.54 Night
- ☒ Non-directional antenna: current 10.1 amperes; resistance 49 ohms.  
☐ Directional antenna : current \_\_\_\_\_ amperes; resistance \_\_\_\_\_ ohms.
- ☐ Non-directional antenna: current \_\_\_\_\_ amperes; resistance \_\_\_\_\_ ohms.  
☒ Directional antenna : current 3.29 amperes; resistance 50 ohms.
10. Hours of operation: Specified in construction permit (BP -831013AD & BMP-850430AD)
11. Conditions:

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 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, 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.

<sup>1</sup> This license consists of this page and pages



DEC 04 1985

June 1980

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Date: 7/1/85

**1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

DA- N

**No. and Type of Elements:** Three uniform cross section, guyed, series excited towers.  
 Theo. RMS = 199.6 mV/m at 1 km, Std RMS = 209.8 mV/m at 1 km.

**Height above Insulators:** 188' (90°)

**Overall Height:** 192'

**Spacing and Orientation:** Three towers spaced 167' (80°) on a line bearing 350° T.

**Non-Directional Antenna:** Center Tower, Daytime only.

**Ground System consists of** 120-180' equally spaced, buried, copper radials about the base of each tower. Intersecting radials shortened and bonded to transverse copper strap midway between towers. In addition a 24' x 24' expander copper mesh ground screen has been installed.

**2. THEORETICAL SPECIFICATIONS**

|                 | Tower  | N(#3) | C(#2)   | S(#1) |
|-----------------|--------|-------|---------|-------|
| <b>Phasing:</b> | Night: | -14°  | 171.47° | 14°   |

|                     |        |     |        |      |
|---------------------|--------|-----|--------|------|
| <b>Field Ratio:</b> | Night: | 1.0 | 0.9018 | 0.35 |
|---------------------|--------|-----|--------|------|

**3. OPERATING SPECIFICATIONS**

|                           |        |         |            |
|---------------------------|--------|---------|------------|
| <b>Phase Indication*:</b> |        |         |            |
|                           | Night: | -156.2° | 0° -128.3° |

**Antenna Base****Current Ratio:**

|        |       |      |       |
|--------|-------|------|-------|
| Night: | 0.720 | 1.00 | 0.502 |
|--------|-------|------|-------|

**Antenna Monitor Sample****Current Ratio:**

|        |       |      |       |
|--------|-------|------|-------|
| Night: | 0.701 | 1.00 | 0.502 |
|--------|-------|------|-------|

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

EXEMPTIONS AS LISTED IN SECTION 73.68(b) OF THE RULES WILL APPLY DURING PROPER OPERATION OF APPROVED SAMPLING SYSTEM.

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 appropriate record kept of all measurements so made.

#### DESCRIPTION OF AND STRENGTH OF MONITORING POINTS

Direction of  $98^{\circ}$  true north. From the transmitter/studio building, proceed south on Edith Blvd. a distance of 06.0 mile to intersection with Alameda Rd. Turn right (W) on Alameda Rd. and proceed 0.50 mile to 2nd Street. Turn right (N) on 2nd Street and proceed 1.00 mile to intersection with U.S. Highway 85 (4th Street). Bear right (NE) on Hwy. 85 and proceed 0.40 mile to intersection with State Hwy. 422. Bear right (E) on Hwy. 422 and proceed 1.45 miles to entry to West Frontage Rd. Turn right (S) on West Frontage Rd. and proceed 0.50 mile to point. Point is on west side of West Frontage Rd. over mark and opposite 55 MPH speed limit sign on east side of road. The sign is outside the range of the photograph. This is point No. 2 of the survey and is 1.22 miles from the array. The field intensity measured at this point should not exceed 40.9 mV/m.

Direction of  $242^{\circ}$  true north. From the studio transmitter building, proceed south on Edith Blvd. and proceed a distance of 0.60 mile to intersection with Alameda Rd. Turn right (W) on Alameda Rd. and proceed 0.70 mile to 4th Street intersection. Turn left (S) on 4th Street and proceed 0.22 mile to intersection with Golden Meadow on right. Turn right (W) on Golden Meadow and proceed a short distance (approximately 0.05 mile) to point. Point is in middle of road approximately 40 feet east of irrigation ditch crossing and opposite an adobe type house to north. This is point No. 5 of the survey and is 1.11 miles from the array. The field intensity measured at this point should not exceed 42.3 mV/m.