

**STANDARD BROADCAST STATION LICENSE
MAIN & AUXILIARY TRANSMITTERS**

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

MIDLAND BROADCASTING COMPANY

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 **AUGUST 1, 1977**

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

- On a frequency of **550** kHz.
- With nominal power of **1 kilo** watts nighttime and **5 kilo** watts daytime,
with antenna input power of **1.08** watts - directional
antenna nighttime [**common point** current **4.47** amperes
common point resistance **54.1** ohms,
and antenna input power of **5.4 kilo** watts - directional [**common point** current **10.0** amperes
antenna daytime [**common point** resistance **54.1** ohms

- Hours of operation: **Unlimited time.**

Average hours of sunrise and sunset:

Jan. 7:45am to 6:00pm; Feb. 7:30am to 6:30pm;

Mar. 7:00am to 7:00pm; Apr. 6:15am to 7:15pm;

May 5:45am to 7:45pm; June 5:45am to 8:00pm;

July 5:45am to 8:00pm; Aug. 6:15am to 7:30pm;

Sep. 6:30am to 7:00pm; Oct. 6:45am to 6:15pm;

Nov. 7:15am to 5:45pm; Dec. 7:45am to 5:45pm;

Central Standard Time. (non-advanced)

AUXILIARY 250 watts Night & Day:

Common point resistance 56 ohms (NIGHT)

Common point resistance 52 ohms (DAY)

Antenna input power 270 watts.

Common point current 2.20 amps. (NIGHT)

Common point current 2.28 amps. (DAY)

- With the station located at: **Midland, Texas**

- With the main studio located at:

1001 S. Midkiff Drive

Midland, Texas

- The apparatus herein authorized to be used and operated is located at: North Latitude: **32 ° 04 ' 10 "**
6.9 miles NE of downtown West Longitude: **102 ° 01 ' 46 "**
Midland, Texas

Transmitters may be operated by remote control from 1001 South Midkiff Road, Midland, Texas

- Transmitter(s): **RCA, BTA-5T**
RCA, 250L(Aux.)

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

Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: **1, 3, 12 and 21.**

- Conditions:

Section 73.39(b)(1)(ii) WAIVED to permit the use of antenna ammeters with full scale readings greater than three time the minimum normal indication, for 250 watt Auxiliary Operation Only.

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 and 3**

Dated: **September 17, 1974**

FEDERAL
COMMUNICATIONS
COMMISSION



File No.: BS-877

Call Sign: K C R S

Date: 9-17-74

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA-2

No. and Type of Elements: Five uniform cross-section, guyed, series-excited vertical radiators.

Height above Insulators: 320' (64.5°)
Overall Height: 325'

Spacing and Orientation: Five towers arranged in a trapezoid, towers 1 & 2 spaced 541.2' (108.9°) on a diagonal side bearing 85° true; towers 2, 4 & 5 spaced 407' (81.9°) on a parallel side bearing 200° true; towers 3 & 5 spaced 521.8' (105°) on a diagonal side bearing 310° true; and towers 1 & 3 spaced 407' (81.9°) on parallel side bearing 20° true. Towers 1, 2, 3 & 4 form nighttime parallelogram, and towers 1, 4, 3 & 5 form daytime parallelogram.

Non- Directional Antenna: None authorized.

Ground System consists of 120 radials 100' long and 120 radials 450' long about base of each tower, except where shortened and bonded to transverse copper straps midway between towers and where limited to 350' to the north and to 225' to the south property line.

2. THEORETICAL SPECIFICATIONS

	Tower	NW(#1)	NE(#2)	SW(#3)	EC(#4)	SE(#5)
Phasing:	Night	0°	+132	+168°	+300°	
	Day	0°		90°	+78°	-12°
Field Ratio:	Night	1.0	0.9	0.9	0.81	
	Day	1.0		0.1	1.0	0.1

3. OPERATING SPECIFICATIONS

Phase Indication*:	Night	0°	131.5°	169°	-59.5°	
	Day	0°		-86°	75°	-11°
Antenna Base Current Ratio:	Night	1.0	0.909	0.909	0.848	
	Day	1.0		0.10	1.01	0.09
Antenna Monitor Sample Current Ratio:	Night	1.0	0.910	0.910	0.815	
	Day	1.0		0.088	1.0	0.088

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

Field measuring equipment being available at all times and the field intensity at each of the monitoring points being measured at least once every thirty days and an appropriate record kept of all measurement so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 20.5° true North. From the entrance road to the KCRS transmitter building, proceed 3.3 miles southerly to U.S. Highway 80, 2.3 miles easterly to crossover to north service road of Interstate Highway 20, proceed 4.1 miles easterly to State Farm Road 1208, 4.7 miles northerly to State Farm Road 1212, and 4.3 miles northerly and westerly to a post marked 'KCRS' located in the fence line on the south side of the road. The monitoring point is located in the field 110 paces from the fence line toward KCRS. The field intensity measure at this point should not exceed 2.00 mv/m nighttime.

Direction of 65° true North. From Point 20.5° , return to junction of State Farm Roads 1208 and 1212, and proceed 2.3 miles southerly to a post marked "KCRS" located in the fence line on the west side of the road. The monitoring point is located in the field 100 paces from the fence line toward KCRS. The field intensity measured at this point should not exceed 26.2 mv/m nighttime.

Direction of 118.5° true North. From point No. 2, return to the service road of Interstate Highway 20 and proceed 4.1 miles westerly to crossover and proceed easterly 0.55 miles on Highway 80. An arrow is painted on the north edge of the paved shoulder of the west bound lane. The monitoring point is located 10 feet north of the arrow. The field intensity measured at this point should not exceed 4.7 mv/m nighttime; 4.4 mv/m daytime.

Direction of 133° true North. From Point 118.5° , proceed 0.9 mile westerly on U.S. Highway 80 to an arrow painted on the north edge of the paved shoulder. The monitoring point is located 10 feet north of the arrow. The field intensity measured at this point should not exceed 8.0 mv/m nighttime, 5.0 mv/m daytime.

Direction of 280° true North. From Point 133° , proceed 4 miles westerly to signal light at Fair Ground Road, 1.9 mile northerly, 1.0 mile westerly, and 3.4 miles northerly on Lamesa Road and State Road 349 to a post marked "KCRS" located in the fence line on the west side of the highway. The monitoring point is located 15 feet east of the post midway between the fence line and paved shoulder of the road. The field intensity measured at this point should not exceed 11.2 mv/m nighttime.