

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BZ-860729AG

Call Sign: KCMO

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,¹ the LICENSEE

PACIFIC AND SOUTHERN COMPANY, 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 in accordance with the following:

FEBRUARY 1, 1990

- 1. Station location: Kansas City, MO
- 2. Main Studio location: 2.9 km from State Line Fairway, KS
(Listed only if not at transmitter site or not within boundaries of principal community)
- 3. Remote control location: 2.9 km from State Line Road Fairway, Kansas
- 4. Transmitter location: 0.4 km North of Nashua Missouri
North latitude : 39 ° 18 ' 21 "
West longitude: 94 ° 34 ' 30 "
- 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.
- 7. Obstruction marking and lighting specifications — FCC Form 715, paragraphs: 1, 3, & 21.
- 8. Frequency (kHz.): 810
- 9. Nominal power (kW): 50.0 Day
5.0 Night
- Antenna input power (kW): 50.0 Day
5.4 Night
- Non-directional antenna: current 31.6 amperes; resistance 50 ohms.
- Directional antenna : current _____ amperes; resistance _____ ohms.
- Non-directional antenna: current _____ amperes; resistance _____ ohms.
- Directional antenna : current 10.4 amperes; resistance 50 ohms.
- 10. Hours of operation: Specified in ~~construction permit~~ License (BL-810706AA)
- 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.

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

Dated: ajs

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June 1980

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Date:

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1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Five(5), Vertical, guyed, steel radiator of uniform cross section. Theo. RMS: 638.91 mV/m/Km, Std RMS: 676.3 mV/m/km; Q factor: 22.36.

Height above Insulators: 91.4 meters (88.9°)

Overall Height: 93 meters

Spacing and Orientation: Towers C(#3), NC(#4) and NE(#5) spaced 154.2 meters (150°) on a line bearing 250° T. From NE(#5) tower, SW(#1) and SC(#2) are spaced 617 meters (600.2°) and 471.6m (458.8°) on a lines bearing 258.6° T and 254° T respectively.

Non-Directional Antenna: Daytime only.

Ground System consists of 120 equally spaced buried 152 m radials except where bonded to bus about C(#3) tower, 120 equally spaced buried 91.4m radials except where bonded to bus about NC and NE tower. plus 120 equally spaced 91.4m or shorter radials about SW(#1) and SC(#2) towers. 12.2m screen is located at base of all towers.

2. THEORETICAL SPECIFICATIONS

	SE(#1)	SC(#2)	C(#3)	NC(#4)	NE(#5)
Phasing:	-84.7°	-25.3°	-1.9°	-4.3°	0°
Field Ratio:	1.31	3.5	3.72	2.36	1.0

3. OPERATING SPECIFICATIONS

Phase Indication*:	SE(#1)	SC(#2)	C(#3)	NC(#4)	NE(#5)
	-61.4°	0°	14°	19.5°	31.3°
Antenna Base					
Current Ratio:	0.446	1.00	1.106	0.849	0.293
Antenna Monitor Sample					
Current Ratio:	0.462	1.00	1.15	0.863	0.296

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

ANTENNA SAMPLING SYSTEM APPROVED UNDER SECTION 73.68(b) OF THE RULES.

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DESCRIPTION OF AND FIELD INTENSITY OF MONITORING POINTS:

Direction of 297.5 degree true North. From transmitter site driveway, proceed west on Cookingham Drive for 4.2 km; turn right on Robinhood Lane and proceed north for 1.4 km. Monitor point is located on east shoulder of road in front of gravel driveway. The field intensity measured at this point should not exceed 49.5 mV/m.

Direction of 49 degree true North. From 297.5 degree true Monitor Point, continue north on Robinhood Road for 4.26 km to "T" intersection with Martin Road. Turn right and proceed east on Martin Road for 2.3 km to intersection with U.S. 169. Turn right and proceed south on U.S. 169 for 2.5 km to 132 Second Street. Turn left on 132nd Street and proceed east for 4.1 km. Monitor Point is located on north shoulder of road in front of house located south. The field intensity measured at this point should not exceed 6.6 mV/m.

Direction of 71.5 degree true North. From 49 degree True Monitor Point, proceed east on 132nd Street for 0.74 km to intersection with Sherman Road. Turn right on Sherman Road and proceed south for 1.6 km. Monitor Point is located on southwest shoulder of road at intersection with fence line running west. The field intensity measured at this point should not exceed 5.2 mV/m.

Direction of 100 degree true North. From 71.5 degree True Monitor Point, continue on south on Sherman Road for 2.7 km to intersection with Cookingham Road. Turn right and proceed west on Cookingham Road for 0.4 km. Turn left and proceed south on Reinking Road for 0.88 km. Monitor Point is located at second bend in road on north shoulder directly south of house to north. The field intensity measured at this point should not exceed 7.2 mV/m.