

#KRC  
EAL

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
AM BROADCAST STATION LICENSE

File No. : BS-941115

Call Sign : KFYO

LICENSEE: South Plains Broadcasting Co., Inc.

BS-941115

- 1. Community of License. . . : Lubbock, TX
- 2. Transmitter location. .... : 0.9 miles south on FM  
1730 FM intersection of  
FM 1730 & 1585,  
Lubbock, TX  
North Latitude. .... : 33° 27' 50"  
West Longitude. .... : 101° 55' 30"
- 6. Antenna and ground system:  
Attached

- 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)
- 5. Remote control location

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

8. Frequency. .... : 790 kHz

9. Nominal power (kW). .... : 5.0 Day 1.0 Night

Antenna input power (kW) :

5.4	Day	<input type="checkbox"/> Non-directional antenna:	current	10.4	amperes:	resistance	50	ohms.
		<input checked="" type="checkbox"/> Directional antenna	:					
1.08	Night	<input type="checkbox"/> Non-directional antenna:	current	4.65	amperes:	resistance	50	ohms.
		<input checked="" type="checkbox"/> Directional antenna	:					

10. Hours of operation : (BP-860925AF)

11. Conditions. .... :

BS-941115 is used to respecify obstruction marking and lighting and description of the 1°, 85° and 321° monitoring points

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 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

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

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<sup>1</sup> This license consists of this page and pages 2 & 3

Dated: JAN 2 1995

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1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

**No. and Type of Elements:** Three (3) vertical, guyed, series-excited, steel radiators of uniform cross section. Day Theoretical RMS: 687.3 mV/m/km. Standard RMS: 722.02 mV/m/km; Q = 22.36. Night Theoretical RMS: 301.4 mV/m/km; Q = 10.

**Height above Insulators:** 91.46 m (87°)

**Overall Height:** 93.59 m

**Spacing and Orientation:** With Tower #1 as reference, Tower #2 is spaced 95° at a bearing of 180° T. Tower #3 is spaced 210° on a bearing of 119°.

**Non-Directional Antenna:** Not used.

**Ground System consists of 120-**equally spaced buried copper radials 94.81 m in length where terminated to a copper strap, plus 7.31 m x 7.31 m copper ground screen around the base of each tower.

2. **THEORETICAL SPECIFICATIONS**

<b>Towers:</b>		N(#1)	S(#2)	SE(#3)
<b>Phasing:</b>	Night:	0°	-200°	18°
	Day:	85°	0°	--
<b>Field Ratio:</b>	Night:	1.0	0.250	0.500
	Day:	0.38	1.00	--

3. **OPERATING SPECIFICATIONS**

**Phase Indication\*:**

Night:	0°	154.4°	17.8°
Day:	85.1°	0°	--

**Antenna Base Current Ratio:**

Night:	1.00	0.260	0.580
Day:	0.364	1.00	--

**Antenna Monitor Sample Current Ratio:**

Night:	1.00	0.255	0.551
Day:	0.380	1.00	--

\* As indicated by Potomac Instruments AM-19 (204) Antenna Monitor.  
Antenna sampling system approved under Section 73.68 (b) of the Rules.

**DESCRIPTION OF AND FIELD STRENGTH OF MONITORING POINTS:**

**Direction of 1.0° True North.** From KFYO transmitter, turn left (north) and go 3.85 miles on FM 1730 to shopping center on west side of the road. The monitor point is in the north west corner of the parking lot, 135 feet from the far west building. The point is number 17 and is 6.08 km from KFYO. The field intensity measured at this point should not exceed 61.7 mV/m, daytime.

**Direction of 180° True North.** From KFYO transmitter, turn (south) on FM 1730 go 3.55 miles to flashing light in Slide and turn left (east) on Highway 41. Go east 0.25 miles to monitoring points. The monitor point is on the north side of the highway. The point is number 16 and is 5.47 km from KFYO. The field intensity measured at this point should not exceed 161 mV/m, daytime.

**Direction of 85° True North.** From KFYO transmitter, turn left (north) on FM 1730 for 0.85 miles to FM 1585. Turn right (east) on FM 1585 and go 2 miles to Indiana Avenue and turn right (south) for 0.65 miles to monitor point. The monitor point is on the east side of the road. The point number is 16 and is 3.54 km from KFYO. The field intensity measured at this point should not exceed 29.1 mV/m, nighttime.

**Direction of 163° True North.** From KFYO transmitter, turn right (south) on FM 1730 and go to flashing light in Slide and turn left (east) on Highway 41. Go 1.27 miles east to monitor point. The monitor point is on the north side of Highway 41. The point is number 15 and is 5.79 km from KFYO. The field intensity measured at this point should not exceed 25.5 mV/m, nighttime.

**Direction of 272° True North.** From KFYO transmitter, turn left (north) on FM 1730 and go 0.85 miles to FM 1585. Turn left (west) and go 5.0 miles. Turn left (south) on to Highway 179 and go 0.69 miles to monitor point. The monitor point is on the west side of Highway 179. The point is number 18 and is 7.81 km from KFYO. The field intensity measured at this point should not exceed 16.2 mV/m, nighttime.

**Direction of 321° True North.** From KFYO transmitter, turn left (north) on Fm 1730 and go 0.85 miles to FM 1585. Turn left (west) and go 3 miles to Upland Avenue. Turn right (north) on Upland Avenue and go 2.65 miles to 87th Street. Turn right (east) onto 87th Street and go 100 feet to monitor point on the south side of 87th Street. The point number is 20 and is 7.32 km from KFYO. The field intensity measured at this point should not exceed 26.6 mV/m, nighttime.