

AM BROADCAST STATION LICENSE

LICENSEE: AMERICAN RADIO SYSTEMS LICENSE CORPORATION

1. Community of License . . . : Portland, OR  
2. Transmitter location . . . . : 5516 Southwest Barnes Road, West of Portland, OR  
North Latitude . . . . . : 45° 30' 56"  
West Longitude . . . . . : 122° 43' 56"

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)  
2040 Southwest First Street  
Portland, OR  
5. Remote control location  
2040 Southwest First Street  
Portland, OR

6. Antenna and ground system:  
SEE ATTACHED.

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: NONE REQUIRED.

8. Frequency . . . . . : 970 kHz

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

Antenna input power (kW) :

5.0 Day  Non-directional antenna: current 8.06 amperes: resistance 77 ohms.  
 Directional antenna :  
5.40 Night  Non-directional antenna: current 8.78 amperes: resistance 70 ohms.  
 Directional antenna :

10. Hours of operation : Unlimited.

Conditions . . . . . :  
This updates license authorization to reflect the removal of Obstruction Marking and Lighting requirements.

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  
February 1, 1998

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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FEDERAL  
COMMUNICATIONS  
COMMISSION



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

Dated: April 4, 1997

File No.: BS-970219WO

Call Sign: KUPL

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two (2), vertical, guyed, series-excited, steel radiators of uniform cross-section. Theoretical RMS: 812.72 mV/m at 1 km; Augmented RMS: 885.23 mV/m at 1 km.  $Q = 22.36$ .

Height above Insulators: 165.5 m (192.8°)

Overall Height: 169.2 m

Spacing and Orientation: Towers are spaced 104° apart on a line bearing 78° T.

Non-Directional Antenna: Tower No.1 (W) is used with tower No. 2 (E) detuned. Theoretical Efficiency is 428.09 mV/m/kW at 1 km.

Ground System for tower No. 1 (W) consists of 240 equally spaced, buried, copper radials 137.2 m in length; the ground system for tower No. 2 (E) consists of 240 equally spaced, buried, copper radials 78.9 m in length, plus a 15.2 m by 15.2 m ground screen about the base of each tower.

2. THEORETICAL SPECIFICATIONS

Towers:		#1 (W)	#2 (E)
Phasing:	Night	0°	35°
Field Ratio:	Night	1.0	1.0

3. OPERATING SPECIFICATIONS

Phase Indication*:			
	Night	0°	57°
Antenna Base Current Ratio:			
	Night	1.00	0.580
Antenna Monitor Sample Current Ratio:			
	Night	1.00	0.555

\*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 INTENSITY AT MONITORING POINTS:

**Direction of 78° True North.** From the transmitter site proceed East on Barnes Road, North on Skyline Boulevard, East on Burnside Road, East on Tichner Drive, South of Kingston Avenue to the center of Washington Park, turn East and then North at the South end of the tennis courts and proceed approximately 300 feet. The monitor point is at the stone wall above the steps at the West entrance to the Portland Rose Test Gardens. The field intensity measured at this point should not exceed **117 mV/m, Nighttime.**