FCC Form 352
May 1988

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

AM BROADCAST STATION LICENSE

File No. : BL-890301AE

Call Sign : KXL

LICENSEE:

Alexander Broadcasting Company

1. Community of License : Portland, Oregon

2. Transmitter location : 20900 S.E. Curtis Road
Clackmas County, near
Damascus, Oregon

North latitude : 45° 24' 05 "
West longitude : 122° 26' 47 "

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)
1415 S.E. Ankeny
Multnomah County
Portland Oregon

5. Remote control location:

(Same)

6. Antenna and ground system: Attached

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: 1, 3, 12 & 21 for towers #1(SW) and #2(E). Paragraphs 1, 3, 11 & 21 for towers #3(NE) and #4(NEC).

8. Frequency : 750 kHz

9. Nominal power (kW) : 50 Day 20 Night

Antenna input power (kW) :

52.6 Day ☐ Non-directional antenna: current 32.43 amperes; resistance 50 ohms.
☒ Directional antenna :

21 Night ☐ Non-directional antenna: current 20.5 amperes; resistance 50 ohms.
☒ Directional antenna :

10. Hours of operation: Specified in BP-870331BJ

11. Conditions : Attached

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 is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 AM. Local Time February 1, 1991.

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.

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 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 and 3

Dated: NOV 9 - 1989

JS/ed

FEDERAL COMMUNICATIONS COMMISSION

NOV 16 1989

BC-208 **CP. FILE NO. BP-870331BJ** **FILE NO.** BL-890301AE
June 1980
SPECS. FOR DIRECTONAL OPERATION OF KXL, Portland, OR
FREQ:750 **kHz Nominal Power:** 20 Kw, 50 KW-LS DA-2, U
Antenna Input Power: 52.6 Kw Day
21.0 Kw Night **DA-2**

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. andType of Elements: Four (4) guyed, series-excited, steel radiators of uniform cross-section. Theoretical RMS: 2149.4 mV/m/Km, day; 1387.38 mV/m/Km, night. Standard RMS: 2258.1 mV/m/Km, day; 1457.51 mV/m/Km, night. Q factor: 70.71, day; 44.72, night.

Height above Insulators: Tower #1 & #2 = 100 m. (90°); Tower #3 & #4 = 85.6 m (77°).

Overall Height: Towers #1 & #2 = 101.5 m., Towers #3 & #4 = 87.2 m.

Spacing and Orientation: With tower #1(SW) as reference, tower #2(NE) is spaced 128° on a line bearing 90° True; tower #3(NE) is spaced 70° on a line bearing 24° True; and tower #4(SE) is spaced 169° on a line bearing 67.6° True.

Non-Directional Antenna: Not Authorized

Ground System consists of 120 copper radials extending 100 m. long, plus an additional 120 radials 9.1 m. interspaced between the longer radials.

2. **THEORETICAL SPECIFICATIONS**

Tower	#1(SW)	#2(NW)	#3(NE)	#4(SE)
Phasing: Night	0°	67.5°	166.6°	234.1°
Day	0°	- -	- -	70°
Field Ratio:				
Night	1.0	0.79	0.3	0.24
Day	1.0	- -	- -	1.67

3. **OPERATING SPECIFICATIONS**

Phase Indication*:				
Night	0°	160°	-129.6°	65°
Day	0°	- -	- -	69°
Antenna Base Current Ratio:				
Night	1.00	0.409	0.292	0.810
Day	1.00	- -	- -	1.519
Antenna Monitor Sample Current Ratio:				
Night	1.00	0.416	0.299	0.815
Day	1.00			1.535

*** As indicated by** Potomac Instruments AM-19 (210) Antenna Monitor.

KXL BL-890301AE

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 61.8 degree True North. Leave the KXL transmitter site, and turn left onto South East Curtis Road. Drive 0.05 miles west to SE Dolphin Road. Turn right onto SE Dolphin Road and drive North 0.25 miles to SE Walgren Road. Turn right onto South East Walgren Road, and drive east 0.4 miles to the intersection with SE Royer Road. Turn left onto SE Royer Road and continue 1.1 miles to the intersection with Highway 212. Turn right onto Highway 212, and drive east 4.2 miles to the town of Boring. In Boring, turn right onto SE Walley Road which goes to the sawmill in Boring. Drive east on SE Walley Road 0.2 miles to the Vanport Manufacturing sawmill office. The monitoring point is located 15 feet south of SE Walley Road, and 15 feet west of the large fir tree closest to Vanport Manufacturing, Inc. sign. The field intensity measured at this point should not exceed 63 mV/m Daytime and 21.6 mV/m Nighttime.

Direction of 86.5 degree True North. Leave the KXL transmitter site, and turn left onto SE Curtis Road. Drive 0.05 miles west to SE Dolphin Road. Turn right on to Dolphin Road and drive north 0.25 miles to SE Walgren Road. Turn right onto SE Walgren Road, and drive east 0.4 miles to the intersection with SE Royer Road. Turn left onto SE Royer Road, and continue 1.1 miles to the intersection with Hwy 212 in Damascus. Turn right onto Hwy 212, and drive east 2.5 miles to SE Bartell Road. Turn onto SE Bartell Road, and drive 1.3 miles to the mailbox 16730 SE Bartel Road. Point is located 80 feet north of the mailbox, and on the east side of the road, just off the gravel shoulder. Distance 1.95 miles. The field intensity measured at this point should not exceed 286 mV/m Daytime.

Direction of 120.2 degree True North. Leave the KXL transmitter site, and turn left onto SE Curtis Road. Drive 0.05 miles west to SE Dolphin Road. Turn right onto Dolphin Road and drive north 0.25 miles to SE Walgren Road. Turn right onto SE Walgren Road, and drive east 0.4 miles to the intersection with SE Royer Road. Turn left onto SE Royer Road, and continue 1.1 miles to the intersection with Hwy 212 in Damascus. Turn right onto Hwy 212, and drive east 1.4 miles to SE 232nd. Turn right onto 232nd and travel 2.0 miles to the intersection with Hwy 224. Turn left onto Hwy 224, and travel 2.3 miles to Odell Road. Turn right onto Odell Road, and travel 0.15 miles to the point. Point is 75 feet east of road in Christmas tree farm. Distance 3.42 miles. The field intensity measured at this point should not exceed 89 mV/m Daytime.

Direction of 117.9 degree True North. Leave the KXL transmitter site, and turn left onto SE Curtis Road. Turn right onto SE Dolphin Road and drive North 0.25 miles to SE Walgren Road. Turn right onto SE Walgren Road, and drive east 0.4 miles to the intersection with SE Royer Road. Turn left onto SE Royer Road and continue 1.1 miles to the intersection with Highway 212. Turn right onto Highway 212, and drive east 1.4 miles to the intersection with SE 232nd. Turn right onto 232nd and travel 2.0 miles to the intersection with Hwy 224. Turn left onto Hwy 224 and travel east 1.93 miles to SE Cooper Road. Turn right onto SE Cooper Road, and drive about 500 feet to the driveway on the left side of the road. The point is in the middle of the road at the intersection with the driveway. The field intensity measured at this point should not exceed 19.9 mV/m Nighttime.