



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

OREGON PUBLIC BROADCASTING
7140 S MACADAM AVENUE
PORTLAND OR 97219

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 841

Call Sign: KOPB

License File Number: BZ-20210108AAE

Grant Date: March 26, 2021

This license expires 3:00 a.m.
local time, February 01, 2022.

Non-commercial station

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

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 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. 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.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:
Local Standard Time (Non-Advanced)

Jan.	7:45 AM	5:00 PM	Jul.	4:45 AM	8:00 PM
Feb.	7:15 AM	5:45 PM	Aug.	5:15 AM	7:15 PM
Mar.	6:30 AM	6:15 PM	Sep.	5:45 AM	6:30 PM
Apr.	5:30 AM	7:00 PM	Oct.	6:30 AM	5:30 PM
May	4:45 AM	7:30 PM	Nov.	7:00 AM	4:45 PM
Jun.	4:30 AM	8:00 PM	Dec.	7:45 AM	4:30 PM

Callsign: KOPB

License No.: BZ-20210108AAE

Name of Licensee: OREGON PUBLIC BROADCASTING

Station Location: EUGENE, OR

Frequency (kHz): 1600

Station Class: B

Antenna Coordinates:

Day

Latitude: N 44 Deg 03 Min 05 Sec

Longitude: W 123 Deg 03 Min 48 Sec

Night

Latitude: N 44 Deg 03 Min 05 Sec

Longitude: W 123 Deg 03 Min 48 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 5.0 Night: 1.0

Antenna Input Power (kW): Day: 5.0 Night: 1.08

Antenna Mode: Day: ND Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 5.55 Night: 4.65

Resistance (ohms): Day: 162.5 Night: 50

Non-Directional Antenna: Day

Radiator Height: 184 meters; 107.7 deg

Theoretical Efficiency: 318.65 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1035384	

Night:

Tower No.	ASRN	Overall Height (m)
1	1035384	
2	None	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 329.11
 Standard RMS (mV/m/km):
 Augmented RMS (mV/m/km): Night: 347.61
 Q Factor: Night: 10.8

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	107.7
2	0.7000	161.300	90.0000	90.000	0	107.7

* Tower Reference Switch

0 = Spacing and orientation from reference tower
 1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	86.0	10.0	426.38
2	124.0	10.0	344.54
3	157.0	10.0	155.95
4	168.0	10.0	117.48
5	192.0	48.0	241.40

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	162.3	0.715

Antenna Monitor: POTOMAC INSTRUMENTS AM-19 (204)

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Night Operation:

Radial (Deg. T)	Distance From Transmitter (km)	Maximum Field Strength (mV/m)
12	2.58	23
90	1.67	140
168	0.77	110

Special operating conditions or restrictions:

- 1 Description of Directional Antenna system:
Nighttime: Two vertical, guyed, series excited radiators of uniform cross-section.
Daytime: Non-directional Antenna: West tower #1

Ground system consists of 180-154' equally spaced, buried, copper radials, plus a 35' square copper ground screen under each tower.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 12° True North: From transmitter access road, proceed to Centennial Blvd Turn right on Centennial and proceed east approximately 0.35 miles. Turn left (North) at Garden Way. Go 1.05 miles to Harlow Road. Turn left (West) on Harlow Road and go 0.3 miles to Van Duyn Street. Turn right (north) on Van Duyn Street, 0.25 miles to Western Street. Van Duyn Street changes name to Satre Street at Western Street intersection. Take measurement in center of Western Street, approximately 40 feet east of east corner of Van Duyn Street (Satre Street).

Direction of 90° True North: From the transmitter site, proceed to Centennial Blvd. Turn right (east) on Centennial Blvd and proceed east approximately 0.95 miles to Aspen Street. Turn right (south) on Aspen, go approximately 0.3 miles to Diamond Street. Take measurement in center of Diamond Street, approximately 100 feet east of east edge of Aspen Street.

Direction of 168° True North: From the transmitter site, proceed to Centennial Blvd. Turn left on Centennial and proceed west approximately 1.0 miles to Country Club Road. Turn left on Country Club and proceed approximately 0.5 miles bearing to the right, until reaching Coburg road. Go approximately 0.8 miles, across the river, to East Broadway. Turn left on East Broadway and proceed east approximately 0.55 miles to East 11th Avenue where East Broadway becomes Franklin Blvd. Continue on Franklin Blvd. approximately 0.7 miles to Walnut Street and turn right. Take measurement 150 feet south of southeast corner of Franklin Blvd. and Walnut Street.

- 2 Oregon Public Broadcasting requests waiver of 47. C.F.R. §73.1125 to operate the proposed facility as a "satellite" of co-owned noncommercial educational FM station KOPB-FM, Portland, Oregon (Facility ID No. 50607). Based upon the specific representations contained therein, the waiver request IS GRANTED. Applicant shall abide by each representation proffered in the waiver request.

*** END OF AUTHORIZATION ***