



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

CITICASTERS LICENSES, INC.
 2625 S. MEMORIAL DRIVE
 SUITE A
 TULSA OK 74129

Son Nguyen
 Supervisory Engineer
 Audio Division
 Media Bureau

Facility Id: 11271

Call Sign: KEX

License File Number: BL-20021010ABO

Grant Date: February 05, 2004

This license expires 3:00 a.m.
 local time, February 01, 2006.

This authorization re-issued to add the monitor point limits.2/26/04

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.	4:30 AM	8:00 PM
Feb.	7:15 AM	5:30 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.	7:15 AM	4:45 PM
Jun.	4:15 AM	8:00 PM	Dec.	7:45 AM	4:30 PM

Callsign: KEX

License No.: BL-20021010ABO

Name of Licensee: CITICASTERS LICENSES, INC.

Station Location: PORTLAND, OR

Frequency (kHz): 1190

Station Class: A

Antenna Coordinates:

Day

Latitude: N 45 Deg 25 Min 20 Sec

Longitude: W 122 Deg 33 Min 57 Sec

Night

Latitude: N 45 Deg 25 Min 20 Sec

Longitude: W 122 Deg 33 Min 57 Sec

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

Nominal Power (kW): Day: 50.0 Night: 50.0

Antenna Input Power (kW): Day: 50.0 Night: 52.6

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 31.6 Night: 32.4

Resistance (ohms): Day: 50 Night: 50

Non-Directional Antenna: Day

Radiator Height: 138.7 meters; 196 deg

Theoretical Efficiency: 403.9 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1037776	

Night:

Tower No.	ASRN	Overall Height (m)
1	1037777	
2	1037776	
3	1037778	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 2824.4
 Standard RMS (mV/m/km):
 Augmented RMS (mV/m/km): Night: 2977.9
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.5500	-118.000	120.0000	270.000	0	196.0
2	1.0000	0.000	35.0000	285.000	0	196.0
3	0.6100	60.000	120.0000	90.000	0	196.0

* 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	40.0	10.0	965.61
2	46.5	13.0	836.86
3	53.0	12.0	692.02
4	59.0	10.0	568.10
5	64.0	10.0	482.80
6	69.0	10.0	410.38
7	74.0	10.0	1050.00
8	80.5	13.0	421.65
9	87.0	10.0	418.43
10	92.0	10.0	418.43
11	97.0	10.0	437.74
12	102.0	10.0	461.88
13	107.0	10.0	495.68
14	114.5	15.0	563.27
15	122.0	15.0	611.55
16	129.5	15.0	526.26
17	137.0	15.0	326.12
18	146.0	16.0	241.40
19	154.0	13.6	643.74
20	160.8	10.0	1021.93

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-98.1	0.581
2	0	1
3	57.3	0.567

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901

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)
40	8.1	32.5
74	6.16	51.38
122	5.34	52.5
146	5.57	30.23
160.8	4.52	111.38

Special operating conditions or restrictions:

- 1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Special operating conditions or restrictions:

2 Direction of Monitoring Points:

Direction of 40 degree true North. From the KEX entrance proceed West on Lawnfield road 0.43 km (0.27 miles) to the I-205 freeway entrance ramp. Enter the freeway Northbound and proceed 6.92 km (4.3 miles) to the Foster Road Exit 17 and proceed East on Foster Road 4.96 km (3.08 miles) to S.E. 158th Avenue and turn North, proceed 0.19 km (0.12) miles to the monitoring point located 46 meters (150 feet) southwest of the intersection of S.E. 158th Avenue and Martin Street.

Direction of 74 degrees true North. From monitoring point No. 1, proceed South on S.E. 158th Avenue 0.19 km (0.12 miles) to Foster Road and turn left proceeding 1.64 km (1.02 miles) to S.E. 172nd Avenue and turn right proceeding South 3.0 km (1.87 miles) to Hagen Road and turn right proceeding West 0.8 km (0.5 miles) to S.E. 162nd Avenue and turn left proceeding south on S.E. 162nd Avenue 0.63 km (0.39 miles) to the entrance to the Pleasant Valley Golf Club. Proceed Northeast on private drive 0.72km (0.45 miles) to the greenkeepers implement building. The monitoring point located on the golf tee 7.6 meters (25 feet) Northeast of the storage buildings.

Direction of 122 degrees true North. From Monitoring Point No. 2, proceed southwest on private drive to S.E. 162nd Avenue and turn left proceeding South 0.64 km (0.4 miles) to Sunnyside Street and turn left proceeding East 0.9 km (0.55 miles) to S.E. 172nd Avenue and turn right proceeding South 1.56 km (0.97 miles) to S.E. Armstrong Circle and turn right proceeding Southwest 0.34 km (0.21 miles) to Oregon Highway 212 and turn right proceeding West 1.37 km (0.85 miles) to Highway 224 and turn left proceeding South 2.09 km (1.3 miles) crossing the Clackamas River, to Clackamas River Road and turn right proceeding West 1.06 km (0.66 miles) to a dirt road and turn right. The monitoring point is located 30.5 meters (100 feet) North of Clackamas River Road on the dirt road.

3 Direction of 146 degrees true North. From Monitoring Point No. 3, proceed East on Clackamas River Road 1.27 km (0.79 miles) to South Hattan Road and turn right proceeding South 0.24 km (0.15 miles) to Gronlund Road and turn right proceeding West 1.77 km (1.1 miles) to South Bradley Road and turn left proceeding South 0.39 km (0.24 miles) to South Outlook Drive and turn right proceeding West 0.39 km (0.24 miles) to South Archer Drive and turn left proceeding southwest 0.21 km (0.13 miles) to South Arrowhead Drive and turn left proceeding 0.21 km (0.13 miles). The monitoring point is located at the edge of the driveway at 16472 South Arrowhead Drive.

Direction of 160.8 degrees true North. From Monitoring Point No. 4, proceed Northeast on South Arrowhead Drive 0.21 km (0.13 miles) to South Archer Drive and turn right proceeding Northeast 0.21 km (0.13 miles) to South Outlook Road and turn right proceeding 0.39 km (0.24 miles) to Bradley road and turn left proceeding North 0.51 km (0.32 miles) to Forsythe road and turn left proceeding West 2.64 km (1.64 miles) to Beaton Road and turn right proceeding North 0.32 km (0.20 miles) The monitoring point is located 23meters (75 feet) East of Beaton Road along the North edge of a small drainage canal and on the dirt access road.

Special operating conditions or restrictions:

- 4 Ground System: 120 equally spaced, buried, copper radials about the base of each tower, each 137 meters plus 120 interspersed radials 68 meters in length in length except where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus a copper ground screen 9.1 meters square, about the base of each tower.

- 5 This authorization is conditioned on the final outcome of the pending appeal filed on behalf of WOWO(AM), Ft. Wayne, Indiana (and WKGA, WLIB) appealing the Commission act of December 23, 1999 granting license BL-19981230AE to WOWO as a Class B facility. Should WOWO be reinstated to Class A status, this authorization shall become null and revert back to its previously licensed parameters (BL-19910906AD).

*** END OF AUTHORIZATION ***