



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

IHM LICENSES, LLC  
7136 S. YALE AVENUE  
SUITE 501  
TULSA OK 74136

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 48386

Call Sign: KJR

License File Number: BL-20010320ABX

Grant Date: March 25, 2002

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

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. | 8:00 AM | 4:45 PM | Jul. | 4:30 AM | 8:00 PM |
| Feb. | 7:15 AM | 5:30 PM | Aug. | 5:00 AM | 7:30 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  | 4:30 AM | 7:45 PM | Nov. | 7:15 AM | 4:30 PM |
| Jun. | 4:15 AM | 8:00 PM | Dec. | 7:45 AM | 4:15 PM |

Callsign: KJR

License No.: BL-20010320ABX

Name of Licensee: IHM LICENSES, LLC

Station Location: SEATTLE, WA

Frequency (kHz): 950

Station Class: B

Antenna Coordinates:

Day

Latitude: N 47 Deg 13 Min 56 Sec

Longitude: W 122 Deg 23 Min 22 Sec

Night

Latitude: N 47 Deg 13 Min 56 Sec

Longitude: W 122 Deg 23 Min 22 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: 50.0

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 32.45 Night: 32.45

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1033501 |                    |
| 2         | 1033499 |                    |
| 3         | 1033500 |                    |
| 4         | 1046357 |                    |
| 5         | 1046358 |                    |

Night:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1033501 |                    |
| 2         | 1033499 |                    |
| 3         | 1033500 |                    |
| 4         | 1046357 |                    |
| 5         | 1046358 |                    |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2393.6 Night: 2393.6

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 2518.1 Night: 2518.1

Q Factor: Day: 84.82 Night: 84.82

Theoretical Parameters:

Day 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                  | 90.5          |
| 2         | 0.8350      | 109.000        | 99.1000        | 233.500            | 0                  | 90.5          |
| 3         | 0.6930      | 153.100        | 100.6000       | 173.000            | 0                  | 90.5          |
| 4         | 0.6130      | -127.800       | 84.1000        | 335.400            | 0                  | 90.5          |
| 5         | 0.4390      | -94.900        | 160.3000       | 204.000            | 0                  | 90.5          |

\* 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       | 289.5                    | 40.0        | 819.60                                     |

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                  | 90.5          |
| 2         | 0.8350      | 109.000        | 99.1000        | 233.500            | 0                  | 90.5          |
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|---------|--------------------------|-------------|--------------------------------------------|
| 1       | 289.5                    | 40.0        | 819.60                                     |

Day Directional Operation:

| Twr. Phase<br>No. (Deg.) | Antenna Monitor<br>Sample Current Ratio |
|--------------------------|-----------------------------------------|
| 1 0                      | 1                                       |
| 2 99.3                   | 0.612                                   |
| 3 155.8                  | 0.668                                   |
| 4 -134.8                 | 0.585                                   |
| 5 -174                   | 0.338                                   |

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| Twr. Phase<br>No. (Deg.) | Antenna Monitor<br>Sample Current Ratio |
|--------------------------|-----------------------------------------|
| 1 0                      | 1                                       |
| 2 99.3                   | 0.612                                   |
| 3 155.8                  | 0.668                                   |
| 4 -134.8                 | 0.585                                   |
| 5 -174                   | 0.338                                   |

Antenna Monitor: POTOMAC INSTRUMENTS 1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

| Radial<br>(Deg. T) | Distance From Transmitter<br>(kM) | Maximum Field Strength<br>(mV/m) |
|--------------------|-----------------------------------|----------------------------------|
| 105.5              | 8.48                              | 23.8                             |
| 174                | 6.92                              | 19.6                             |
| 289.5              | 5.19                              | 98.4                             |

Night Operation:

| Radial<br>(Deg. T) | Distance From Transmitter<br>(kM) | Maximum Field Strength<br>(mV/m) |
|--------------------|-----------------------------------|----------------------------------|
| 105.5              | 8.48                              | 23.8                             |
| 174                | 6.92                              | 19.6                             |
| 289.5              | 5.19                              | 98.4                             |

## Special operating conditions or restrictions:

## 1 Direction of Monitoring Points:

Direction of 105.5° True North. Take 29th Avenue East from transmitter site 0.3km (0.2 mi) to River Road. Turn right onto River Road. Proceed east-southeast on River Road 8.3 km (5.2 mi) to Meridian Street North. Turn left onto Meridian Street North. Proceed north 3.4 km (2.1 mi) to Chrisella road. Turn right onto Chrisella road. Proceed southeast on Chrisella Road 1.7km (1.1 mi) to Karshner road. Point is located on south side of Karshner Road, 5 meters (125 feet) from "Dead End" sign at intersection of Chrisella Road and Karshner Road.

Direction of 174° True North. Take 29th Avenue East from transmitter site 0.3 km (0.2mi) to River Road. Turn left onto River Road. Proceed west-northwest on River Road 0.7 km (0.4 mi) to Pioneer Way. Turn left onto Pioneer Way. Proceed south-southwest 1.4 km (0.9 mi) to Waller Road. Turn right onto Waller Road. Proceed south on Waller Road 6.5 km (4.0 mi) to 96th Street East. Turn left onto 96th Street East. Proceed east 0.6 km (0.4 mi) to 3707 96th Street East. Point is located on south side of road between mailbox and driveway of residence.

Direction of 289.5° True North. Take 29th Avenue East from transmitter site 0.3 km (0.2 mi) to River Road. Turn left onto River Road. Proceed west-northwest on River Road 1.3 km (0.8 mi) to Interstate Highway 5 entrance ramp. Take I-5 south 4.3 km (2.7 mi) to exit for Highway 16, toward the Tacoma Narrows Bridge. Take the first exit onto Sprague Avenue. Travel north on Sprague Avenue 1.4 km (0.9 mi) to South 15th Street. Turn right onto South 15th Street. Proceed east 0.6 km (0.4 mi) to Sheridan Avenue. Turn left onto Sheridan Avenue. Point is located on east side of street on sidewalk at steps to residence at 1419 Sheridan Avenue.

Description of Ground System: Ground system consists of 120 copper radials per tower 88 m long or terminating at property line or transverse copper strap plus 120 copper radials 20 m long interspersed between longer radials.

- 2 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.

\*\*\* END OF AUTHORIZATION \*\*\*