



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

BONNEVILLE INTERNATIONAL CORPORATION
55 NORTH 300 WEST
2ND FLOOR
SALT LAKE CITY UT 84101



Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 6362

Call Sign: KIRO

License File Number: BMML-20211018AAG

Grant Date: August 12, 2022

This license expires 3:00 a.m.
local time, February 01, 2030.

This license modifies license no.: BML-20070411ADB

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	8:15 PM	Dec.	7:45 AM	4:15 PM

Callsign: KIRO

License No.: BMML-20211018AAG

Name of Licensee: BONNEVILLE INTERNATIONAL CORPORATION

Station Location: SEATTLE, WA

Frequency (kHz): 710

Station Class: A

Antenna Coordinates:

Day

Latitude: N 47 Deg 23 Min 55 Sec

Longitude: W 122 Deg 26 Min 00 Sec

Night

Latitude: N 47 Deg 23 Min 55 Sec

Longitude: W 122 Deg 26 Min 00 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: 50.00 Night: 52.65

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 8.83 Night: 32.45

Resistance (ohms): Day: 642 Night: 50

Non-Directional Antenna: Day

Radiator Height: meters; 134 deg

Theoretical Efficiency: 334.74 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1037821	

Night:

Tower No.	ASRN	Overall Height (m)
1	1037821	
2	1037822	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 2264.35
 Standard RMS (mV/m/km):
 Augmented RMS (mV/m/km): Night: 2485.66
 Q Factor: Night: 70.71

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	134.0
2	1.1770	49.000	160.0000	130.500	0	134.0

* 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	23.0	64.0	3729.51
2	55.0	40.0	2701.20
3	75.0	40.0	1287.48
4	95.5	41.0	313.82
5	165.5	41.0	313.82
6	186.0	40.0	1366.33
7	238.0	64.0	3786.21
8	271.0	66.0	3024.57
9	310.5	79.0	2126.89
10	350.0	66.0	2986.14

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	61.4	1.108

Antenna Monitor: POTOMAC INSTRUMENTS AM 1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 Ground system consists of 120 equally spaced, buried copper wire radials 137.2 meters in length about the base of each tower, except where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus 120 interspersed radials 15.2 meters in length about the base of each tower.
- 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 ***