



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

Ann Gallagher
Senior Engineer
Audio Division
Media Bureau

Facility Id: 20352

Call Sign: KHTK

License File Number: BMML-20110217ADD

Grant Date: April 26, 2011

This license expires 3:00 a.m.
local time, December 01, 2013.

This authorization re-issued to correct the common point impedance and the phase value for tower 1 (day).

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

Name of Licensee: BONNEVILLE INTERNATIONAL CORPORATION

Station Location: SACRAMENTO, CA

Frequency (kHz): 1140

Station Class: B

Antenna Coordinates:

Day

Latitude: N 38 Deg 23 Min 34 Sec

Longitude: W 121 Deg 11 Min 51 Sec

Night

Latitude: N 38 Deg 23 Min 34 Sec

Longitude: W 121 Deg 11 Min 51 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: 52.7 Night: 52.7

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 20 Night: 20

Resistance (ohms): Day: 131.6 Night: 131.6

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1033376	
2	1033377	
3	1033378	
4	1033379	
5	1033380	

Night:

Tower No.	ASRN	Overall Height (m)
1	1033376	
2	1033377	
3	1033378	
4	1033379	
5	1033380	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2108.9 Night: 2156.52

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 2245.7 Night: 2299.14

Q Factor: Day: 70.7 Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.1200	-130.800	330.0000	251.200	0	100.0
2	0.4910	-114.400	150.0000	247.500	0	100.0
3	1.0000	0.000	0.0000	0.000	0	100.0
4	0.5960	55.800	205.1000	73.900	0	100.0
5	0.1450	107.400	396.8000	72.800	0	100.0

* 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	185.0	20.0	4700.00
2	195.0	20.0	4150.00
3	205.0	20.0	3300.00

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.2490	-160.100	330.0000	251.200	0	100.0
2	0.8090	-97.300	150.0000	247.500	0	100.0
3	1.0000	0.000	0.0000	0.000	0	100.0
4	0.6310	50.400	205.1000	73.900	0	100.0
5	0.2120	117.000	396.9000	72.900	0	100.0

* 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	0.0	20.0	635.69
2	13.0	20.0	637.14
3	31.0	42.0	547.18
4	41.5	21.0	399.92
5	52.0	26.0	286.46
6	72.0	40.0	329.92
7	88.0	32.0	233.35
8	97.0	18.0	143.23
9	111.0	14.0	67.59
10	118.0	14.0	56.33
11	125.0	14.0	53.11
12	132.5	15.0	56.33
13	140.0	10.0	74.03
14	145.0	10.0	128.75
15	150.0	10.0	378.20
16	165.0	30.0	2639.32
17	185.0	40.0	5060.86
18	205.0	40.0	3226.73
19	230.0	44.0	1778.33
20	252.0	44.0	1778.33
21	275.0	46.0	1858.79
22	300.0	36.0	3299.16
23	335.0	34.0	3049.71
24	350.0	20.0	705.05

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 -142.3	0.182
2 -103.8	0.486
3 0	1
4 51.1	0.587
5 101	0.176

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 -152.8	0.331
2 -88.9	0.79
3 0	1

Night Directional Operation:

Twr. Phase No. (Deg.)		Antenna Monitor Sample Current Ratio
4	50.5	0.633
5	114.6	0.215

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The licensee shall perform the measurements described in Section 73.155 at least once within each 24-month period.

- 2 The ground system consists of 120 equally spaced, buried copper radials, each 83.84 meters in length 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.

- 3 The November sunset time is modified from 4:45 PM local standard time (non-advanced) to 5:00 PM local standard time, as previously authorized.

*** END OF AUTHORIZATION ***