



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: 52515

Call Sign: KTAR

License File Number: BMML-20130718AHZ

Grant Date: January 30, 2014

This license expires 3:00 a.m.  
local time, October 01, 2021.

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

Callsign: KTAR

License No.: BMML-20130718AHZ

Name of Licensee: BONNEVILLE INTERNATIONAL CORPORATION

Station Location: PHOENIX, AZ

Frequency (kHz): 620

Station Class: B

Antenna Coordinates:

Day

Latitude: N 33 Deg 28 Min 44 Sec

Longitude: W 112 Deg 00 Min 06 Sec

Night

Latitude: N 33 Deg 28 Min 44 Sec

Longitude: W 112 Deg 00 Min 06 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: 5.0

Antenna Input Power (kW): Day: 5.0 Night: 5.4

Antenna Mode: Day: ND Night: DA

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

Current (amperes): Day: 10 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Non-Directional Antenna: Day

Radiator Height: 121.9 meters; 90.7 deg

Theoretical Efficiency: 307.38 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1001096 |                    |

Night:

| Tower No. | ASRN    | Overall Height (m) |
|-----------|---------|--------------------|
| 1         | 1001096 |                    |
| 2         | 1001095 |                    |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 667.88  
 Standard RMS (mV/m/km):  
 Augmented RMS (mV/m/km): Night: 718.04  
 Q Factor: Night:

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                  | 90.7          |
| 2         | 0.5500      | 82.000         | 180.0000       | 27.000             | 0                  | 68.0          |

\* 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       | 27.0                     | 58.0        | 756.39                                     |
| 2       | 56.0                     | 28.0        | 547.18                                     |
| 3       | 207.0                    | 54.0        | 724.20                                     |
| 4       | 240.0                    | 60.0        | 836.86                                     |
| 5       | 355.0                    | 52.0        | 571.32                                     |

Night Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio |
|----------|--------------|--------------------------------------|
| 1        | 0            | 1                                    |
| 2        | 70.8         | 0.828                                |

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.

Special operating conditions or restrictions:

- 2 The ground system consists of 240 equally spaced, buried copper radials about each tower alternately 200' and 400' in length. Radials between towers terminate midway on a 4" copper strap. #2(N) tower has a 48' x 48' ground screen and the #1(S) tower has a 96' ground screen.

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