



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

Authorizing Official:

Official Mailing Address:

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

Arthur E. Doak  
Senior Engineer  
Audio Division  
Media Bureau

Facility Id: 65481

Call Sign: KZZO

License File Number: BLH-19890807KA

Grant Date: January 31, 1990

This license expires 3:00 a.m.  
local time, December 01, 1990.

This license covers Permit No.: BPH-880405ID  
as modified by Permit No.: BMPH-890717IA

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.

Callsign: KZZO

License No.: BLH-19890807KA

Name of Licensee: BONNEVILLE INTERNATIONAL CORPORATION

Station Location: CA-SACRAMENTO

Frequency (MHz): 100.5

Channel: 263

Class: B

Hours of Operation: Unlimited

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

Transmitter output power:

Antenna type: Directional

Description: ODD ODD890807KA

Antenna Coordinates: North Latitude: 38 deg 38 min 30 sec  
West Longitude: 121 deg 05 min 25 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	115	115
Height of radiation center above ground (Meters):	46	46
Height of radiation center above mean sea level (Meters):	285	285
Height of radiation center above average terrain (Meters):	100	100

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 67 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

1 THE RELATIVE FIELD STRENGTH OF NEITHER THE MEASURED HORIZONTALLY NOR VERTICALLY POLARIZED RADIATION COMPONENT SHALL EXCEED AT ANY AZIMUTH THE VALUE INDICATED ON THE RADIATION PATTERN AUTHORIZED BY THIS PERMIT.

. THE RELATIVE FIELD STRENGTH OF 1.0 ON THE RADIATION PATTERN HEREIN AUTHORIZED CORRESPONDS TO THE FOLLOWING EFFECTIVE RADIATED POWER:

. 115 KILOWATTS

. PRINCIPAL MINIMA AND THEIR ASSOCIATED FIELD STRENGTH LIMITS:

- . 0 DEGREES TRUE: 14.9 KILOWATTS
- . 13 DEGREES TRUE: 21.3 KILOWATTS
- . 140 DEGREES TRUE: 36.1 KILOWATTS
- . 220 DEGREES TRUE: 41.4 KILOWATTS

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. NO OBSTRUCTION MARKING OR LIGHTING CONDITIONED ON:

- (1) THE STRUCTURE DOES NOT EXCEED 221 FEET AT THE SITE.
- (2) THE KRAK TOWER REMAINS OBSTRUCTION MARKED AND LIGHTED.,

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