United States of America

FEDERAL COMMUNICATIONS COMMISSION

FM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

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

Robert D. Greenberg
Supervisory Engineer
Audio Division
Media Bureau

Facility ID: 65481

Call Sign: KZZO

Permit File Number: BMPH-19890717IA

Grant Date: August 15, 1989

The authority granted herein has no effect on the expiration date of the underlying construction permit.

This Permit Modifies Permit No.: BPH-19880405ID

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Callsign: KZZO Permit No.: BMPH-19890717IA

Name of Permittee: 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: As required to achieve authorized ERP.

Antenna type: Directional

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 Neither the horizontally nor vertically polarized radiation component shall exceed the following value at any azimuth.
115 KW

Special operating conditions or restrictions:

2 Each component shall be restricted to the following values at the azimuths specified below.
14.9 KW AT 0 DEG TRUE
21.3 KW AT 13 DEG TRUE
41.4 KW AT 220 DEG TRUE
36.1 KW AT 140 DEG TRUE

3 In addition, neither radiation component shall increase at a rate exceeding 0.2 dB per degree from the azimuths of restricted radiation specified above nor exceed a maximum-to-minimum ratio of 15 dB. The rms of the vertically polarized radiation pattern shall not exceed that of the horizontally polarized radiation pattern.

4 The horizontal and vertical radiation patterns as submitted with the application for construction permit are authorized by this permit. Changes made to these patterns will require the filing of FCC Form 301 for commercial stations and FCC Form 340 for educational stations to modify this construction permit BEFORE PROGRAM TESTS ARE AUTHORIZED. BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances.
Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.
BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit an affidavit from a licensed surveyor to establish that the directional antenna has been oriented at the proper azimuth.

5 BEFORE PROGRAM TEST AUTHORITY IS AUTHORIZED BY THE COMMISSION PERMITTEE SHALL SUBMIT DOCUMENTATION OF COMPLIANCE WITH THIS SPECIAL OPERATING CONDITION ALONG WITH THE FORM 302, APPLICATION FOR LICENSE, AND THE REQUEST FOR PROGRAM TEST AUTHORITY. THE PERMITTEE SHALL, UPON COMPLETION OF CONSTRUCTION AND DURING THE EQUIPMENT TEST PERIOD, MAKE PROPER RF FIELD STRENGTH MEASUREMENTS THROUGHOUT THE WHITE ROCK TRANSMITTER SITE AREA TO DETERMINE IF THERE ARE ANY AREAS THAT EXCEED THE ANSI, EPA AND FCC SPECIFIED GUIDELINES FOR HUMAN EXPOSURE TO RADIOFREQUENCY RADIATION. THESE MEASUREMENTS MUST INCLUDE THE EFFECTS OF KWOD'S AUXILIARY FACILITY AS WELL AS KWOD'S MAIN FACILITY. IF NECESSARY, A FENCE MUST BE ERECTED AT SUCH DISTANCES AND IN SUCH A MANNER AS TO PREVENT THE EXPOSURE OF HUMANS TO RADIOFREQUENCY RADIATION IN EXCESS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE GUIDELINES (OST BULLETIN NO. 65, OCTOBER 1985). THE FENCE MUST BE OF A TYPE WHICH WILL PRECLUDE CASUAL OR INADVERTENT ACCESS, AND MUST INCLUDE WARNING SIGNS AT APPROPRIATE INTERVALS WHICH DESCRIBE THE NATURE OF THE HAZARD. ANY AREAS WITHIN THE FENCE FOUND TO EXCEED THE RECOMMENDED GUIDELINES MUST BE CLEARLY MARKED WITH APPROPRIATE VISUAL WARNING SIGNS.

*** END OF AUTHORIZATION ***