



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

Arthur E. Doak
Senior Engineer
Audio Division
Media Bureau

Facility ID: 71767

Grant Date: October 28, 1992

Call Sign: KKFN

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

Permit File Number: BMPH-19920521IA

This Permit Modifies Permit No.: BPH-19911009IC

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.

Name of Permittee: BONNEVILLE INTERNATIONAL CORPORATION

Station Location: CO-LONGMONT

Frequency (MHz): 104.3

Channel: 282

Class: C1

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: Non-Directional

Antenna Coordinates: North Latitude: 40 deg 05 min 47 sec
West Longitude: 104 deg 54 min 04 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	58	58
Height of radiation center above ground (Meters):	334	334
Height of radiation center above mean sea level (Meters):	885	885
Height of radiation center above average terrain (Meters):	367	367

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 355 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 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.
- 2 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.

Special operating conditions or restrictions:

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The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this construction permit.

A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:

58 kilowatts

Principal minima and their associated field strength limits:
275-300 degrees True: 18.25 kilowatts

**** THIS IS A SECTION 73.215 CONTOUR PROTECTION GRANT ****
***** AS REQUESTED BY THIS APPLICANT *****

Before equipments tests with the facilities authorized herein are begun, permittee shall contact the Radio Frequency Management Office of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories in Boulder, Colorado, at the address specified in Section 73.1030(b)(2) of the Commission's Rules. Permittee will agree with the staff of the Radio Frequency Management Office upon a suitable measurement procedure for determining the field strength of the signal radiated by the permittee's authorized facilities at the coordinates of the Table Mountain Radio Receiving Zone specified in Section 73.1030(b) of the Commission's Rules. After reaching an agreement on a suitable procedure, permittee will begin equipment tests with the facilities authorized herein, will implement the agreed-upon procedure, and will make sufficient measurements to establish that the field strength of the signal radiated by the permittee's authorized facilities at the specified Table Mountain Radio Receiving Zone coordinates does not exceed 90.93 dBu.

In the event that the measured field strength at the specified Table Mountain Radio Receiving Zone coordinates resulting from the operation of the permittee's authorized facilities exceeds 90.93 dBu, program tests will not be undertaken by the permittee. The permittee will instead submit an application for modification of this construction permit specifying means acceptable to the Radio Frequency Management Office of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories to reduce the field strength at the specified Table Mountain Radio Receiving Zone coordinates resulting from the operation of the permittee's authorized facilities to a level not exceeding 90.93 dBu.

The permittee will serve a copy of the application for license (FCC Form 302 and associated exhibits) on the Radio Frequency Management Office at the address specified in Section 73.1030(b)(2) of the Commission's Rules on or before the date the application is tendered at the Commission's offices in Washington, D.C. Grant of the license will occur only with the concurrence of the National Oceanographic and Atmospheric Administration's Environmental Research Laboratories as to the adequacy of the protection afforded to the Table Mountain Radio Receiving Zone by the permittee's authorized facilities.

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Special operating conditions or restrictions:

*** END OF AUTHORIZATION ***