United States of America

FEDERAL COMMUNICATIONS COMMISSION

FM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

RIVERBEND COMMUNICATIONS, LLC
400 W. SUNNYSIDE ROAD
IDAHO FALLS ID 83402

Mary Houser
Supr Applications Examiner
Audio Division
Media Bureau

Facility ID: 33447

Call Sign: KTHK

Permit File Number: BMPH-19930217IA

Grant Date: August 31, 1993

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

This Permit Modifies Permit No.: BPH-19890412MA

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: KTHK Permit No.: BMPH-19930217IA

Name of Permittee: RIVERBEND COMMUNICATIONS, LLC

Station Location: ID-IDAHO FALLS

Frequency (MHz): 105.5

Channel: 288

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: Directional

Antenna Coordinates: North Latitude: 43 deg 21 min 06 sec

West Longitude: 112 deg 00 min 22 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	100	100
Maximum effective radiated power (kW):	100	100
Height of radiation center above ground (Meters):	52	52
Height of radiation center above mean sea level (Meters):	801	801
Height of radiation center above average terrain (Meters):	201	201

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 60 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:

3 BEFORE PROGRAM TESTS ARE AUTHORIZED, PERMITTEE SHALL SUBMIT AN AFFIDAVIT THAT THE INSTALLATION OF THE DIRECTIONAL ANTENNA SYSTEM WAS OVERSEEN BY A QUALIFIED ENGINEER. THIS AFFIDAVIT SHALL INCLUDE A CERTIFICATION BY THE ENGINEER THAT THE ANTENNA WAS INSTALLED PURSUANT TO THE MANUFACTURER'S INSTRUCTIONS AND THE QUALIFICATIONS OF THE CERTIFYING ENGINEER.
-
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:
-
100 KILOWATTS
-
PRINCIPAL MINIMA AND THEIR ASSOCIATED FIELD STRENGTH LIMITS:
-

110 DEGREES TRUE:	9.49 KILOWATTS
120 DEGREES TRUE:	7.90 KILOWATTS
130 DEGREES TRUE:	7.45 KILOWATTS
280 DEGREES TRUE:	58.22 KILOWATTS
320 DEGREES TRUE:	54.02 KILOWATTS

-
PERMITTEE/LICENSEE SHALL SUBMIT A COPY OF THE VERTICAL PLANE PATTERN FOR THE -0.75 DEGREE BEAM TILT ANTENNA ALONG WITH FORM 302-FM APPLICATION FOR LICENSE.
-
-
BEFORE PROGRAM TESTS COMMENCE, SUFFICIENT MEASUREMENTS SHALL BE MADE TO ESTABLISH THAT THE OPERATION AUTHORIZED IN THIS CONSTRUCTION PERMIT IS IN COMPLIANCE WITH THE SPURIOUS EMMISSIONS REQUIREMENTS OF SECTIONS 73.317(b) THROUGH 73.317(d) OF THE COMMISSION'S RULES. ALL MEASUREMENTS MUST BE MADE WITH STATIONS KFTZ(FM) AND KPVT(FM) SIMULTANEOUSLY UTILIZING THE SHARED ANTENNA. THESE MEASUREMENTS SHALL BE SUBMITTED TO THE COMMISSION ALONG WITH FCC FORM 302-FM APPLICATION FOR LICENSE.
-
-
THE PERMITTEE/LICENSEE IN COORDINATION WITH OTHER USERS OF THE SITE MUST REDUCE POWER OR CEASE OPERATION AS NECESSARY TO PROTECT PERSONS HAVING ACCESS TO THE SITE, TOWER OR ANTENNA FROM RADIOFREQUENCY RADIATION IN EXCESS OF FCC GUIDELINES.
-
-
THE PERMITTEE/LICENSEE SHALL, UPON COMPLETION OF CONSTRUCTION AND DURING THE EQUIPMENT TEST PERIOD, MAKE PROPER RF FIELD STRENGTH MEASURMENTS THROUGHOUT THE AREA TO DETERMINE IF THERE ARE ANY AREAS THAT EXCEED THE ANSI AND FCC SPECIFIED GUIDELINES FOR HUMAN EXPOSURE TO RADIOFREQUENCY RADIATION. IF A FENCE IS NECESSARY, IT 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

Special Operating Conditions or Restrictions:

GUIDELINES MUST BE CLEARLY MARKED WITH APPROPRIATE VISUAL WARNING SIGNS. DOCUMENTATION DEMONSTRATING COMPLIANCE WITH THE ANSI RADIOFREQUENCY RADIATION LIMIT MUST BE SUBMITTED ALONG WITH FCC FORM 302-FM, APPLICATION FOR LICENSE.

*** END OF AUTHORIZATION ***