



United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

BLUE RIDGE RADIO, INC.
ATTN: DEBORAH STRINGER
104 PINE CONE POINTE
GALAX VA 24333

Dale E. Bickel
Senior Engineer
Audio Division
Media Bureau

Facility ID: 5986

Grant Date: March 19, 1990

Call Sign: WBRF

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

Permit File Number: BMPH-19891031IA

This permit modifies Permit No.: BPH-870102IA
as extended by Permit No.: BMPH-900201JO

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: BLUE RIDGE RADIO, INC.

Station Location: VA-GALAX

Frequency (MHz): 98.1

Channel: 251

Class: C

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: 36 deg 33 min 34 sec
West Longitude: 80 deg 49 min 25 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	100	96
Height of radiation center above ground (Meters):	63	63
Height of radiation center above mean sea level (Meters):	149	149
Height of radiation center above average terrain (Meters):	535	535

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 75 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 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. 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:
179 DEGREES TRUE: 10 KILOWATTS
133 DEGREES TRUE: 26.5 KILOWATTS
138 DEGREES TRUE: 23 KILOWATTS
- . 3. 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.

*** END OF AUTHORIZATION ***