

ENGINEERING REPORT
MINOR CONSTRUCTION
PERMIT APPLICATION
FOR
WOXL-FM – CH243C3
License No. BLH-20020220AAL
Biltmore Forest, NC

June, 2010

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- Exhibit 32.1 - RF Radiation Study

(Exhibit Numbering is in response to FCC Online Form 301, Section III-B)

DISCUSSION OF REPORT

This firm was retained to prepare the required engineering report in support of a minor construction permit application for WOXL-FM, License No. BLH-20020220AAL, Biltmore Forest, NC. WOXL-FM is currently licensed to operate with 1.85 kW ERP (H)&(V) at 1105 m AMSL on CH243C3. This minor construction permit application requests relocation to an alternate site location with operating parameters of 2.1 kW ERP (H) & (V) at 1064 meters AMSL. The facility will continue to serve the city of Biltmore Forest, NC.

The proposed site for the Class C3 operation meets all domestic spacing requirements of 47 C.F.R. §73.207 toward other stations in the allocation with the exception of three (3) facilities, WNCC-FM – Franklin, NC; WROO(FM) – Mauldin, SC; and APP243A – Starr, SC (BNPH-20091223AOG). A tabulation of the existing and required spacing toward each of the other relevant stations is found in **Exhibit 27.1**. Short-spaced processing under §73.215 is requested toward WNCC-FM, WROO(FM) and APP243A is requested. Full contour protection toward all three facilities has been demonstrated in **Exhibit(s) 31.1 to 31.3**.

The proposed service contours have been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found as **Exhibit 24.4** of this report. This exhibit shows the 3.16 mV/m contour which serves the community of license, and the overall service provided by the 1.0 mV/m contour of the facility. The plotted contours shown in **Exhibit 24.4**, are based on the use of a full 360 terrain radials. The 1 km Globe terrain database has been used in calculation of the proposed HAAT value as noted on the FCC website. A copy of the HAAT calculations has been included as **Exhibit 24.5**.

The proposed three bay antenna will be mounted on the existing tower which will have no Antenna Structure Registration. A copy of USGS topographic mapping of the existing tower site has been included in **Exhibit 24.1**. A copy of the vertical antenna plan has been included as **Exhibit 24.2**.

The remainder of the information in this report and exhibit numbering is responsive to the Rules of the Commission, and provides the data for FCC Form 301, Section III-B.

The FM Broadcast facility proposed in this application will not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1310 of the Commission's rules. **Exhibit 32.1** provides the details of the study that was made to demonstrate compliance. The facility will be properly marked with signs, and entry will be restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed.

In the event work would be required in proximity to the antenna such that the person or persons working in the area would be potentially exposed to fields in excess of the guidelines set forth in OET Bulletin No. 65 (Edition 97-01), the transmitter power will be reduced or the station will cease operation during the critical period.