

ENGINEERING STATEMENT
IN SUPPORT OF APPLICATION FOR MODIFICATION OF LICENSE
RADIO STATION WWUZ(FM)
BOWLING GREEN, VIRGINIA

This Engineering Statement was prepared in support of an Application for Modification of License for WWUZ(FM), Bowling Green, Virginia, concerning an increase in effective radiated power (ERP). This application covers a change in the ERP of WWUZ(FM) made by means of an increase in transmitter power output. No other changes were made. The parameters of the WWUZ(FM) facility as built are summarized as follows:

Channel / Frequency	245 / 96.9 MHz*
Effective radiated power (H & V)	2.95 kW
Azimuthal plane radiation pattern	non-directional*
Antenna radiation center above ground	147 m*
Antenna radiation center above mean sea level	191 m*
Antenna radiation center height above average terrain	144 m*
Antenna make and model	ERI, LP-3E*
Antenna description	Three-bay full-wave-spaced antenna*

With respect to radio frequency (RF) exposure issues, the proposed facility is categorically excluded from environmental processing pursuant to Section 1.1306 of the FCC Rules. An analysis of the RF exposure at 2-m above ground level indicates that the proposed WWUZ(FM) facility would contribute no greater than 4.7% of the general

* No change.

population/uncontrolled environment standard for RF exposure based on worst-case assumptions. The following table summarizes the results:

Call Sign	Channel	Peak Visual ERP or Average ERP (kW)	Total Aural ERP (kW)	Relative Field Factor[†]	FCC Limit[‡] (mW/cm²)	Percentage of Limit
WWUZ(FM)	245	--	5.90	1.00	0.200	4.7%

As indicated, the total RF exposure a 2-m above ground level will not exceed 4.7% of the FCC limit for uncontrolled environments. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing. The applicant shall reduce power or cease operation as necessary to protect persons having access to the tower from RF energy in excess of the FCC guidelines.

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[†] This is a conservative estimate of the relative field factor in the downward direction.

[‡] for general population/uncontrolled environments