

RF HAZARD STATEMENT  
NOTIFICATION OF -14 DBC DIGITAL EFFECTIVE RADIATED POWER  
FM BROADCAST STATION WMMO(FM)  
ORLANDO, FLORIDA  
CHANNEL 255C2

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposed WMMO(FM) *HD Radio* (IBOC) digital facility will not result in human exposure to RF energy at ground level in excess of FCC standards.\*

The proposed WMMO(FM) digital IBOC facility will employ a separate antenna for digital transmissions using its licensed auxiliary antenna.† The licensed Electronics Research, Inc. (ERI) model SHPX-4AE ‘Rototiller’ type antenna (EPA Type 3) with 4-bays with one-wavelength spacing between bays will be employed.‡ The effective radiated power will be 1.75 kW in each polarization plane with a total effective radiated power of 3.5 kW. The antenna is side-mounted on a guyed tower structure and it has a radiation center height above ground level of 111 meters. An RF exposure analysis conducted using the FCC *FMMModel* Version 2.10 indicates that the maximum RF exposure at 2 m above ground anywhere in the vicinity of the proposed facility will not exceed  $0.85 \mu\text{W}/\text{cm}^2$ , § which is equivalent to 0.43% of the FCC exposure limit for general population / uncontrolled environments of  $200 \mu\text{W}/\text{cm}^2$ . Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

The applicant, in coordination with any other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.

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\* See FCC Office of Engineering and Technology Bulletin No. 56 for background information on non-ionizing RF energy of the type discussed here. Internet web reference:

[http://www.fcc.gov/Bureaus/Engineering\\_Technology/Documents/bulletins/oet56/oet56e4.pdf](http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf)

† See FCC File No. BXLH-20140611AAC.

‡ It is noted that the auxiliary antenna radiation center is located within 70% of the height of the main antenna in compliance with Section 73.404(d) of the FCC Rules.

§ The maximum is calculated to occur at a horizontal distance of 45 m from the base of the tower.