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NONIONIZING RADIATION COMPLIANCE

Positive Radio Group, Inc. of Ohio
Middleport-Pomeroy, OH

WMPO will continue to comply with the current FCC Standard with regard to human exposure to nonionizing radiation. WMPO presently operates as a Class D station on 1390 kHz at a daytime power level of 5 kilowatts and a nighttime power level of 0.12 kilowatts using a nondirectional antenna system that is 91.6 degrees in electrical height. It should be noted that FM translator station W290BC holds a construction permit to locate its antenna system on this tower. There are no other non-excluded RF sources located within 315 meters of this site.

The W290BC construction permit authorizes operation on FM Channel 290 with an effective radiated power of 0.15 kilowatts using a circularly polarized nondirectional antenna with its center of radiation located 55 meters above ground level. Equation (9), found on Page 22 of FCC OET Bulletin No. 65 details the calculation technique for determining the predicted power density levels in the vicinity of an FM broadcast station. Assuming a total effective radiated power of 0.34 kilowatts for the W290BC facilities and inserting these values into this equation yields a predicted power density of $4.0 \mu\text{W}/\text{cm}^2$ at two meters above ground level for W290BC. Since the permitted power density level for uncontrolled exposure in the FM band is $200 \mu\text{W}/\text{cm}^2$, this amounts to only 2% of the permitted level for uncontrolled exposure. Since this is less than 5% of the permitted level, W290BC is excluded from environmental processing under this standard and need not be considered in conjunction with other co-located or nearby facilities in evaluating uncontrolled exposure compliance with this standard.

Interpolating Tables 2 and 3 contained in Supplement A to FCC OET Bulletin No. 65 reveals that WMPO is required to maintain an appropriately marked fence to restrict general public access to areas within 2 meters of the base of its tower to prevent gen-

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eral public access to areas where the power density levels from WMPO are in excess of the permitted level for uncontrolled exposure when the station is operating with its 5 kilowatt daytime facilities. At its closest point, the WMPO tower fence is located 2.6 meters from the base of this tower. Based upon this information, the power density levels outside this fence will be below the permitted level for uncontrolled exposure.

WMPO, in conjunction with W290BC, will continue to take appropriate steps to insure that workers that must be inside the fence or on the tower itself will not be exposed to levels of nonionizing radiation that are in excess of the permitted level for controlled exposure. These steps will include the cessation of operation by WMPO when work becomes necessary on this tower or at locations inside this fence where the WMPO power densities exceed the permitted level for controlled exposure and the cessation of operation or a reduction in power by W290BC when work becomes necessary on this tower at locations where the W290BC power density exceeds the permitted level for controlled exposure..