

NONIONIZING RADIATION COMPLIANCE

Positive Alternative Radio, Inc.

Positive Alternative Radio has conducted an engineering statement regarding non-ionizing radiation exposure issues associated with the environmental effects certification on the FCC Form 303-S for the license renewal applications for the following station:

Station	Facility ID #	Community of License	Application File #
W279AC	70360	Roanoke, Virginia	BMLFT-20100706EHK

There has been a material change to the environment due to construction of W230CH and W293AX on the same tower as W279AC. On FCC form 349 application #BPFT-20150518AAK, environmental compliance was submitted by consulting engineer, Robert Branch, regarding this station as stated in the application for construction permit for W293AX. The statement confirms that environmental compliance for this station.

THE ANTENNA PROPOSED IN THE INSTANT APPLICATION IS TO BE LOCATED ON AN EXISTING COMMUNICATIONS TOWER OR STRUCTURE WITH THE EQUIPMENT TO BE LOCATED IN AN EXISTING COMMUNICATIONS SHELTER.

THERE ARE TWO PRE-EXISTING CONTINUOUSLY TRANSMITTING VHF APPARATUS WITHIN THE REQUIRED RF RADIATION REPORTING DISTANCES. THEY ARE W230CH, ROANOKE, VA AND W279AC, ROANOKE, VA.

W230CH, ROANOKE, VA HAS AN ERP OF 250 WATTS (VERTICAL ONLY) USING A SCALA CLFM LOG-PERIODIC ANTENNA (VERTICAL ONLY) AND A RADIATION CENTER HEIGHT ABOVE GROUND LEVEL OF 13 METERS. USING THE FCC COMPUTER PROGRAM FM MODEL, THE MAXIMUM NON-IONIZING RF RADIATION FIGURE IS 13.89 MICROWATTS PER CENTIMETER SQUARED.

W279AC, ROANOKE, VA IS AUTHORIZED FOR 250 WATTS ERP USING A SCALA CLFM (H&V) ANTENNA MOUNTED AT 9 METERS ABOVE GROUND LEVEL. USING THE FCC COMPUTER PROGRAM FM MODEL, THE MAXIMUM NON-IONIZING RF RADIATION FIGURE IS 68.60 MICROWATTS PER CENTIMETER SQUARED. THIS IS CLEARLY BELOW BOTH THE OCCUPATIONAL AND GENERAL PUBLIC LIMITS SET FORTH IN OET BULLETIN 65.

THE APPLICANT HAS PROPOSED AN ERP OF 250 WATTS. USING THE FCC COMPUTER PROGRAM FM MODEL, AND THE SHIVELY MODEL 6815 SINGLE-BAY ANTENNA, MOUNTED AT THE SPECIFIED HEIGHT OF 22 METERS AGL, THE MAXIMUM NON-IONIZING RF RADIATION LEVEL PREDUCTED TO OCCUR 2 METERS ABOVE THE GROUND (TO ACCOUNT FOR AVERAGE HUMAN HEAD HEIGHT) IS 8.899 MICROWATTS PER CENTIMETER SQUARED. THIS IS CLEARLY BELOW BOTH THE OCCUPATIONAL AND GENERAL PUBLIC LIMITS SET FORTH IN OET BULLETIN 65.

THE AGGREGATE VHF CONTINUOUS TRANSMISSION RF RADIATION FIGURE USING W230CH, W279AC AND THE PROPOSED FACILITY IS 91.39 MICROWATTS PER CENTIMETER SQUARED. THIS IS CLEARLY BELOW BOTH THE OCCUPATIONAL AND GENERAL PUBLIC LIMITS SET FORTH IN OET BULLETIN 65.

David Hodges
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Positive Alternative Radio

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