

## RADIO FREQUENCY RADIATION ASSESSMENT

This radio frequency radiation assessment has been included to address the issue of allowable radio frequency radiation levels (RFR). WCFT-FM conforms to FCC guidelines with respect to OET Bulletin No. 65 (Edition 97-01, August 1997), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields." WCFT-FM, 106.5 MHz, Bloomsburg, PA Main Antenna is located with two other FM facilities, an FM translator and an Auxiliary Antenna used for the Digital compliment of an HD signal. These will be factored into the RFR calculations. Included as Subpart 1 is a printout showing the FCC's FM Model Program Calculation. The input values located on Subpart 1 of this exhibit are for WCFT-FM Main. The type of antenna indicated in Subpart 1 is the "DCRH4ESR" FM Antenna with 4 antenna elements. The results show that WCFT-FM Main contributes 0.03873739 mW per square cm, which is 19.37% of the allowable maximum power density guideline of 0.2 mW per square cm for FM frequencies. Subpart 2 is a printout showing the FCC's FM Model Program Calculation. The input values located on Subpart 2 of this exhibit are for WCFT-FM, 106.5, Bloomsburg, PA Digital Hybrid through the Auxiliary Antenna. The type of antenna indicated in Subpart 2 is the "NICBKG77-2" 2 element FM Antenna. The results show that WCFT-FM Digital contributes 0.00344616 mW per square cm, which is 1.72% of the allowable maximum power density guideline of 0.2 mW per square cm for FM frequencies. Included as Subpart 3 is a printout showing FCC's FM Model Program Calculation. The input values located on Subpart 3 of this exhibit are for W257CK, 99.3, Bloomsburg, Berwick, PA. The type of antenna indicated in Subpart 3 is the "worst case" 1 element FM Antenna and is the antenna proposed for use by W257CK, 99.3 MHz, Bloomsburg, Berwick, PA. The results show that W257CK contributes 0.00981782 mW per square cm, which is 4.91% of the allowable maximum power density guideline

of 0.2 mW per square cm for FM frequencies. Combining these three values results in 19.37% of the allowable level of RF radiation being contributed by WCFT-FM Main and 1.72% of the allowable level of RF radiation being contributed by WCFT-FM Digital and 4.91% of the allowable level of RF radiation being contributed by W257CK for a total contribution of 26% of the allowable level of RF radiation which conforms to the FCC maximum permissible uncontrolled/general population RF exposure guidelines.

In addition to showing that this proposed WCFT-FM Digital Antenna meets the new OET bulletin No. 65 guidelines for a safe center of radiation, it should be noted that the transmitting tower will be appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction of power or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency electromagnetic fields will not exceed the FCC guidelines. All of this information thus proves conclusively that this application conforms to the new FCC guidelines with respect to OET Bulletin No. 65 (Edition 97-01, August 1997), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields."