

## RADIOFREQUENCY RADIATION ASSESSMENT

This exhibit has been included to address the issue of allowable radiofrequency radiation levels (RFR). The WGMF antenna would conform to the 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." It first should be noted that WGMF is a standalone FM, there are no AM, FM, or TV stations within 1 kilometer of this proposal with the exception of a proposed FM translator. Also, there are no other stations of any type that would be required to be factored into the RFR calculations. Included as the first Subpart of this attachment is a printout showing the FCC's Power Density Program from the FCC's own website. The input values located on this program are for the WGMF antenna. The type of antenna indicated in this Subpart and the one to be used for WGMF is a two bay ERI/Harris FML-2E rototiller style circularly polarized antenna. The results from this printout show that the WGMF antenna would have a predicted power density value at ground level of 0.073 mW per square cm which is lower than 0.2 mW per square cm, the maximum allowable level of RF radiation. The WGMF power density level of 0.073 mW per square cm is 36.5 % of the maximum allowable level of RF radiation. Included as the second Subpart of this attachment is a printout of the RFR Radiation Hazard Formula. The input values are for the proposed W259BA-W260AY operation. The antenna Relative Field factor is from the antenna manufacturer, Scala. The results from this printout show that the W259BA-W260AY antenna would have a predicted power density value at ground level of 0.0145766 mW per square cm which is lower than 0.2 mW per square cm, the maximum allowable level of RF radiation. The W259BA-W260AY power density level of 0.0145766 mW per square cm is 7.29 % of the maximum allowable level of RF radiation. Combining the WGMF contribution of 36.5% with the W259BA-W260AY contribution of 7.29% results in a total contribution of 43.79% of the maximum allowable level of RF radiation, which conforms to the FCC maximum permissible uncontrolled/general population RF exposure guidelines.

In addition to showing that the WGMF and W259BA-W260AY antennas meets the new OET bulletin No. 65 guidelines for a safe center of radiation, it should be noted that the transmitting tower is 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 demonstrates 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."