

RADIOFREQUENCY RADIATION ASSESSMENT

This exhibit has been included to address the issue of allowable radiofrequency radiation levels (RFR). The proposed New-FM 104.7 MHz Elko 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." Included as Subpart 1 of this exhibit 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 proposed New-FM 104.7 MHz Elko antenna. The type of antenna ("worst case") and the number of antenna bays to be used for the proposed facility (and listed in subpart 1; four bays half wave spaced) are the ones proposed for use in this application. The results from this printout show that the proposed New-FM 104.7 MHz Elko antenna would have a predicted power density value at ground level of 0.0052 mW per square cm. The maximum power density guideline is 0.2 mW per square cm and five percent of this value is 0.01 mW per square cm. Pursuant to Section 1.1307(b) of the Commission's Rules, the power density contributions of co-located and nearby stations are not required to be calculated as the proposed power density contribution is 0.0052 mW per square cm (for this proposed New-FM 104.7 MHz Elko antenna), less than five percent of the maximum power density guideline value of 0.2 mW per square cm, the FCC maximum permissible uncontrolled/general population RF exposure guideline.

In addition to showing that this proposed new antenna 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."