

## Radiofrequency Electromagnetic Field Exposure - Revised Exhibit

In its Application for Construction Permit, KCDI (FM) based its RF Exposure calculations on a 3-bay Shively 6800 series antenna. In actual construction, KCDI (FM) employed a 2-bay Shively 6800 series antenna. As a result, the RF Exposure has been re-calculated as follows:

For the calculation, a combined horizontal and vertical polarized effective radiated power of 11.2 kW is employed with a radiation center of 61 meters above ground level. A Shively 6800 series 2 bay one wavelength spaced antenna was utilized. Using this antenna type in the Commission's *FM Model* RFR calculation program, it is calculated that the maximum power density at ground level resulting from this facility is less than 14 uW/cm<sup>2</sup>. This is about seven percent of the maximum Commission guideline value in an uncontrolled environment for an FM radio station.

The KCDI antenna is co-located on a tower with FM broadcast station KABF (FM). KABF (FM) operates with a circularly polarized effective radiated power of 91 kW with a radiation center of 85 meters above ground level. KABF (FM) is licensed to employ a twelve-bay Harris FMXH-12AC one wavelength spaced transmitting antenna. Using the *FM Model* program, the calculated ground level power density is less than 50 uW/cm<sup>2</sup>. This is twenty-five percent of the maximum Commission guideline value in an uncontrolled environment for an FM radio station. Therefore, the cumulative ground level power density from both KABF (FM) and KCDI (FM) will be less than 100 percent of the uncontrolled standard and in compliance with the Commission's rules.