

Environmental Effects

FM Translator K209AU, FID # 71825

Western Inspirational Broadcasters, Inc. ("WIBI") certifies that FM Translator K209AU complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

WIBI used RFHAZ4, a commercial software package created by V-Soft Communications, to determine compliance for this site.

The facility employs a Kathrein/Scala CA5-FM 5 element Yagi antenna array (vertical polarization) and is located at an existing communications site which is shared with other broadcast facilities. The field strength of the translator's antenna varies with angle of depression from horizontal. Using the vertical elevation field data provided by the manufacturer for the calculations, the maximum contribution to the site is $8.74 \mu\text{W}/\text{cm}^2$, which is 4.37% of the worst-case uncontrolled (public) exposure limit of $200 \mu\text{W}/\text{cm}^2$.

This value falls below the 5% "threshold of responsibility" specified in 47 C.F.R. 1.1307(b) and 1.1307(b) (3) and is therefore "categorically excluded" from providing an Environmental Assessment.