

Special Condition #3:  
RF Hazard Showing

Specified on the underlying construction permit is an EPA Type 3, 12 section antenna. The antenna is a Shively 6510 twelve bay, full wave spaced antenna. Permittee has specified use of the antenna listed below to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines.

Appendix C of OST Bulletin No. 65 (second edition) specifies the maximum radiation in the 30 MHz to 300 MHz region should be limited to 1000  $\mu\text{W}/\text{cm}^2$  for occupational/controlled exposure and 200 $\mu\text{W}/\text{cm}^2$  for general population/uncontrolled exposure. The application was evaluated with a version of the Commission's own FMMODEL program, acquired from the FCC Office of Engineering and Technology Internet site. The results of these calculations are shown on the "Graph". Since the permitted power density in the FM band is 200  $\mu\text{W}/\text{cm}^2$ , as outlined in FCC OET Bulletin No.65, this application complies with the current FCC Standard with regard to uncontrolled exposure to non ionizing radiation.

The application was evaluated with the Commissions FMMODEL program, acquired from the FCC OET Internet Site, using the Shively 6800 Series element pattern for both KAWZ and KEFX. There are two other FM Stations within .3kM of this tower, as shown below.

| Call Sign         | Emissions   | Percent<br>Occupational | Percent General |                                |
|-------------------|---|-------------------------|-----------------|--------------------------------|
| KAWZ(FM) -        | 3.785 $\mu\text{W}/\text{cm}^2$                   | 0.3785                  | .18925          |                                |
| KEFX(FM) -        | 3.785 $\mu\text{W}/\text{cm}^2$                   | 0.3785                  | .18925          |                                |
| KEZJ(FM) -        | 1.325 $\mu\text{W}/\text{cm}^2$                   | 0.1325                  | .6625           | Located .18 km distance        |
| <u>KSNW(FM) -</u> | <u>1.325 <math>\mu\text{W}/\text{cm}^2</math></u> | <u>0.1325</u>           | <u>.6625</u>    | <u>Located .18 km distance</u> |
| Totals            |   | 1.022                   | 1.7035          |                                |

All appropriate steps to insure that workers, who climb this tower will not be exposed to levels of non ionizing radiation, will be taken. These steps include a reduction in power or cessation of operation, as appropriate, when work becomes necessary on the tower in the area where the power density levels are in excel of the permitted level for controlled exposure.