



Exhibit 29

ANSI Power Density Calculations

The power density at the base of the tower was calculated using the following formula from OET Bulletin Number 65, August, 1997:

$$S = ((0.64)(1.64)(ERP)(1000)(\text{milliwatts/watt})) / (\pi(R)^2)$$

where: S = power density in milliwatts per square centimeter

ERP = effective radiated power in watts

R = distance to radiation source in centimeters

$\pi = 3.14$

Using this formula and the values shown below, a power density of 0.804 mW/cm^2 is found to exist at the base of the tower.

ERP = 170 watts

R = 8,400 cm.

The ANSI limit is 1.0 mW/cm^2 in this frequency range for a controlled area and the calculated radiation density is below this value. Manipulating the above referenced formula, the minimum distance from the antenna required to achieve ANSI guidelines would be 58 meters. Since the center of radiation above ground is 84 meters the maximum radiation level is predicted not to be present at the tower base.

The proposed 5-bay antenna will be energized such that it produces an effective radiated power of 85 kW from a center of radiation 84 meters above ground level. There is also another FM station located on the tower KQRK.

Using the FCC FM Model program the maximum RF Radiation level assuming the combined power levels of KQRK and KSIL with type 3 antennas the predicted radiation levels are:



OWL ENGINEERING & EMC TEST LABS, INC.

CONSULTING COMMUNICATIONS ENGINEERS • EMC TEST LABORATORIES

MINNESOTA OFFICE
5844 Hamline Avenue North, Shoreview, MN 55126
651-784-7445 • Fax 651-784-7541

800-797-1338

STATION	Power Density ($\mu\text{W}/\text{cm}^2$)	% of maximum uncontrolled
KSIL	24.15	12
KQRK	5.8	2.9
TOTAL	29.95	14.9

Based on the calculations it was determined that the RF radiation would be only 14.9% of the uncontrolled limit. Access to RF circuitry is restricted by a metal fence that surrounds the property that limits access to the public. Signs are posted warning of the potential danger.

When persons require access to the site, tower or antenna for maintenance purposes, the transmitter power will be reduced or completely eliminated to comply with ANSI guidelines. Hence, the conditions of Section 1.1306(b)(3) would not be involved.