

Exhibit 17 – Environmental Protection Act:

KOTX:

At the RCAGL of 23 meters, less 2 meters, specified in this application, the RFE is calculated using the formula

$$S = \frac{33.4 (F^2) ERP}{R^2}$$

R = 21 meters

ERP = 2 KW

F = 0.305

S = 14.1 $\mu\text{W}/\text{cm}^2$ which is 7.1 % of the 200 $\mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

Antenna used will be a non-directional 2 bay .75 wavelength spacing OMB model MP-2 or similar.

Two other RF radiators K239BK and K278BT will be on this tower.

RFE for K239BK:

$$S = \frac{33.4 (F^2) ERP}{R^2}$$

R = 18 meters

ERP = 0.1 KW

F = 1

S = 10.3 $\mu\text{W}/\text{cm}^2$ which is 5.2 % of the 200 $\mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

RFE for K278BT:

$$S = \frac{33.4 (F^2) ERP}{R^2}$$

R = 16 meters

ERP = 0.1 KW

F = 1

S = 13.1 $\mu\text{W}/\text{cm}^2$ which is 6.5 % of the 200 $\mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

Total RFE for all three RF radiators:

S = 37.5 $\mu\text{W}/\text{cm}^2$ which is 18.8 % of the 200 $\mu\text{W}/\text{cm}^2$ maximum allowable for uncontrolled public access.

Applicant will reduce power or cease operations whenever there are personnel on the tower. Applicant will post required signage.



Google earth

feet
meters

