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**EXHIBIT 22 - RF FIELD DENSITY ANALYSIS**

**APPLICATION FOR NEW NCE FM  
210A - GALLUP, NM**

The proposed operation on channel 210A in Gallup, NM will be located on an existing tower.

The antenna will be a Shively 6810-3-SS-DA three bay, half wavelength spaced, with the center of radiation at 18 meters AGL and will operate with an ERP of 1.9 kW horizontal and vertical.

The calculated (F.C.C. FMMODEL) RF field density at 2 meters AGL from the proposed operation is  $20.5 \mu\text{W}/\text{cm}^2$  at 46.8 meters from the base of the tower or 10.3% of the maximum uncontrolled exposure level of  $200 \mu\text{W}/\text{cm}^2$ . FM translators K207CQ, K203ED, K271AB and K215EG are located at the site. Utilizing the methods of FCC OST-65 (Equation 9) the contributions from these facilities were calculated and are tabulated below.

<u>FACILITY</u>	<u>ERP (kW)</u>	<u>C/R AGL</u>	<u>MAX FIELD DENSITY</u>
K207CQ	0.1 Vert	23 meters	$6.3 \mu\text{W}/\text{cm}^2$
K203ED	0.019 H & V	23 meters	$2.4 \mu\text{W}/\text{cm}^2$
K271AB	0.25 Horiz	59 meters	$2.4 \mu\text{W}/\text{cm}^2$
K215EG	0.099 H & V	20 meters	$1.7 \mu\text{W}/\text{cm}^2$

The sum of these fields (including the field from the proposed) is  $33.3 \mu\text{W}/\text{cm}^2$ . This field is 16.7% of the uncontrolled exposure level of  $200 \mu\text{W}/\text{cm}^2$ .

The tower will be fenced to prevent unauthorized access.