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RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE

The licensee of KGBT-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the KGBT-TV antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

As shown in Appendix A the proposed KGBT-TV channel 18 modified facility will operate with a maximum ERP of 860 kW from an elliptically polarized directional transmitting antenna with a centerline height of 397.3 meters above ground level (AGL). Considering the elevation pattern submitted elsewhere in this application, the vertical plane relative field factor is less than 0.100 at all depression angles greater than 8 degrees. The KGBT-TV facility is predicted to produce a worst-case power density at two meters above ground level, at 105.9 meters from the tower base, of 0.397 $\mu W/cm^2$, which is 0.12% of the FCC guideline value of 331.33 $\mu W/cm^2$ for an “uncontrolled” environment, and 0.024% of the FCC’s guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal’s power density contribution is considered insignificant. (See Appendix A)

Further, the applicant will continue to cooperate and coordinate with other any other site users and reduce power or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission’s Rules.

KGBT-TV
Channel 18 - Harlingen, Texas
ERP = 860000.00 WATTS

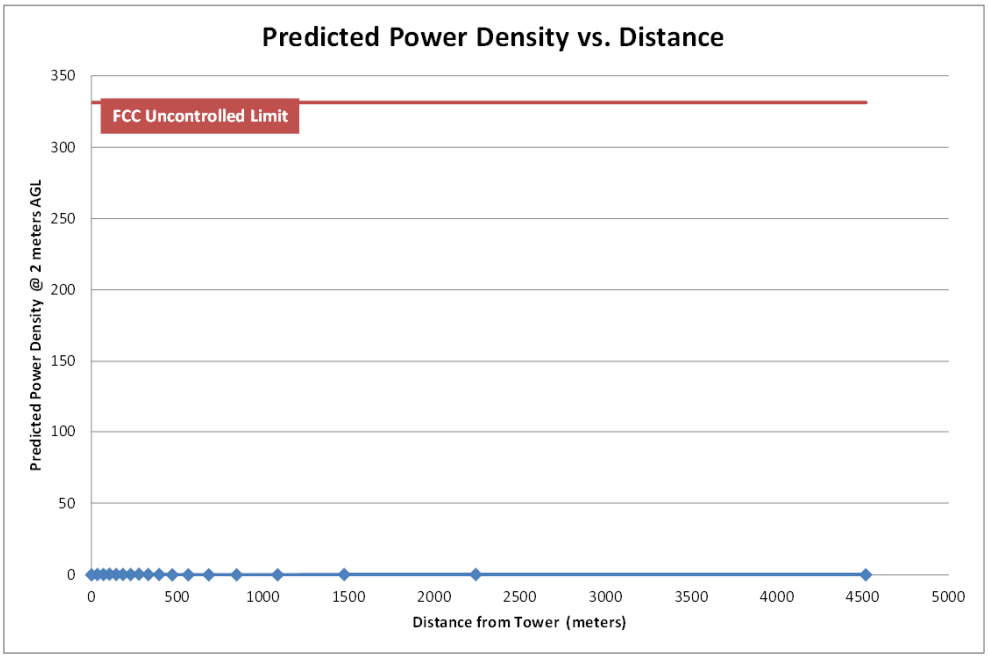
APPENDIX A

Maximum ERP 860 kW

Polarization ----------	2	Circular		
Antenna Height Above Ground -	397.3	meters	1303.5	feet
FCC Uncontrolled RFR Limit ----	331.33	µW/cm²		

Maximum Computed Power Density *0.397* µW/cm²
0.12% of limit

Angle Below Horizontal (degrees)	<Point X> Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)	Vertical Pattern (REL. FIELD)	KGBT-TV ERP (kW)	KGBT-TV Calculated Power Density µW/cm²	Percent Limit	Limit Exceeded?
1			1.000	860.0000			
5	4518.3	4535.6	0.143	17.5861	0.057	0.02%	No
10	2241.9	2276.4	0.091	7.1217	0.092	0.03%	No
15	1475.3	1527.3	0.063	3.4133	0.098	0.03%	No
20	1086.1	1155.8	0.026	0.5814	0.029	0.01%	No
25	847.7	935.4	0.015	0.1935	0.015	0.00%	No
30	684.7	790.6	0.019	0.3105	0.033	0.01%	No
35	564.5	689.2	0.013	0.1453	0.020	0.01%	No
40	471.1	615.0	0.015	0.1935	0.034	0.01%	No
45	395.3	559.0	0.039	1.3081	0.280	0.08%	No
50	331.7	516.0	0.025	0.5375	0.135	0.04%	No
55	276.8	482.6	0.038	1.2418	0.356	0.11%	No
60	228.2	456.5	0.021	0.3793	0.122	0.04%	No
65	184.3	436.2	0.017	0.2485	0.087	0.03%	No
70	143.9	420.7	0.024	0.4954	0.187	0.06%	No
75	105.9	409.2	0.034	0.9942	0.397	0.12%	No
80	69.7	401.4	0.014	0.1686	0.070	0.02%	No
85	34.6	396.8	0.014	0.1686	0.072	0.02%	No
90	0.0	395.3	0.000	0.0000	0.000	0.00%	No



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