

RF HAZARD STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
TV STATION KTFN
EL PASO, TEXAS
CHANNEL 20 130 KW (MAX-DA) 524 m

With respect to the potential for human exposure to radio frequency (RF) energy, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground¹ based on the following conservative assumptions, with the following results:

Call Sign	Channel	Total ERP (kW) ²	Distance (m)	Relative Field Factor ³	FCC Limit ⁴ (uW/cm ²)	Percentage of Limit
KTFN	20	136.8	56	0.1	339.3	4.3%

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 3.3% of the FCC limit for general population / uncontrolled exposure.

Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

Public access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures are taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing “accepted” RFR protective clothing and/or RFR exposure.

¹ The radiation center is located 58 m above ground level.

² Horizontally polarized ERP 130 kW, vertically polarized ERP 6.8 kW.

³ This is a conservative assumption for the maximum relative field at steep downward angles. See attached vertical relative field pattern.

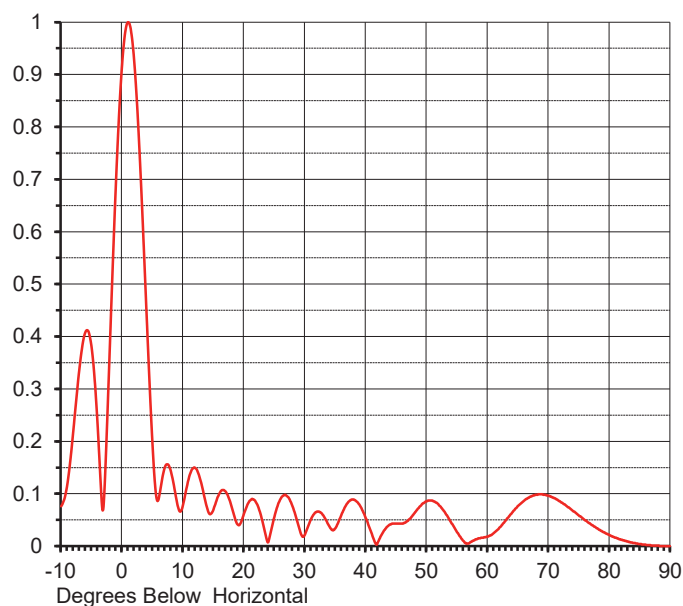
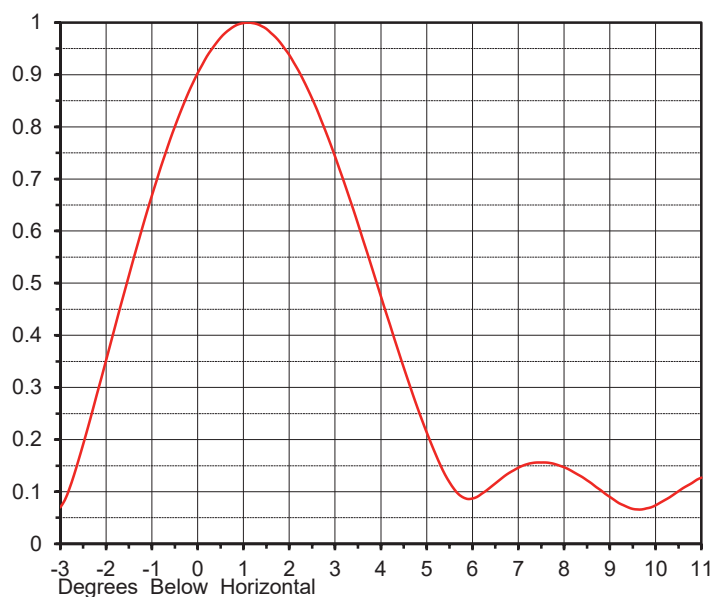
⁴ For general population/uncontrolled environments

ELEVATION PATTERN

Proposal No. **C-70733**
 Date **3-May-17**
 Call Letters **KTFN**
 Channel **20**
 Frequency **509 MHz**
 Antenna Type **TFU-12DSB/VP-R BP285**

RMS Directivity at Main Lobe **12.0 (10.79 dB)**
 RMS Directivity at Horizontal **10.1 (10.04 dB)**
Calculated

Beam Tilt **1.00 deg**
 Pattern Number **12B120100**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.076	10.0	0.079	30.0	0.022	50.0	0.086	70.0	0.096
-9.0	0.117	11.0	0.132	31.0	0.051	51.0	0.086	71.0	0.091
-8.0	0.221	12.0	0.149	32.0	0.066	52.0	0.078	72.0	0.084
-7.0	0.339	13.0	0.120	33.0	0.059	53.0	0.064	73.0	0.076
-6.0	0.409	14.0	0.071	34.0	0.038	54.0	0.045	74.0	0.067
-5.0	0.379	15.0	0.070	35.0	0.034	55.0	0.026	75.0	0.058
-4.0	0.227	16.0	0.101	36.0	0.060	56.0	0.010	76.0	0.049
-3.0	0.084	17.0	0.104	37.0	0.082	57.0	0.006	77.0	0.041
-2.0	0.385	18.0	0.074	38.0	0.089	58.0	0.013	78.0	0.034
-1.0	0.696	19.0	0.041	39.0	0.078	59.0	0.016	79.0	0.027
0.0	0.919	20.0	0.062	40.0	0.053	60.0	0.018	80.0	0.021
1.0	1.000	21.0	0.087	41.0	0.023	61.0	0.025	81.0	0.016
2.0	0.923	22.0	0.083	42.0	0.008	62.0	0.036	82.0	0.012
3.0	0.718	23.0	0.049	43.0	0.030	63.0	0.050	83.0	0.009
4.0	0.447	24.0	0.008	44.0	0.041	64.0	0.064	84.0	0.006
5.0	0.192	25.0	0.056	45.0	0.043	65.0	0.077	85.0	0.004
6.0	0.090	26.0	0.090	46.0	0.043	66.0	0.087	86.0	0.002
7.0	0.150	27.0	0.096	47.0	0.050	67.0	0.094	87.0	0.001
8.0	0.143	28.0	0.075	48.0	0.063	68.0	0.098	88.0	0.001
9.0	0.084	29.0	0.037	49.0	0.077	69.0	0.099	89.0	0.000
								90.0	0.000

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