R.F. RADIATION COMPLIANCE STATEMENT

Arroyo Seco, NM
University of New Mexico
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The Proposed FM antenna:

The applicant now proposes the use of a 4-bay EPA type #2, Jampro, JMPC-4D RFR .5 DA, half-wave antenna to emit 6.0 kilowatts of radiated power polarized horizontally and polarized vertically from a height above ground of 13.4 meters. Using OET 65 calculations modified by the manufacturer's vertical elevation field for a 4-bay half-wave antenna (see Antenna Proof of performance, vertical elevation field table, pages 11 and 12) we can determine that the power density emanating from the antenna at head height at the base of the existing supporting structure will be virtually zero.

Other Emitters:

There are several TV translator stations located on or near the proposed tower.

ID Stations Study at 35 37 59 N, 105 14 10 W, Search Distance = 1 km. Search Distance = 1 km (Power Density in Microwatts Per square centimeter)

Call	Service	City	State	Chan	power	height	Coordinates	File Number		
AM ------- None Found ----------										
FM ----------									Pwr Density -	% uncontrolled-
K220AV	X	Taos	NM	220D	0000.043kW		362351N 1053234W	BLFT19850618TC To be discontinued by licensee		
TV ----------										
K06LE	X	Taos	NM	06ZT	0.056kW	18.5 M	362351N 1053234W	BLTTV19840625IF	1.70	0.852 **
K08KX	X	Taos	NM	08NT	0.073kW	8.5M	362351N 1053234W	BLTTV19900625IO	14.32	7.158 **
K15HD-	G	Taos	NM	15 D	0.289kW	41.5 M	362351N 1053234W	BLDTT20061026ADG	0.38	0.012 ***
K21FD	X	Taos, Etc.	NM	21+T	10.300kW	33.5M	362351N 1053234W	BLTT20000502AAW	2.15	0.626 ***
K43IA	X	Taos	NM	43NT	6.200kW	21.5 M	362351N 1053234W	BLTT20060420ACX	3.38	0.783 ***
K33BN	X	Taos	NM	33ZT	0.620kW	25.5 M	0.62 kW 362352N 1053235W	BLTT20050912AAD	0.23	0.96 ***

Total	10.391 %
Applicant Amount	0.0
Grand Total	10.391%

** 20% vertical elevation field, *** 10% vertical elevation field (22 % aural injection)

The applicant will reduce transmitting power to safe levels or terminate transmissions in the event a worker must go on to the tower and be at a distance from the proposed antenna such that over-exposure would result.

Consequently, it appears that the proposed transmitting antenna will be in full compliance with the Commission's human exposure to radio frequency electromagnetic field rules and regulations.

Doug Vernier