

## R.F. RADIATION COMPLIANCE STATEMENT

**Arroyo Seco, NM**  
University of New Mexico  
October 2007

***The Proposed FM antenna:***

The applicant proposes the use of a 4-bay EPA type #6 half-wave antenna to emit 2.7 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 we can determine that the power density 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
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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	BLLDT20061026ADG	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 %
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Applicant Amount	<u>0.0</u>
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** 20% vertical elevation field, *** 10% vertical elevation field (22 % aural injection)	Grand Total	10.391%
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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