R.F. RADIATION COMPLIANCE STATEMENT

KRRT, Arroyo Seco, NM
University of New Mexico
February 2010

The Proposed FM antenna:

The applicant proposes the use of a Aldena (ALP-08-02-712), composite directional antenna to emit a maximum of 4.0 kilowatts of radiated power, polarized horizontally, from a height above ground of 27 meters. Using OET 65 calculations and the vertical field supplied by the manufacturer we can determine that the power density at head height at the base of the existing supporting structure will be virtually zero. (See page #2 of this exhibit for a vertical field graph.)

Other Emitters:

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

ID Stations Study at 35 23 51 N, 105 32 34 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 **
K06LE	G	Taos	NM	30 T	0.220kW	18.0 M	362351N	1053234W BLTTV19840825IF	1.25	0.303
K08KX	X	Taos	NM	08NT	0.073kW	8.5M	362351N	1053234W BLTTV19900625IO	14.32	7.158 **
K12OG	X	Taos CP	NM	12NT	0.140kW	7.5 M	362351N	1053234W BLTTV19900712IK	0.96	0.479 **
K12OG	G	Taos CP	NM	12NT	0.028kW	7.5 M	362351N	1053234W BLTTV19900712IK	0.31	0.155
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		11.328 %
								Applicant Amount		0.000
** 20% vertical elevation field, *** 10% vertical elevation field - (22 % aural injection)								Grand Total		11.328%

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

Antenna Mfg.: Shively Labs
Antenna Type: Aldina ALP.08.02.712 - Yagi 2/1
Station:
Frequency: 90.9
Channel #: 215

Beam Tilt 0

Power Gain (Horizon) 5.262