

Environmental Protection

The proposed facility will be built at an existing communications facility. This site is not an "Historic Place" as described in section 1.1307(a) (4). Therefore, this application is excluded from the preparation of an "Environmental Assessment" pursuant to Section 1.1306 Note 1.

The proposed facility is to be built using an ERI Rototiller, 12bay, 0.9 wave spaced antenna, on the same site as KLVO-FM, channel 249C1, Belen, NM (FIN 25529), KYLZ-FM, channel 292C1, Los Lunas, NM (FIN 51762), KTEG-FM(CP), channel 284C1, Bosque Farms, NM (FIN 65704), and the application of Educational Media Foundation (EMF) for a new channel 245D facility to serve Belen, NM (FIN 141973). According to the license application, KLVO and KYLZ are currently diplexed using a 12-bay, full-wave spaced ERI SHPX12-AC-SP antenna. The Belen EMF application specifies the use of a 1-bay, SWR FMEC/1 antenna. According to the tower owner, they do not have an agreement with the owners of KTEG-FM (CP), and they have specifically stated that they will not permit KTEG to build the facility on their tower; therefore KTEG was not factored into this study.

As can be seen in the attached analysis, when all four facilities are operational, the maximum theoretical RF value would be 25.11 uW/cm^2 at a distance of 35 meters from the tower, which is 12.55% of the 200 uW/cm^2 permitted for public (uncontrolled) exposure, and 2.51% of the 1000 uW/cm^2 permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will further cooperate with other site users to reduce power or cease broadcasting as necessary to protect workers and others having access to the site from excessive levels of RF exposure.

Exhibit 22-A
RF Analysis: KQLV 202C2 Bosque Farms, NM

Site type:	KQLV.P Station	KLVO Station	KYLZ Station	NEW Station
Channel:	202	249	292	245
Class:	C1	C1	C1	D
ERP:	100 kw	100 kw*	100 kw*	.028 kw
Antenna:	ERI	ERI	ERI	SWR
	Roto	Roto	Roto	Double-V
	12-bay	12-bay	12-bay	1-bay
	0.9 wave	full-wave	full-wave	full-wave
COR AGL:	127m	162m	161m	100m

* KLVO and KYLZ are 98.4kw and 98.1kw ERP, but both are 100kw considering beam tilt

Distance From Tower (m)	KQLV.P Facility	KLVO Facility	KYLZ Facility	NEW Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	0.3123	7.6383	7.7335	0.0056	15.69	7.84
1	0.3130	7.6380	7.7332	0.0056	15.69	7.84
2	0.3151	7.6371	7.7322	0.0056	15.69	7.85
3	0.3187	7.6355	7.7307	0.0056	15.69	7.85
4	0.3237	7.6333	7.7283	0.0056	15.69	7.85
5	0.3300	7.6302	7.7252	0.0056	15.69	7.85
6	0.3378	7.6261	7.7210	0.0056	15.69	7.85
7	0.3468	7.6209	7.7156	0.0056	15.69	7.84
8	0.3572	7.6144	7.7089	0.0056	15.69	7.84
9	0.3687	7.6063	7.7006	0.0057	15.68	7.84
10	0.3814	7.5964	7.6903	0.0060	15.67	7.84
11	0.3952	7.5844	7.6780	0.0064	15.66	7.83
12	0.4290	7.5700	7.6631	0.0068	15.67	7.83
13	0.4681	7.5528	7.6454	0.0072	15.67	7.84
14	0.5101	7.5326	7.6245	0.0076	15.67	7.84
15	0.5549	7.7646	7.8883	0.0080	16.22	8.11
16	0.6024	8.0496	8.1786	0.0084	16.84	8.42
17	0.6524	8.3334	8.4675	0.0088	17.46	8.73
18	0.7045	8.6148	8.7538	0.0093	18.08	9.04
19	0.7584	8.8926	9.0363	0.0098	18.70	9.35
20	0.8134	9.1654	9.3134	0.0103	19.30	9.65
21	0.8689	9.4317	9.5838	0.0108	19.90	9.95
22	0.9243	9.6900	9.8458	0.0113	20.47	10.24
23	0.9824	9.9387	10.0976	0.0119	21.03	10.52
24	1.0414	10.1760	10.3376	0.0124	21.57	10.78
25	1.0978	10.4001	10.5636	0.0130	22.07	11.04
26	1.1505	10.6091	10.7740	0.0135	22.55	11.27
27	1.1981	10.8011	10.9665	0.0141	22.98	11.49
28	1.2394	10.9741	11.1392	0.0146	23.37	11.68
29	1.2732	11.1506	11.3251	0.0151	23.76	11.88
30	1.2981	11.3361	11.5096	0.0156	24.16	12.08
31	1.3130	11.4965	11.6679	0.0162	24.49	12.25
32	1.3170	11.6296	11.7978	0.0167	24.76	12.38
33	1.3090	11.7331	11.8969	0.0172	24.96	12.48
34	1.2886	11.8049	11.9630	0.0177	25.07	12.54
35	1.2527	11.8428	11.9941	0.0183	25.11	12.55
36	1.2042	11.8452	11.9882	0.0188	25.06	12.53
37	1.1436	11.8103	11.9438	0.0193	24.92	12.46
38	1.0715	11.7367	11.8595	0.0199	24.69	12.34
39	0.9892	11.6234	11.7343	0.0205	24.37	12.18
40	0.8981	11.4696	11.5675	0.0210	23.96	11.98
41	0.8002	11.2750	11.3587	0.0216	23.46	11.73
42	0.6976	11.0394	11.1080	0.0221	22.87	11.43
43	0.5928	10.7635	10.8162	0.0227	22.20	11.10
44	0.4885	10.4375	10.4687	0.0232	21.42	10.71
45	0.3876	10.0674	10.0818	0.0237	20.56	10.28

Distance From Tower (m)	KQLV.P Facility	KLVO Facility	KYLZ Facility	NEW Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	0.2930	9.6630	9.6603	0.0243	19.64	9.82
47	0.2078	9.2265	9.2068	0.0248	18.67	9.33
48	0.1342	8.7610	8.7244	0.0254	17.65	8.82
49	0.0748	8.2697	8.2168	0.0260	16.59	8.29
50	0.0316	7.7566	7.6881	0.0266	15.50	7.75
51	0.0064	7.2257	7.1425	0.0272	14.40	7.20
52	0.0004	6.6817	6.5850	0.0278	13.29	6.65
53	0.0141	6.1293	6.0206	0.0283	12.19	6.10
54	0.0475	5.5736	5.4545	0.0289	11.10	5.55
55	0.0998	5.0199	4.8923	0.0294	10.04	5.02
56	0.1694	4.4734	4.3394	0.0300	9.01	4.51
57	0.2541	3.9395	3.8012	0.0305	8.03	4.01
58	0.3512	3.4233	3.2831	0.0310	7.09	3.54
59	0.4572	2.9302	2.7920	0.0316	6.21	3.11
60	0.5697	2.4682	2.3323	0.0323	5.40	2.70
61	0.6843	2.0368	1.9056	0.0328	4.66	2.33
62	0.7964	1.6401	1.5160	0.0334	3.99	1.99
63	0.9017	1.2817	1.1669	0.0340	3.38	1.69
64	0.9962	0.9646	0.8611	0.0346	2.86	1.43
65	1.0762	0.6912	0.6009	0.0351	2.40	1.20
66	1.1384	0.4630	0.3876	0.0356	2.02	1.01
67	1.1802	0.2810	0.2217	0.0362	1.72	0.86
68	1.1998	0.1452	0.1028	0.0367	1.48	0.74
69	1.1963	0.0547	0.0298	0.0372	1.32	0.66
70	1.1695	0.0080	0.0008	0.0377	1.22	0.61
71	1.1206	0.0027	0.0129	0.0379	1.17	0.59
72	1.0511	0.0357	0.0627	0.0382	1.19	0.59
73	0.9640	0.1034	0.1461	0.0385	1.25	0.63
74	0.8640	0.2012	0.2582	0.0387	1.36	0.68
75	0.7539	0.3245	0.3940	0.0390	1.51	0.76
76	0.6373	0.4685	0.5491	0.0392	1.69	0.85
77	0.5187	0.6283	0.7174	0.0394	1.90	0.95
78	0.4031	0.7980	0.8931	0.0396	2.13	1.07
79	0.2952	0.9720	1.0704	0.0398	2.38	1.19
80	0.1992	1.1448	1.2438	0.0400	2.63	1.31
81	0.1190	1.3110	1.4079	0.0402	2.88	1.44
82	0.0578	1.4658	1.5579	0.0403	3.12	1.56
83	0.0179	1.6046	1.6894	0.0405	3.35	1.68
84	0.0007	1.7235	1.7987	0.0406	3.56	1.78
85	0.0066	1.8193	1.8828	0.0408	3.75	1.87
86	0.0351	1.8895	1.9397	0.0409	3.91	1.95
87	0.0846	1.9323	1.9679	0.0410	4.03	2.01
88	0.1528	1.9469	1.9671	0.0411	4.11	2.05
89	0.2362	1.9332	1.9376	0.0412	4.15	2.07
90	0.3300	1.8920	1.8806	0.0412	4.14	2.07
91	0.4303	1.8247	1.7982	0.0413	4.09	2.05
92	0.5326	1.7337	1.6930	0.0414	4.00	2.00
93	0.6324	1.6218	1.5685	0.0414	3.86	1.93
94	0.7254	1.4940	1.4311	0.0415	3.69	1.85
95	0.8076	1.3536	1.2816	0.0415	3.48	1.74
96	0.8756	1.2031	1.1241	0.0416	3.24	1.62
97	0.9267	1.0467	0.9633	0.0416	2.98	1.49
98	0.9590	0.8888	0.8037	0.0416	2.69	1.35
99	0.9713	0.7337	0.6495	0.0416	2.40	1.20
100	0.9634	0.5856	0.5050	0.0416	2.10	1.05