

EXHIBIT 11 – CHANNEL STUDY

Compliance with Rules Section 73.807(a)(1) (Distance Separation)

Search of channel 271 (102.1 MHz Class LP100) at 35-02-11.0 N, 106-43-21.0 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KFLQ	ALBUQUERQUE	NM 218 C	31.68	28.00	51.3	3.7
KIOT	LOS LUNAS	NM 273 C	31.66	93.00	69.6	-61.3 *
KQTM	RIO RANCHO	NM 269 A	28.78	29.00	52.7	-0.2 **
KYRN	SOCORRO	NM 271 C2	109.26	91.00	191.6	18.3
KZNM	MILAN	NM 270 A	107.99	56.00	275.2	52.0

* See Below

* Rounded to 29 km. per Commission practice

Compliance with Rules Section 73.807(e)(1) Contour Protection to KIOT

The proposed LPFM station on channel 271 is located within the protected 60 dBu contour of second adjacent channel station KIOT, channel 273C at Albuquerque, NM. The predicted F(50,50) field strength of KIOT at the proposed LPFM site is 87.7 dBu. Therefore, the predicted F(50,10) interfering contour produced by the proposed FM Translator is 127.7 dBu (87.7 + 40).

EXHIBIT 11 – CHANNEL STUDY

Compliance with Rules Section 73.807(e)(1)

Contour Protection to KIOT

The proposed two element, 0.75 wavelength spaced OMB MP-2 antenna will be mounted on a six meter pole atop a building on the school campus. The center of radiation will be 22 meters above the ground. As determined from the calculation provided on the Commission's website at <http://transition.fcc.gov/mb/audio/bickel/curves.html>, at the proposed ERP of 100 watts the 127.7 dBu contour extends 31 meters from the proposed transmitting antenna in the horizontal plane. However, the field intensity of the proposed antenna is reduced at depression angles below the horizon. Using the elevation pattern provided by OMB, the distance to the 127.2 dBu contour at various depression angles is tabulated below.

<u>Angle</u>	<u>Radiation</u>	<u>Distance to 127.7 dBu</u>
0	1.0	31 m.
-5	.981	31 m.
-10	.926	30 m.
-15	.839	28 m.
-20	.728	26 m.
-25	.601	24 m.
-30	.467	21 m.
-35	.335	18 m.
-40	.213	14 m.
-45	.107	10 m.
-50	.020	4 m.
-55	.045	7 m.
-60	.087	9 m.
-65	.109	10 m.
-70	.112	10 m.
-75	.099	10 m.
-80	.074	8 m.
-85	.040	6 m.
-90	.000	--

From the above chart, it is shown that from the antenna height above ground of 20 meters, the 127.7 dBu interfering contour does not come within three meters of ground level. Therefore, full protection of 40 db or greater is provided to second-adjacent station KIOT, and a "second-adjacent waiver" is respectfully requested.



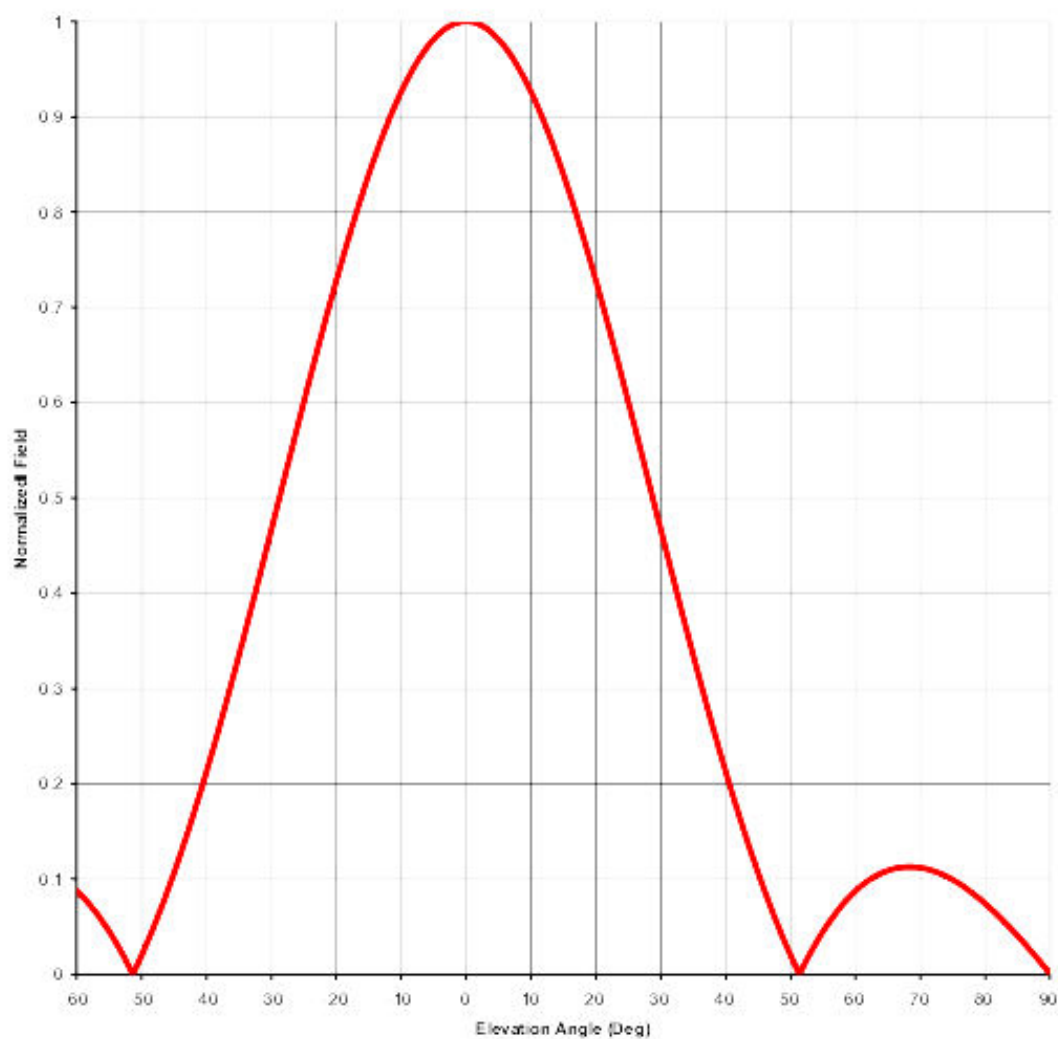
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MP-2 ELEVATION PATTERN

Antena Type: MP-2

Freq: 98.1MHz





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ELEVATION PATTERN TABULATION

Degrees	Relative Field	Degrees	Relative Field
1	0.999	46	0.088
2	0.997	47	0.069
3	0.993	48	0.052
4	0.988	49	0.036
5	0.981	50	0.020
6	0.973	51	0.005
7	0.963	52	0.009
8	0.952	53	0.021
9	0.940	54	0.033
10	0.926	55	0.045
11	0.911	56	0.055
12	0.895	57	0.064
13	0.877	58	0.073
14	0.859	59	0.080
15	0.839	60	0.087
16	0.819	61	0.093
17	0.797	62	0.098
18	0.775	63	0.103
19	0.752	64	0.106
20	0.728	65	0.109
21	0.703	66	0.111
22	0.678	67	0.112
23	0.653	68	0.113
24	0.627	69	0.113
25	0.601	70	0.112
26	0.574	71	0.110
27	0.547	72	0.108
28	0.521	73	0.106
29	0.494	74	0.103
30	0.467	75	0.099
31	0.440	76	0.095
32	0.413	77	0.090
33	0.387	78	0.085
34	0.361	79	0.080
35	0.335	80	0.074
36	0.309	81	0.068
37	0.284	82	0.061
38	0.260	83	0.055
39	0.236	84	0.048
40	0.213	85	0.040
41	0.190	86	0.033
42	0.168	87	0.025
43	0.147	88	0.017
44	0.126	89	0.009
45	0.107	90	0.000