

Exhibit 13

Clearance to WSRV

This instant translator application clears all allocation constraints of Section 74.1204. On first glance, it appears that interference is created to WSRV, Gainesville, GA. However, Section 74.1204(d) instructs us:

“In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.”

Through the use of the proposed Elevation Radiation Pattern from the antenna manufacturer and graphing the actual interfering contour, we will prove that the interference area never touches the ground and therefore there is no population being affected in this small interference area.

WSRV (License) has a center of radiation of 797 M AMSL. WSRV is authorized 100 KW ERP. WSRV places 71 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 71 dBu signal produces an interfering contour of 111.0 dBu.

The applicant consulted Shively, the manufacturer of the 6812B 3-bay half-wave spaced antenna that is being proposed. The Elevation Pattern for this antenna is attached. This includes a relative field for each degree of elevation. Knowing the relative field at each degree of elevation allows us to calculate the power at each degree of elevation. From that, the distance to the 111.0 dBu interfering contour was calculated. The Excel spreadsheet program was instrumental in graphing the interfering contour. Using trigonometry, points on the 111.0 dBu interfering contour were transformed to point values that could be graphed on an X,Y axis. X is the distance from the antenna and Y is the height above ground.

The point that places the 111.0 dBu interfering signal closest to the ground occurs 165.7 meters from the tower. Here, the 111.0 dBu contour is 16.2 meters (53.1 feet) in the air. This point is generated by the 25 degree azimuth of the antenna with a relative field of 0.565. At this distance from the transmitter, there is a school. Much of the area is a parking lot for the school. 165.7 meters from the tower does include a portion of an athletic track facility and a baseball diamond. The corner of a school building is also included but at no point are there persons on floors higher than 16.2 meters (53.1 feet).

In conclusion, based on the foregoing explanation and related exhibits showing that no persons will receive interference because the interfering contour never touches the ground, it is thought this application is in compliance with Section 74.1204 using Section 74.1204(d).

Shively Labs®

Antenna Mfr.: Shively Labs

Antenna Type: 6812B or 6602B 3-Bay, 1/2-wave-spaced

Frequency: 98.1

6812B Gain (Max)

6602B Gain (Max)

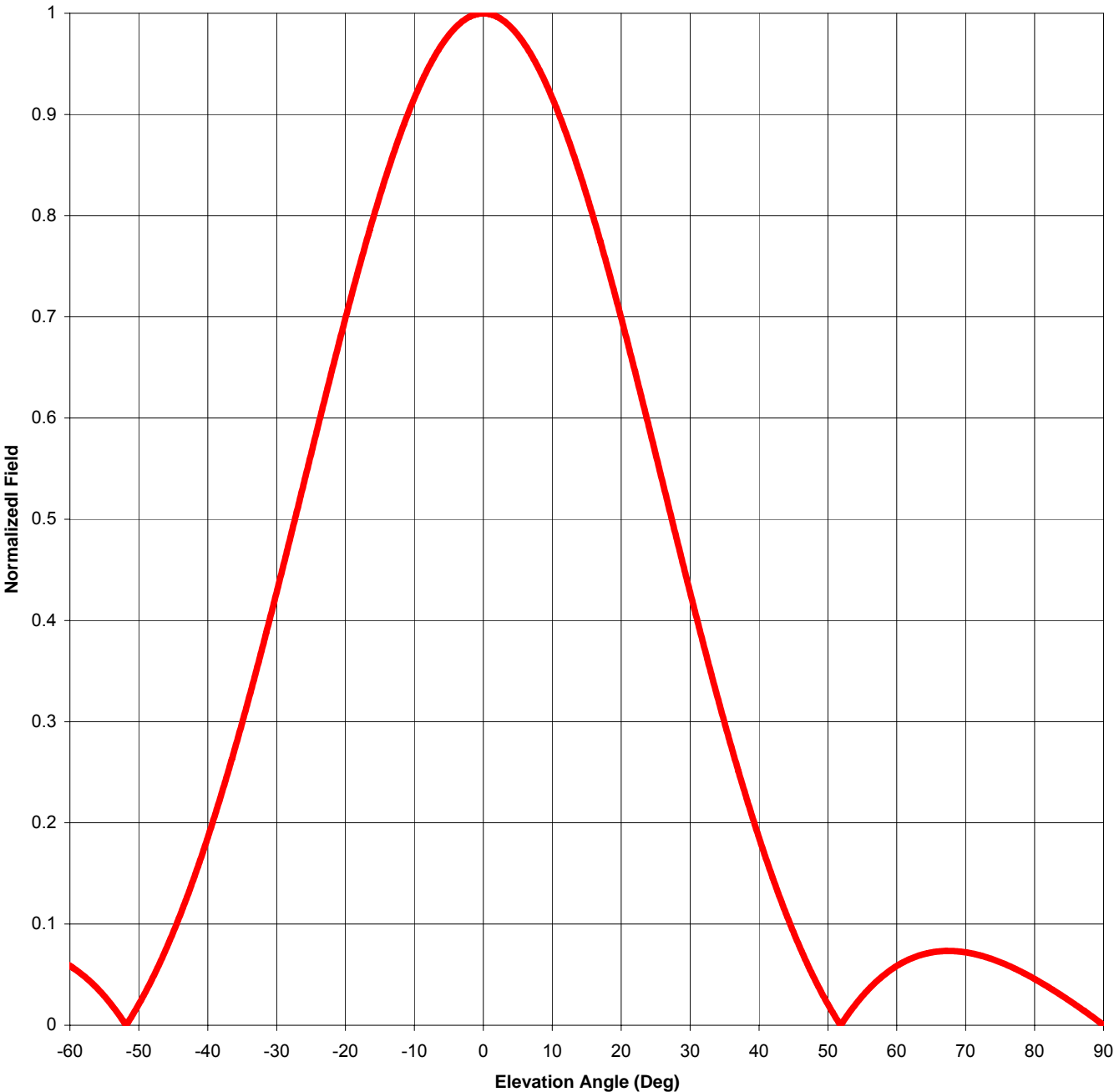
0.89

1.78

-0.51 dB

2.49 dB

Date: 12/30/2004



Elevation Pattern Tabulation, 6602B and 6812B 3-Bay Half-Wave-Spaced

Relative Field at 0° Depression = 1.000

Degrees	Rel. Field
1	0.999
2	0.997
3	0.992
4	0.986
5	0.979
6	0.969
7	0.958
8	0.946
9	0.932
10	0.916
11	0.900
12	0.881
13	0.862
14	0.842
15	0.820
16	0.797
17	0.774
18	0.750

Degrees	Rel. Field
19	0.725
20	0.699
21	0.673
22	0.646
23	0.619
24	0.592
25	0.565
26	0.537
27	0.510
28	0.482
29	0.455
30	0.428
31	0.401
32	0.375
33	0.349
34	0.324
35	0.299
36	0.275

Degrees	Rel. Field
37	0.251
38	0.229
39	0.207
40	0.185
41	0.165
42	0.146
43	0.127
44	0.109
45	0.092
46	0.076
47	0.061
48	0.047
49	0.033
50	0.021
51	0.009
52	0.002
53	0.011
54	0.021

Degrees	Rel. Field
55	0.029
56	0.036
57	0.043
58	0.049
59	0.054
60	0.059
61	0.063
62	0.066
63	0.068
64	0.070
65	0.072
66	0.073
67	0.073
68	0.073
69	0.073
70	0.072
71	0.071
72	0.069

Degrees	Rel. Field
73	0.067
74	0.065
75	0.062
76	0.060
77	0.056
78	0.053
79	0.050
80	0.046
81	0.042
82	0.038
83	0.033
84	0.029
85	0.025
86	0.020
87	0.015
88	0.010
89	0.005
90	0.000

Tabulation of Interfering Calculations

Elevation Angle	Relative Field	Power Watts	Slant Distance*	Dist. On Ground* (Horizontal)	Dist Above Ground to Contour* (Vertical)
1	.999	219.560	279.3	292.9	78.1
2	.997	218.682	278.7	292.3	73.3
3	.992	216.494	277.3	290.9	68.5
4	.986	213.883	275.7	289.1	63.8
5	.979	210.857	273.7	287.1	59.1
6	.969	206.571	270.9	284.1	54.7
7	.958	201.908	267.8	280.9	50.4
8	.946	196.882	264.5	277.4	46.2
9	.932	191.097	260.6	273.3	42.2
10	.916	184.592	256.1	268.6	38.5
12	.881	170.755	246.3	258.2	31.8
14	.842	155.972	235.4	246.9	26.1
16	.797	139.746	222.8	233.7	21.6
18	.750	123.750	209.7	219.9	18.2
20	.699	107.492	195.4	205.0	16.2
25	.565	70.230	158.0	165.7	16.2
30	.428	40.300	119.7	125.5	23.2
35	.299	19.668	83.6	87.7	35.0
40	.185	7.530	51.7	54.2	49.8
45	.092	1.862	25.7	27.0	64.8
50	.021	0.097	5.9	6.2	78.5
55	.029	0.185	8.1	8.5	76.4
60	.059	0.766	16.5	17.3	68.7
65	.072	1.140	20.1	21.1	64.8

70	.072	1.140	20.1	21.1	64.1
75	.062	0.846	17.3	18.2	66.3
80	.046	0.466	12.9	13.5	70.3
85	.025	0.138	7.0	7.3	76.0
90	0.00	0.00	0.0	0.0	83.0

*All distances calculated in meters

**111.0 dBu Interference Above Ground
Shively 6812B 3-Bay 0.5 Wave Spaced
Clarkesville, GA (ASR 1019544)**

