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 (BLH-19980825KB) uses a center of radiation of 797 M AMSL with 100 KW ERP. WSRV places a signal of 69.8 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 69.8 dBu signal produces an interfering contour of 109.8 dBu.

The applicant consulted Shively, the manufacturer of the 6812B 5-bay 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 109.8 dBu interfering contour was calculated. The Excel spreadsheet program was instrumental in graphing the interfering contour. Using trigonometry, points on the 109.8 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.

There is a point where the 109.8 dBu interfering signal actually touches the ground close to the tower. This occurs at a distance of 29.7 meters (97.4 feet) from the tower base. At this distance the interference is still in the immediate vicinity of the tower, guy wires and co-located AM ground system. There are no residents within this proximity of the tower. Further away from the tower the interfering signal does not touch the ground again and stays aloft. The interfering signal extends for a distance of approximately 355.6 meters. The character of the land under this interfering signal is rural. Much of the land is one farm. There are chicken houses, barns and a farm residence under the interfering contour. The interference area remains in the air over this residence and rural land.

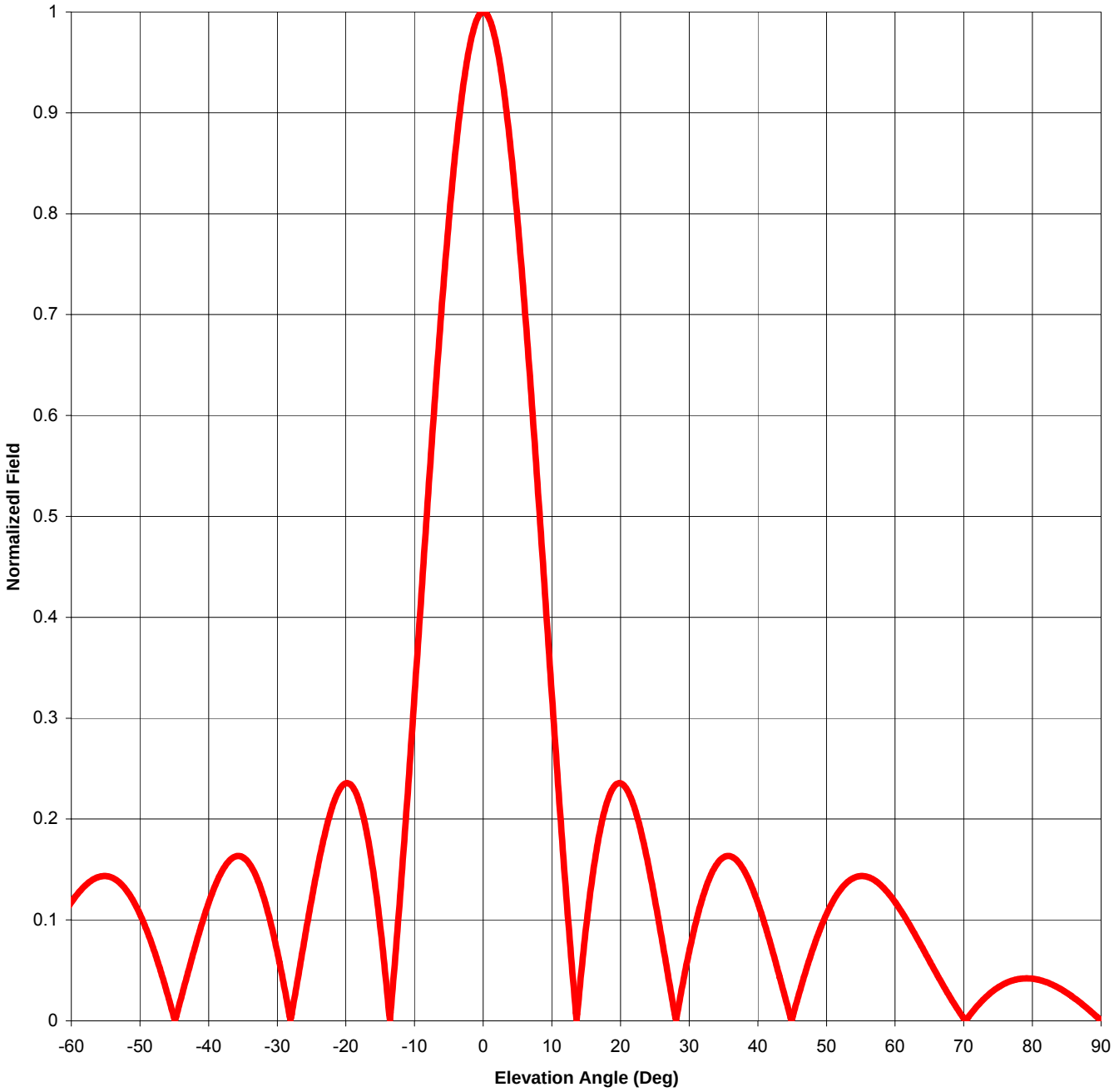
The following photograph is of the tower, transmitter building and adjacent land. It is quickly seen that there are no close in residents

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 will Section 74.1204 using Section 74.1204(d).

Shively Labs

Antenna Mfr.: Shively Labs **Date:** 12/29/2004
Antenna Type: 6812B or 6602B 5-Bay, full-wave-spaced
Frequency: 98.1

6812B Gain (Max)	2.61	4.17 dB
6602B Gain (Max)	5.22	7.17 dB



Elevation Pattern Tabulation, 6602B and 6812B 5-Bay Full-Wave-Spaced

Relative Field at 0° Depression = 1.000

Degrees	Rel. Field
1	0.991
2	0.965
3	0.922
4	0.865
5	0.793
6	0.711
7	0.620
8	0.523
9	0.423
10	0.323
11	0.225
12	0.133
13	0.048
14	0.028
15	0.094
16	0.147
17	0.188
18	0.216

Degrees	Rel. Field
19	0.232
20	0.236
21	0.228
22	0.212
23	0.187
24	0.156
25	0.120
26	0.082
27	0.042
28	0.003
29	0.034
30	0.068
31	0.098
32	0.123
33	0.142
34	0.155
35	0.162
36	0.163

Degrees	Rel. Field
37	0.159
38	0.149
39	0.135
40	0.117
41	0.096
42	0.073
43	0.048
44	0.023
45	0.002
46	0.027
47	0.050
48	0.071
49	0.090
50	0.106
51	0.119
52	0.130
53	0.137
54	0.142

Degrees	Rel. Field
55	0.144
56	0.143
57	0.139
58	0.134
59	0.127
60	0.118
61	0.107
62	0.096
63	0.084
64	0.072
65	0.060
66	0.047
67	0.035
68	0.024
69	0.013
70	0.003
71	0.007
72	0.015

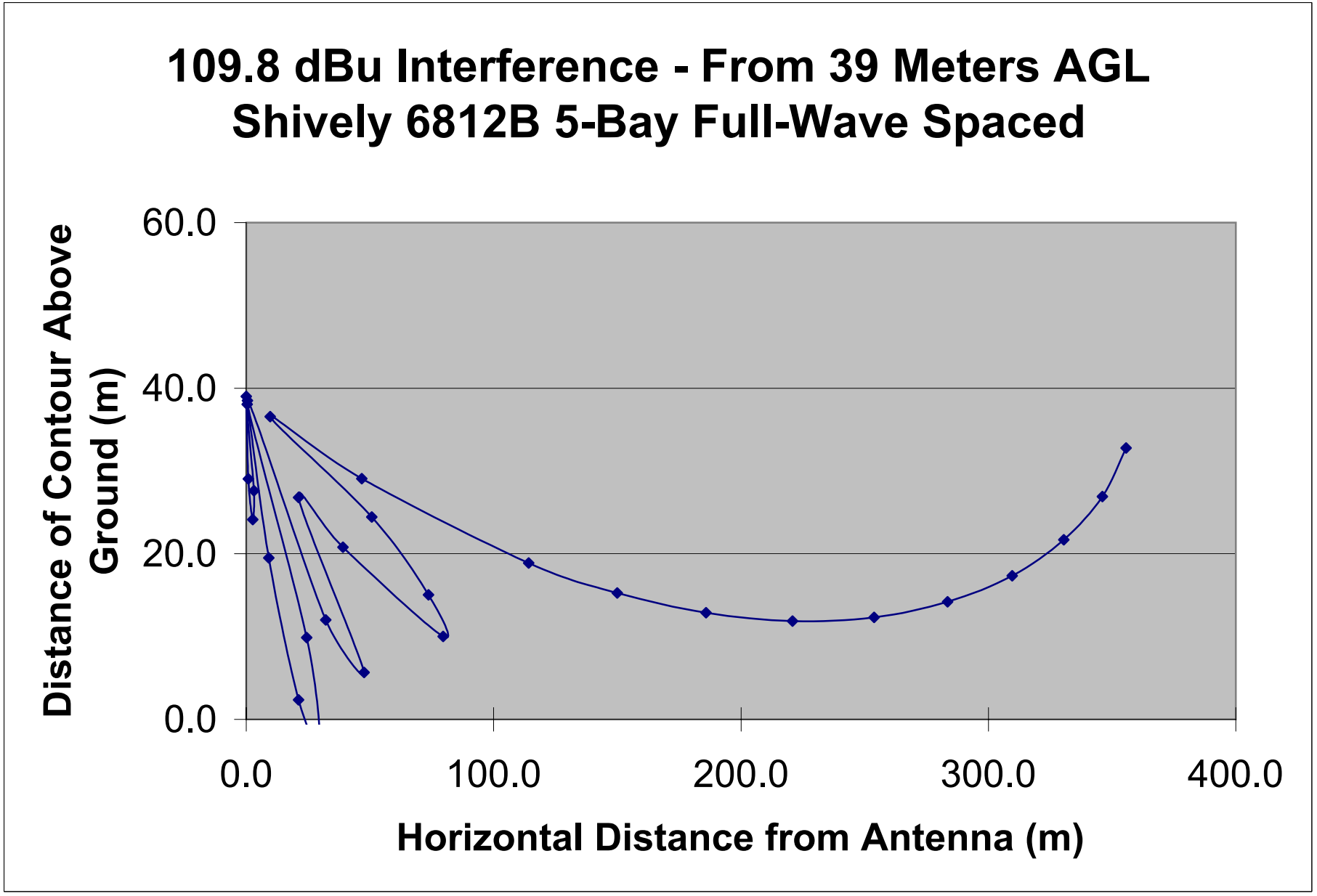
Degrees	Rel. Field
73	0.022
74	0.028
75	0.033
76	0.037
77	0.040
78	0.041
79	0.042
80	0.042
81	0.041
82	0.038
83	0.036
84	0.032
85	0.028
86	0.023
87	0.018
88	0.012
89	0.006
90	0.000

Tabulation of Interference Calculations

Elevation Angle	Relative Field	Power Watts	Slant Distance*	Dist. On Ground* (Horizontal)	Dist Above Ground to Contour* (Vertical)
1	.991	245.520	355.7	355.6	32.8
2	.965	232.806	346.3	346.1	26.9
3	.922	212.521	330.9	330.4	21.7
4	.865	187.056	310.4	309.6	17.3
5	.793	157.212	284.6	283.5	14.2
6	.711	126.380	255.2	253.8	12.3
7	.620	96.100	222.5	220.8	11.9
8	.523	68.382	187.7	185.9	12.9
9	.423	44.732	151.8	149.9	15.3
10	.323	26.082	115.9	114.1	18.9
12	.133	4.422	47.7	46.7	29.1
14	.028	0.196	10.0	9.7	36.6
16	.147	5.402	52.8	50.8	24.4
18	.216	11.664	77.5	73.7	15.1
20	.236	13.924	84.7	79.6	10.0
25	.120	3.600	43.1	39.1	20.8
30	.068	1.156	24.4	21.1	26.8
35	.162	6.561	58.1	47.6	5.7
40	.117	3.422	42.0	32.2	12.0
45	.002	0.001	0.7	0.5	38.5
50	.106	2.809	38.0	24.4	9.9
55	.144	5.184	51.7	29.7	-3.4
60	.118	3.481	42.3	21.2	2.4
65	.060	0.900	21.5	9.1	19.5

70	.003	0.002	1.0	0.3	38.1
75	.033	0.272	11.8	3.1	27.6
80	.042	0.441	15.1	2.6	24.1
85	.028	0.196	10.0	0.9	29.0
90	0.00	0.000	0.0	0.0	39.0

*All distances calculated in meters


109.8 dBu Interference - From 39 Meters AGL
Shively 6812B 5-Bay Full-Wave Spaced
Distance of Contour Above Ground (m)
60.0
40.0
20.0
0.0
0.0
100.0
200.0
300.0
400.0
Horizontal Distance from Antenna (m)