

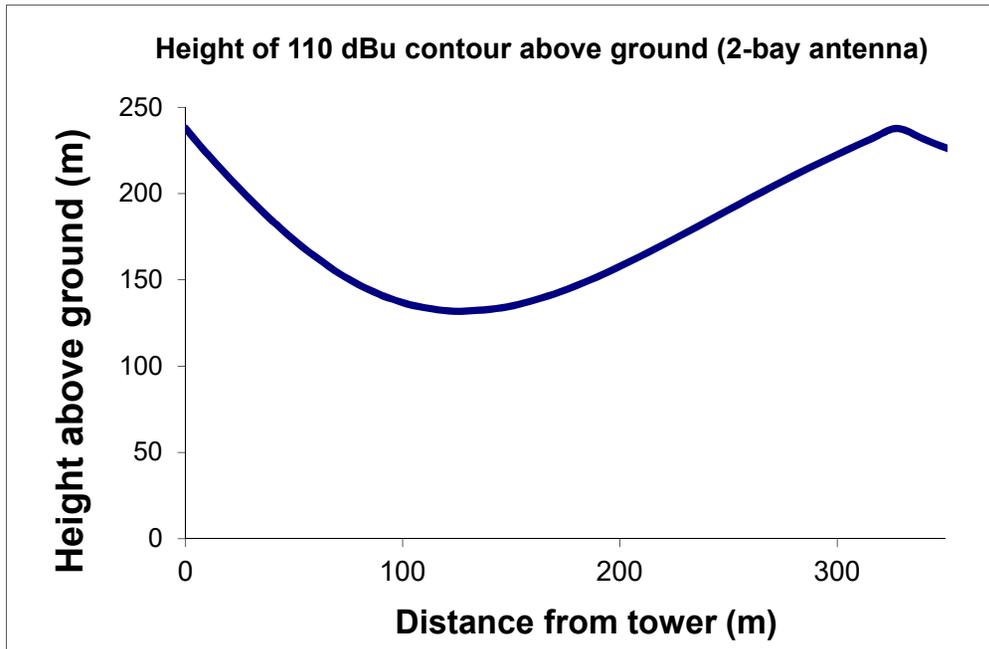
**Table 1**

**W231BX CH231 Seneca, SC  
Channel Study**

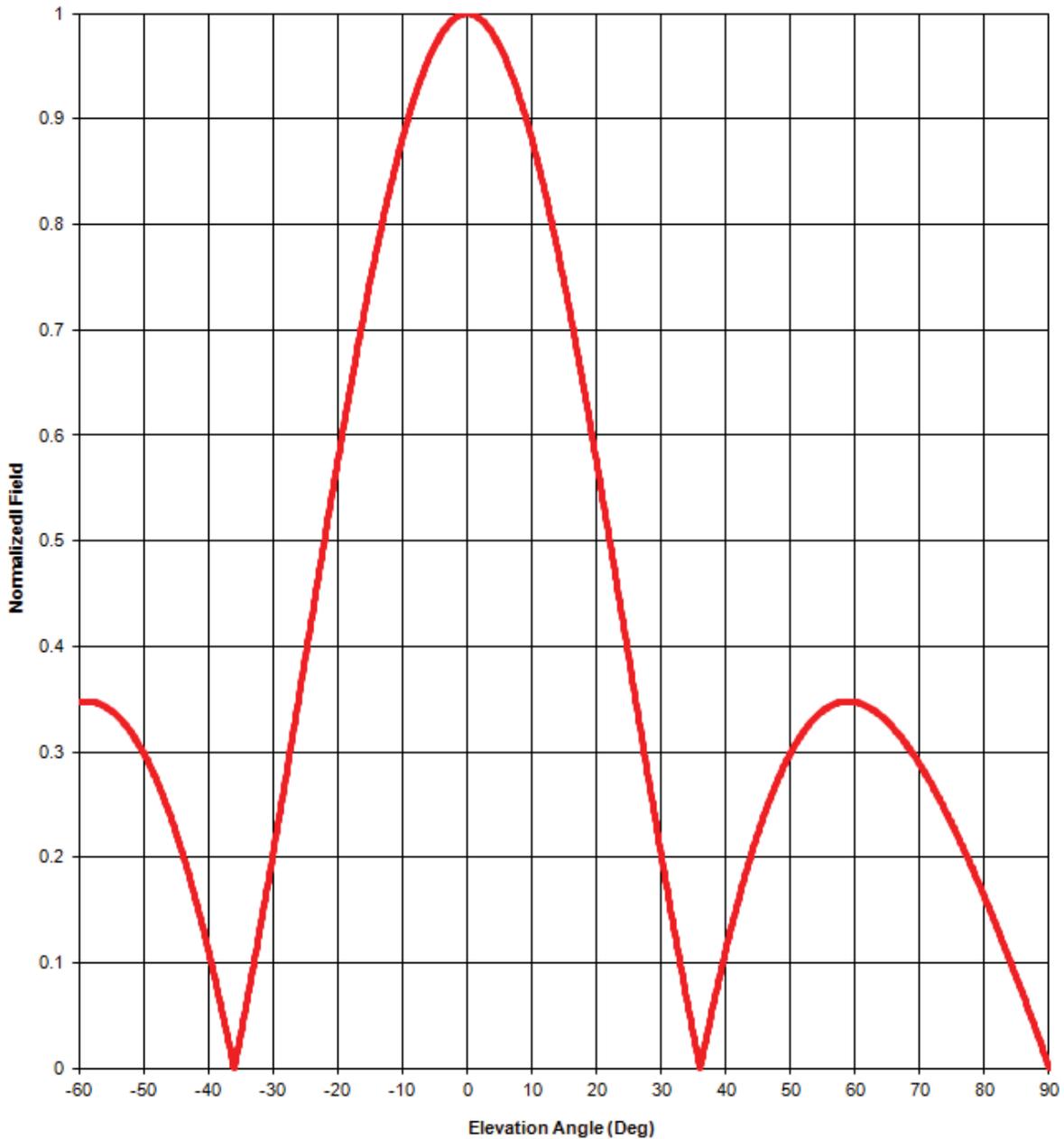
Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)	
229	C	WFBC-FM	FM	LIC	GREENVILLE	SC	US	ENTERCOM LICENSE, LLC	58.5	36.2	99.9	-41.3	76.4	(See Note)
230	D	W230CT	FX	LIC	CLEVELAND	GA	US	WHITE COUNTY MEDIA, LLC	73.8	259.6	52.4	21.3		
231	D	W231BX	FX	LIC	SENECA	GA	US	TUGART PROPERTIES, LLC	0.0	0.0	86.2	-86.2		(Same as applicant)
231	D	W231BX	FX	CP MOD	ANDERSON	SC	US	TUGART PROPERTIES, LLC	26.2	102.4	80.7	-54.5		(Same as applicant)
231	D	W231BA	FX	LIC	SPARTANBURG	SC	US	TOWER ABOVE MEDIA LLC	85.0	65.7	81.0	4.0		
231	D	W231DQ	FX	LIC	BRYSON CITY	NC	US	FIVE FORTY BROADCASTIN	93.1	330.1	81.2	11.9		
231	A	WGFJ	FM	LIC	CROSS HILL	SC	US	RADIO TRAINING NETWORK	112.5	118.2	97.3	15.3		
231	C0	WSTR	FM	LIC	SMYRNA	GA	US	ENTERCOM ATLANTA LICEN	161.3	230.6	139.4	21.9		
232	D	W244CQ	FX	CP	CLARKESVILLE	GA	US	WCHM RADIO, LLC.	51.3	260.1	39.1	12.2		
233	C	WGTK-FM	FM	LIC	GREENVILLE	SC	US	SALEM COMMUNICATIONS	59.7	61.6	85.3	-25.6	70.0	(See Note)

**NOTE:** With respect to WFBC-FM (2nd adjacent) WFBC-FM (LIC) has a field strength of 76.4 dBu F(50,50) at the proposed site and would therefore be susceptible to interference from the proposed facility. However, this is not the "worst case" since 2nd adjacent WGTK-FM has a field strength of only 70.0 dBu F(50,50) at the proposed site. Therefore WGTK-FM is the "worst case" facility susceptible to interference from the proposed facility and is discussed below.

**WORST CASE:** With respect to WGTK-FM (2nd adjacent) WGTK-FM (LIC) has a field strength of 70.0 dBu F(50,50) at the proposed site and would therefore be susceptible to interference from the proposed facility. Therefore the proposed translator's interfering contour is the 110.0 dBu F(50,10) contour. A two bay Shively 6812B antenna is proposed. The proposed 110.0 dBu F(50,10) contour would not reach down any closer than 126 meters AGL which occurs at a distance of 132 meters from the tower. Therefore, the interfering contour does not contain any structures or population. Therefore this proposal is compliant with the allowance of Rule



## Elevation pattern



Antenna model: 6812b, 2-bay full-wave-spaced

Test frequency: 98.1 MHz

Gain (maximum):

Power	dB
1.00	0.02 dB

Document No. 6812b 2-bay fw (130701)

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Degrees	Rel. Field
1	0.999
2	0.995
3	0.989
4	0.980
5	0.969
6	0.956
7	0.941
8	0.923
9	0.903
10	0.881
11	0.858
12	0.832
13	0.805
14	0.776
15	0.745
16	0.714
17	0.681
18	0.647

Degrees	Rel. Field
19	0.612
20	0.576
21	0.539
22	0.502
23	0.465
24	0.427
25	0.389
26	0.352
27	0.314
28	0.277
29	0.240
30	0.203
31	0.168
32	0.132
33	0.098
34	0.065
35	0.032
36	0.001

Degrees	Rel. Field
37	0.029
38	0.058
39	0.086
40	0.112
41	0.137
42	0.161
43	0.183
44	0.204
45	0.224
46	0.242
47	0.258
48	0.273
49	0.287
50	0.299
51	0.310
52	0.319
53	0.327
54	0.334

Degrees	Rel. Field
55	0.339
56	0.343
57	0.346
58	0.348
59	0.348
60	0.347
61	0.345
62	0.343
63	0.339
64	0.334
65	0.328
66	0.322
67	0.315
68	0.306
69	0.298
70	0.288
71	0.278
72	0.267

Degrees	Rel. Field
73	0.256
74	0.244
75	0.231
76	0.218
77	0.205
78	0.191
79	0.177
80	0.162
81	0.148
82	0.132
83	0.117
84	0.101
85	0.085
86	0.069
87	0.052
88	0.036
89	0.018
90	0.000

## Elevation Pattern Tabulation

Antenna model: 6812b, 2-bay full-wave-spaced

Relative Field at 0° Depression = 1.000