

Television Channel 6 Interference Protection

A study was conducted in accordance with 47CFR73.525 to determine the affected TV 6 stations. The results are included as Exhibit 15 herein contained. WBRC-TV was determined to be the only station requiring TV 6 contour protection study.



Figure 1 – WBRC-TV6 90 dBu F[50,50]

Minor Change CP Application Form 340
Briarwood Presbyterian Church
WLJR 203A Birmingham, AL

It has been determined that the TV-6 Interference area for the proposed WLJR modification is located entirely within the WBRC-TV6 90 dBu F[50,50] contour. This is clearly demonstrated in Figure 1 showing both the WBRC-TV 90dBu contour and the corresponding WLJR Interfering contour in red. 47CFR73.525(e)(1)(vii) requires that “the interfering FM contour must be determined using the assumption that the Channel 6 field strength remains constant at 90 dBu everywhere within the 90 dBu TV contour.” Since 47CFR73.599 shows a 4 dB contour protection ratio for a 90 dBu TV-6 contour, I used 86 dBu F[50,10] as the FM Interference Contour.

47CFR73.525(e)(4)(i) allows a x 10 multiplier for vertical-only polarization. Accordingly, this study uses 0.100 Kilowatts for the FM Interference Contour of the proposed 1.0 Kilowatt Vertical-only polarization minor-change modification. Tabular data for determining the contour boundaries is included in Table I.

U.S. Census 2000 Population within the FM Interference contour was determined by a block count centroid method using more accurate 3 second terrain data. The population centroids are identified using the US Census Record Number from the population count in Table 2. The NAD27 coordinate system was used for both maps.

47CFR73.525(c) prohibits more than 3,000 persons, after appropriate adjustments, within the FM vs. TV-6 Interference Contour. Table II indicates 2,809 persons within the FM Interference Contour according to the 2000 Census data. Therefore, this instant application meets the requirements of 47CFR73.525 for an acceptable interference level to potential TV-6 viewers.

Minor Change CP Application Form 340
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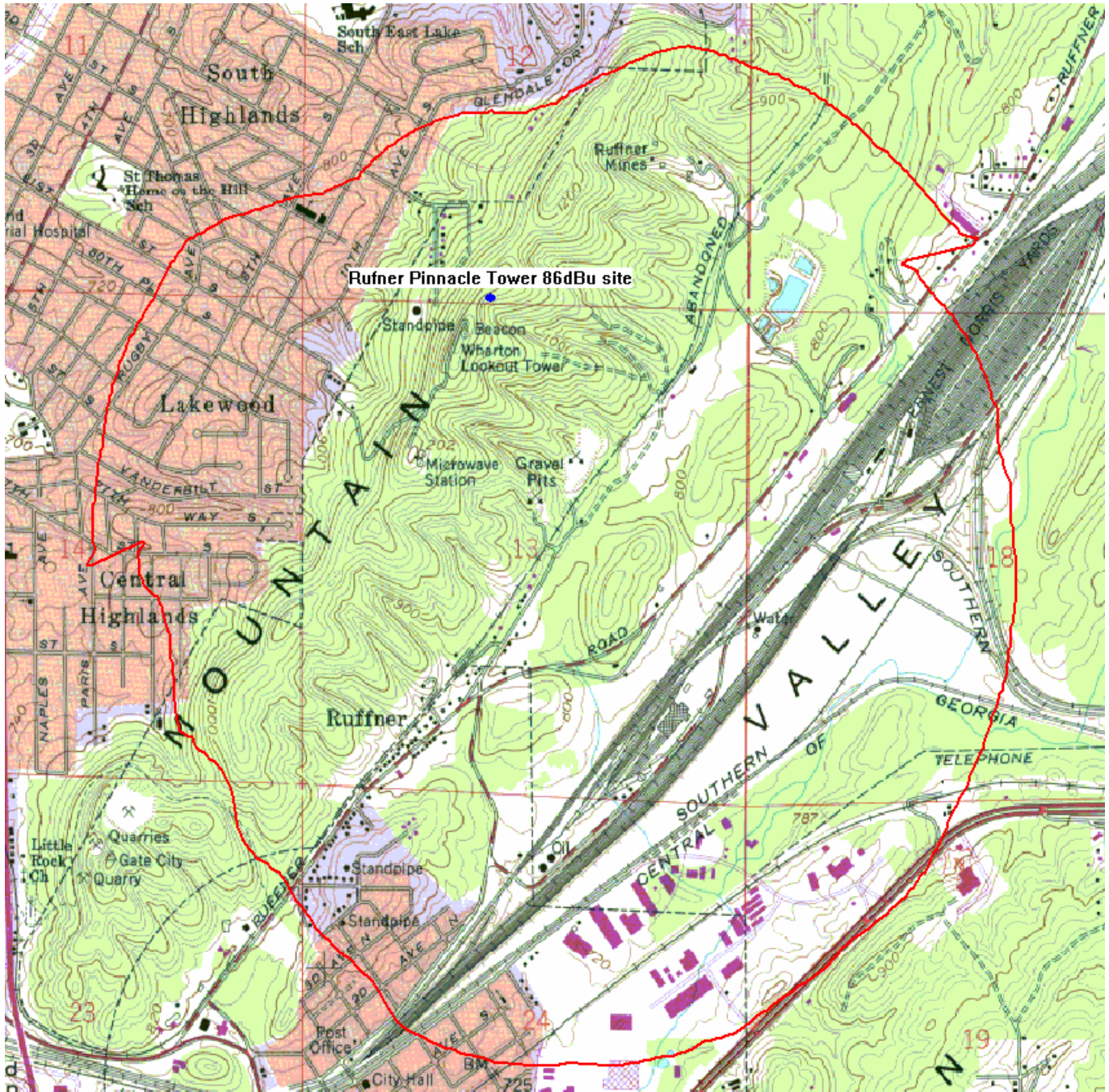


Figure 2 – US Census 2000 Centroids plotted on USGS 7.5 minute map with FM Interference Contour superimposed.

TV-6 Interference Study - Table I
 WLJR New Rufner Site vs. WBRC-TV6

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Distance to FM Contour

Study: Rufner Peak Pinnacle 86dBu 1kW TV-6 Ruf3
 Site: Rufner Pinnacle Tower 86dBu site

Latitude: N33-33-43.50
 Longitude: W86-42-06.50

True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 86.0 dBu F(50,10) (km)
0.00	234.96	155.04	0.0032	-24.95	0.63
1.00	231.18	158.82	0.0032	-24.95	0.63
2.00	231.33	158.67	0.0032	-24.95	0.63
3.00	230.12	159.88	0.0032	-24.95	0.63
4.00	228.65	161.35	0.0032	-24.95	0.63
5.00	227.81	162.19	0.0032	-24.95	0.63
6.00	228.17	161.83	0.0032	-24.95	0.63
7.00	226.80	163.20	0.0032	-24.95	0.63
8.00	225.70	164.30	0.0032	-24.95	0.63
9.00	226.80	163.20	0.0032	-24.95	0.63
10.00	231.28	158.72	0.0032	-24.95	0.63
11.00	234.07	155.93	0.00328	-24.84	0.64
12.00	236.81	153.19	0.00336	-24.74	0.64
13.00	236.17	153.83	0.00344	-24.63	0.65
14.00	239.04	150.96	0.00352	-24.53	0.66
15.00	238.78	151.22	0.0036	-24.44	0.67
16.00	238.27	151.73	0.00368	-24.34	0.67
17.00	240.45	149.55	0.00376	-24.25	0.68
18.00	242.34	147.66	0.00384	-24.16	0.69
19.00	245.20	144.80	0.00392	-24.07	0.70
20.00	249.65	140.35	0.004	-23.98	0.70
21.00	252.77	137.23	0.00423	-23.74	0.72
22.00	257.27	132.73	0.00446	-23.51	0.74
23.00	261.38	128.62	0.00469	-23.29	0.76
24.00	261.83	128.17	0.00492	-23.08	0.78
25.00	261.08	128.92	0.00515	-22.88	0.80
26.00	263.18	126.82	0.00538	-22.69	0.82
27.00	267.67	122.33	0.00561	-22.51	0.83
28.00	270.62	119.38	0.00584	-22.34	0.85
29.00	275.19	114.81	0.00607	-22.17	0.87
30.00	278.52	111.48	0.0063	-22.01	0.88
31.00	284.72	105.28	0.00667	-21.76	0.91
32.00	295.86	94.14	0.00704	-21.52	0.93
33.00	310.94	79.06	0.00741	-21.30	0.96
34.00	316.79	73.21	0.00778	-21.09	0.98
35.00	319.77	70.23	0.00815	-20.89	1.00
36.00	316.23	73.77	0.00852	-20.70	1.03
37.00	309.66	80.34	0.00889	-20.51	1.05
38.00	301.00	89.00	0.00926	-20.33	1.07
39.00	290.92	99.08	0.00963	-20.16	1.09

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 86.0 dBu F(50,10) (km)
40.00	282.24	107.76	0.01	-20.00	1.11
41.00	273.56	116.44	0.0102	-19.91	1.12
42.00	269.93	120.07	0.0104	-19.83	1.13
43.00	269.81	120.19	0.0106	-19.75	1.14
44.00	266.57	123.43	0.0108	-19.67	1.16
45.00	260.64	129.36	0.011	-19.59	1.17
46.00	256.68	133.32	0.0112	-19.51	1.18
47.00	255.95	134.05	0.0114	-19.43	1.19
48.00	254.99	135.01	0.0116	-19.36	1.20
49.00	252.26	137.74	0.0118	-19.28	1.21
50.00	251.38	138.62	0.012	-19.21	1.22
51.00	247.88	142.12	0.0123	-19.10	1.23
52.00	243.92	146.08	0.0126	-19.00	1.25
53.00	242.43	147.57	0.0129	-18.89	1.26
54.00	241.47	148.53	0.0132	-18.79	1.28
55.00	240.68	149.32	0.0135	-18.70	1.29
56.00	245.34	144.66	0.0138	-18.60	1.31
57.00	249.84	140.16	0.0141	-18.51	1.32
58.00	246.30	143.70	0.0144	-18.42	1.33
59.00	241.45	148.55	0.0147	-18.33	1.35
60.00	238.08	151.92	0.015	-18.24	1.36
61.00	243.96	146.04	0.0153	-18.15	1.38
62.00	247.01	142.99	0.0156	-18.07	1.39
63.00	248.74	141.26	0.0159	-17.99	1.40
64.00	245.77	144.23	0.0162	-17.90	1.41
65.00	244.22	145.78	0.0165	-17.83	1.43
66.00	241.78	148.22	0.0168	-17.75	1.44
67.00	239.20	150.80	0.0171	-17.67	1.45
68.00	233.81	156.19	0.0174	-17.59	1.47
69.00	231.21	158.79	0.0177	-17.52	1.48
70.00	229.08	160.92	0.018	-17.45	1.49
71.00	225.47	164.53	0.0184	-17.35	1.51
72.00	225.78	164.22	0.0188	-17.26	1.52
73.00	227.53	162.47	0.0192	-17.17	1.54
74.00	228.91	161.09	0.0196	-17.08	1.56
75.00	228.75	161.25	0.02	-16.99	1.57
76.00	225.13	164.87	0.0204	-16.90	1.59
77.00	219.09	170.91	0.0208	-16.82	1.60
78.00	213.91	176.09	0.0212	-16.74	1.62
79.00	212.30	177.70	0.0216	-16.66	1.63
80.00	213.32	176.68	0.022	-16.58	1.65
81.00	213.85	176.15	0.0227	-16.44	1.67
82.00	215.39	174.61	0.0234	-16.31	1.70
83.00	216.16	173.84	0.0241	-16.18	1.73
84.00	214.94	175.06	0.0248	-16.06	1.50
85.00	216.13	173.87	0.0255	-15.93	1.52

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 86.0 dBu F(50,10) (km)
86.00	215.60	174.40	0.0262	-15.82	1.54
87.00	216.12	173.88	0.0269	-15.70	1.56
88.00	215.65	174.35	0.0276	-15.59	1.58
89.00	214.40	175.60	0.0283	-15.48	1.60
90.00	211.79	178.21	0.029	-15.38	1.63
91.00	209.81	180.19	0.03	-15.23	1.66
92.00	207.87	182.13	0.031	-15.09	1.68
93.00	206.79	183.21	0.032	-14.95	1.71
94.00	207.06	182.94	0.033	-14.81	1.73
95.00	206.90	183.10	0.034	-14.69	1.75
96.00	206.77	183.23	0.035	-14.56	1.78
97.00	206.56	183.44	0.036	-14.44	1.80
98.00	207.15	182.85	0.037	-14.32	1.82
99.00	208.06	181.94	0.038	-14.20	1.84
100.00	209.46	180.54	0.039	-14.09	1.85
101.00	210.41	179.59	0.0402	-13.96	1.88
102.00	211.52	178.48	0.0414	-13.83	1.89
103.00	215.02	174.98	0.0426	-13.71	1.91
104.00	219.46	170.54	0.0438	-13.59	1.92
105.00	221.87	168.13	0.045	-13.47	1.93
106.00	222.89	167.11	0.0462	-13.35	1.94
107.00	221.37	168.63	0.0474	-13.24	1.97
108.00	218.93	171.07	0.0486	-13.13	1.99
109.00	218.03	171.97	0.0498	-13.03	2.02
110.00	218.14	171.86	0.051	-12.92	2.03
111.00	220.56	169.44	0.0525	-12.80	2.05
112.00	222.23	167.77	0.054	-12.68	2.07
113.00	222.34	167.66	0.0555	-12.56	2.09
114.00	223.26	166.74	0.057	-12.44	2.10
115.00	222.52	167.48	0.0585	-12.33	2.13
116.00	222.49	167.51	0.06	-12.22	2.15
117.00	223.03	166.97	0.0615	-12.11	2.17
118.00	222.41	167.59	0.063	-12.01	2.19
119.00	223.92	166.08	0.0645	-11.90	2.20
120.00	224.40	165.60	0.066	-11.80	2.22
121.00	223.95	166.05	0.0672	-11.73	2.23
122.00	222.89	167.11	0.0684	-11.65	2.25
123.00	221.94	168.06	0.0696	-11.57	2.27
124.00	220.57	169.43	0.0708	-11.50	2.29
125.00	220.23	169.77	0.072	-11.43	2.30
126.00	220.66	169.34	0.0732	-11.35	2.31
127.00	220.71	169.29	0.0744	-11.28	2.33
128.00	220.50	169.50	0.0756	-11.21	2.34
129.00	220.02	169.98	0.0768	-11.15	2.35
130.00	219.09	170.91	0.078	-11.08	2.37
131.00	219.05	170.95	0.0792	-11.01	2.38

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132.00	219.25	170.75	0.0804	-10.95	2.39
133.00	218.72	171.28	0.0816	-10.88	2.41
134.00	218.13	171.87	0.0828	-10.82	2.42
135.00	218.22	171.78	0.084	-10.76	2.43
136.00	217.51	172.49	0.0852	-10.70	2.45
137.00	216.70	173.30	0.0864	-10.63	2.46
138.00	214.98	175.02	0.0876	-10.57	2.48
139.00	214.09	175.91	0.0888	-10.52	2.50
140.00	213.46	176.54	0.09	-10.46	2.51
141.00	211.02	178.98	0.0908	-10.42	2.53
142.00	210.32	179.68	0.0916	-10.38	2.54
143.00	210.47	179.53	0.0924	-10.34	2.55
144.00	209.82	180.18	0.0932	-10.31	2.56
145.00	211.11	178.89	0.094	-10.27	2.56
146.00	211.36	178.64	0.0948	-10.23	2.57
147.00	212.98	177.02	0.0956	-10.20	2.57
148.00	213.29	176.71	0.0964	-10.16	2.58
149.00	214.30	175.70	0.0972	-10.12	2.58
150.00	214.17	175.83	0.098	-10.09	2.59
151.00	212.38	177.62	0.0982	-10.08	2.60
152.00	210.73	179.27	0.0984	-10.07	2.61
153.00	209.30	180.70	0.0986	-10.06	2.61
154.00	209.55	180.45	0.0988	-10.05	2.62
155.00	208.50	181.50	0.099	-10.04	2.62
156.00	207.80	182.20	0.0992	-10.03	2.63
157.00	206.15	183.85	0.0994	-10.03	2.64
158.00	205.00	185.00	0.0996	-10.02	2.64
159.00	203.19	186.81	0.0998	-10.01	2.65
160.00	200.66	189.34	0.1	-10.00	2.66
161.00	199.26	190.74	0.0998	-10.01	2.67
162.00	199.04	190.96	0.0996	-10.02	2.67
163.00	199.52	190.48	0.0994	-10.03	2.66
164.00	198.03	191.97	0.0992	-10.03	2.67
165.00	196.28	193.72	0.099	-10.04	2.67
166.00	195.63	194.37	0.0988	-10.05	2.68
167.00	195.97	194.03	0.0986	-10.06	2.67
168.00	195.73	194.27	0.0984	-10.07	2.67
169.00	195.79	194.21	0.0982	-10.08	2.67
170.00	196.10	193.90	0.098	-10.09	2.67
171.00	195.78	194.22	0.0972	-10.12	2.66
172.00	196.61	193.39	0.0964	-10.16	2.65
173.00	197.16	192.84	0.0956	-10.20	2.64
174.00	196.18	193.82	0.0948	-10.23	2.63
175.00	193.61	196.39	0.094	-10.27	2.64
176.00	192.56	197.44	0.0932	-10.31	2.63
177.00	191.52	198.48	0.0924	-10.34	2.63

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True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 86.0 dBu F(50,10) (km)
178.00	191.56	198.44	0.0916	-10.38	2.62
179.00	190.26	199.74	0.0908	-10.42	2.62
180.00	190.25	199.75	0.09	-10.46	2.61
181.00	189.98	200.02	0.0888	-10.52	2.60
182.00	189.11	200.89	0.0876	-10.57	2.59
183.00	188.89	201.11	0.0864	-10.63	2.58
184.00	188.27	201.73	0.0852	-10.70	2.57
185.00	187.67	202.33	0.084	-10.76	2.56
186.00	189.32	200.68	0.0828	-10.82	2.53
187.00	190.37	199.63	0.0816	-10.88	2.52
188.00	193.92	196.08	0.0804	-10.95	2.49
189.00	203.61	186.39	0.0792	-11.01	2.44
190.00	212.22	177.78	0.078	-11.08	2.40
191.00	215.80	174.20	0.0768	-11.15	2.37
192.00	219.28	170.72	0.0756	-11.21	2.35
193.00	220.91	169.09	0.0744	-11.28	2.33
194.00	221.73	168.27	0.0732	-11.35	2.31
195.00	223.24	166.76	0.072	-11.43	2.29
196.00	224.45	165.55	0.0708	-11.50	2.27
197.00	227.01	162.99	0.0696	-11.57	2.25
198.00	230.51	159.49	0.0684	-11.65	2.22
199.00	232.40	157.60	0.0672	-11.73	2.19
200.00	235.87	154.13	0.066	-11.80	2.16
201.00	237.89	152.11	0.0645	-11.90	2.14
202.00	236.83	153.17	0.063	-12.01	2.12
203.00	235.03	154.97	0.0615	-12.11	2.11
204.00	232.06	157.94	0.06	-12.22	2.11
205.00	230.53	159.47	0.0585	-12.33	2.10
206.00	230.98	159.02	0.057	-12.44	2.07
207.00	233.81	156.19	0.0555	-12.56	2.04
208.00	239.42	150.58	0.054	-12.68	2.00
209.00	244.77	145.23	0.0525	-12.80	1.96
210.00	247.75	142.25	0.051	-12.92	1.93
211.00	249.54	140.46	0.0498	-13.03	1.90
212.00	248.59	141.41	0.0486	-13.13	1.89
213.00	244.90	145.10	0.0474	-13.24	1.89
214.00	241.00	149.00	0.0462	-13.35	1.88
215.00	237.01	152.99	0.045	-13.47	1.88
216.00	234.95	155.05	0.0438	-13.59	1.87
217.00	228.55	161.45	0.0426	-13.71	1.87
218.00	225.55	164.45	0.0414	-13.83	1.86
219.00	227.08	162.92	0.0402	-13.96	1.83
220.00	230.03	159.97	0.039	-14.09	1.80
221.00	234.45	155.55	0.038	-14.20	1.77
222.00	238.60	151.40	0.037	-14.32	1.74
223.00	241.35	148.65	0.036	-14.44	1.71

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224.00	244.76	145.24	0.035	-14.56	1.68
225.00	246.73	143.27	0.034	-14.69	1.66
226.00	244.33	145.67	0.033	-14.81	1.64
227.00	241.75	148.25	0.032	-14.95	1.63
228.00	238.47	151.53	0.031	-15.09	1.61
229.00	237.21	152.79	0.03	-15.23	1.59
230.00	229.21	160.79	0.029	-15.38	1.59
231.00	217.57	172.43	0.0283	-15.48	1.60
232.00	207.89	182.11	0.0276	-15.59	1.60
233.00	199.36	190.64	0.0269	-15.70	1.59
234.00	194.20	195.80	0.0262	-15.82	1.57
235.00	190.61	199.39	0.0255	-15.93	1.56
236.00	187.70	202.30	0.0248	-16.06	1.54
237.00	184.98	205.02	0.0241	-16.18	1.52
238.00	182.32	207.68	0.0234	-16.31	1.50
239.00	180.07	209.93	0.0227	-16.44	1.67
240.00	177.83	212.17	0.022	-16.58	1.65
241.00	175.82	214.18	0.0216	-16.66	1.63
242.00	174.41	215.59	0.0212	-16.74	1.62
243.00	173.55	216.45	0.0208	-16.82	1.60
244.00	173.01	216.99	0.0204	-16.90	1.59
245.00	173.32	216.68	0.02	-16.99	1.57
246.00	173.86	216.14	0.0196	-17.08	1.56
247.00	175.80	214.20	0.0192	-17.17	1.54
248.00	178.93	211.07	0.0188	-17.26	1.52
249.00	181.42	208.58	0.0184	-17.35	1.51
250.00	181.93	208.07	0.018	-17.45	1.49
251.00	180.72	209.28	0.0177	-17.52	1.48
252.00	174.47	215.53	0.0174	-17.59	1.47
253.00	171.32	218.68	0.0171	-17.67	1.45
254.00	169.84	220.16	0.0168	-17.75	1.44
255.00	169.55	220.45	0.0165	-17.83	1.43
256.00	169.43	220.57	0.0162	-17.90	1.41
257.00	170.29	219.71	0.0159	-17.99	1.40
258.00	171.61	218.39	0.0156	-18.07	1.39
259.00	173.45	216.55	0.0153	-18.15	1.38
260.00	173.93	216.07	0.015	-18.24	1.36
261.00	174.87	215.13	0.0147	-18.33	1.35
262.00	175.89	214.11	0.0144	-18.42	1.33
263.00	176.90	213.10	0.0141	-18.51	1.32
264.00	177.79	212.21	0.0138	-18.60	1.31
265.00	178.59	211.41	0.0135	-18.70	1.29
266.00	179.29	210.71	0.0132	-18.79	1.28
267.00	179.92	210.08	0.0129	-18.89	1.26
268.00	180.60	209.40	0.0126	-19.00	1.25
269.00	180.97	209.03	0.0123	-19.10	1.23

TV-6 Interference Study - Table I
 WLJR New Rufner Site vs. WBRC-TV6

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 July 08, 2006

True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 86.0 dBu F(50,10) (km)
270.00	181.49	208.51	0.012	-19.21	1.22
271.00	182.08	207.92	0.0118	-19.28	1.21
272.00	182.54	207.46	0.0116	-19.36	1.20
273.00	183.77	206.23	0.0114	-19.43	1.19
274.00	184.99	205.01	0.0112	-19.51	1.18
275.00	186.56	203.44	0.011	-19.59	1.17
276.00	185.14	204.86	0.0108	-19.67	1.16
277.00	182.37	207.63	0.0106	-19.75	1.14
278.00	179.78	210.22	0.0104	-19.83	1.13
279.00	177.39	212.61	0.0102	-19.91	1.12
280.00	177.47	212.53	0.01	-20.00	1.11
281.00	177.37	212.63	0.00963	-20.16	1.09
282.00	173.91	216.09	0.00926	-20.33	1.07
283.00	170.87	219.13	0.00889	-20.51	1.05
284.00	169.39	220.61	0.00852	-20.70	1.03
285.00	168.07	221.93	0.00815	-20.89	1.00
286.00	167.82	222.18	0.00778	-21.09	0.98
287.00	166.82	223.18	0.00741	-21.30	0.96
288.00	166.77	223.23	0.00704	-21.52	0.93
289.00	170.17	219.83	0.00667	-21.76	0.91
290.00	174.93	215.07	0.0063	-22.01	0.88
291.00	176.35	213.65	0.00607	-22.17	0.87
292.00	175.75	214.25	0.00584	-22.34	0.85
293.00	176.96	213.04	0.00561	-22.51	0.83
294.00	178.32	211.68	0.00538	-22.69	0.82
295.00	178.92	211.08	0.00515	-22.88	0.80
296.00	180.66	209.34	0.00492	-23.08	0.78
297.00	181.56	208.44	0.00469	-23.29	0.76
298.00	180.76	209.24	0.00446	-23.51	0.74
299.00	178.32	211.68	0.00423	-23.74	0.72
300.00	179.54	210.46	0.004	-23.98	0.70
301.00	181.93	208.07	0.00392	-24.07	0.70
302.00	182.53	207.47	0.00384	-24.16	0.69
303.00	184.90	205.10	0.00376	-24.25	0.68
304.00	184.54	205.46	0.00368	-24.34	0.67
305.00	183.04	206.96	0.0036	-24.44	0.67
306.00	182.29	207.71	0.00352	-24.53	0.66
307.00	180.31	209.69	0.00344	-24.63	0.65
308.00	179.60	210.40	0.00336	-24.74	0.64
309.00	181.45	208.55	0.00328	-24.84	0.64
310.00	184.43	205.57	0.0032	-24.95	0.63
311.00	188.72	201.28	0.0032	-24.95	0.63
312.00	191.86	198.14	0.0032	-24.95	0.63
313.00	193.91	196.09	0.0032	-24.95	0.63
314.00	195.01	194.99	0.0032	-24.95	0.63
315.00	195.51	194.49	0.0032	-24.95	0.63

TV-6 Interference Study - Table I
 WLJR New Rufner Site vs. WBRC-TV6

Page 8 of 9
 July 08, 2006

True Radial Bearing (Degrees)	Average Elevation (meters)	Radiation Center Height Above Average Terrain (meters)	Effective Radiated Power (KW)	(dBKW)	Distance to Contour 86.0 dBu F(50,10) (km)
316.00	196.35	193.65	0.0032	-24.95	0.63
317.00	197.02	192.98	0.0032	-24.95	0.63
318.00	196.86	193.14	0.0032	-24.95	0.63
319.00	196.43	193.57	0.0032	-24.95	0.63
320.00	195.19	194.81	0.0032	-24.95	0.63
321.00	190.18	199.82	0.0032	-24.95	0.63
322.00	188.47	201.53	0.0032	-24.95	0.63
323.00	187.57	202.43	0.0032	-24.95	0.63
324.00	186.36	203.64	0.0032	-24.95	0.63
325.00	189.77	200.23	0.0032	-24.95	0.63
326.00	192.72	197.28	0.0032	-24.95	0.63
327.00	198.24	191.76	0.0032	-24.95	0.63
328.00	201.86	188.14	0.0032	-24.95	0.63
329.00	204.10	185.90	0.0032	-24.95	0.63
330.00	201.92	188.08	0.0032	-24.95	0.63
331.00	201.33	188.67	0.0032	-24.95	0.63
332.00	199.95	190.05	0.0032	-24.95	0.63
333.00	198.22	191.78	0.0032	-24.95	0.63
334.00	198.39	191.61	0.0032	-24.95	0.63
335.00	203.95	186.05	0.0032	-24.95	0.63
336.00	207.79	182.21	0.0032	-24.95	0.63
337.00	209.02	180.98	0.0032	-24.95	0.63
338.00	210.97	179.03	0.0032	-24.95	0.63
339.00	211.74	178.26	0.0032	-24.95	0.63
340.00	211.57	178.43	0.0032	-24.95	0.63
341.00	211.69	178.31	0.0032	-24.95	0.63
342.00	212.67	177.33	0.0032	-24.95	0.63
343.00	215.25	174.75	0.0032	-24.95	0.63
344.00	217.17	172.83	0.0032	-24.95	0.63
345.00	215.77	174.23	0.0032	-24.95	0.63
346.00	214.13	175.87	0.0032	-24.95	0.63
347.00	215.56	174.44	0.0032	-24.95	0.63
348.00	217.41	172.59	0.0032	-24.95	0.63
349.00	217.81	172.19	0.0032	-24.95	0.63
350.00	219.40	170.60	0.0032	-24.95	0.63
351.00	221.62	168.38	0.0032	-24.95	0.63
352.00	223.07	166.93	0.0032	-24.95	0.63
353.00	223.28	166.72	0.0032	-24.95	0.63
354.00	225.92	164.08	0.0032	-24.95	0.63
355.00	228.96	161.04	0.0032	-24.95	0.63
356.00	231.92	158.08	0.0032	-24.95	0.63
357.00	233.33	156.67	0.0032	-24.95	0.63
358.00	233.87	156.13	0.0032	-24.95	0.63
359.00	234.41	155.59	0.0032	-24.95	0.63

TV-6 Interference Study - Table I
WLJR New Rufner Site vs. WBRC-TV6

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July 08, 2006

Radiation Center (AGL):	22.7 meters	74.5 feet
Radiation Center (AMSL):	390.0 meters	1279.5 feet
Radiation Center (HAAT):	175.6 meters	576.0 feet
Average Terrain (AMSL):	214.4 meters	703.5 feet
Ground AMSL:	367.3 meters	1205.1 feet

Peak ERP: 0.1 KW
Frequency: 88.5 MHz
Antenna:
Orientation: 160.00°
Downtilt: 0.00°

Area within 86.0 dBu F(50,10) Contour is 8.64392 km

Minor Change CP Application Form 340

Briarwood Presbyterian Church

WLJR 203A Birmingham, AL

TABLE II
Kilgore Broadcast Maintenance
Oconto Falls, Wisconsin

Page 1
07-08-2006

Site Reference Name: Rufner Pinnacle Tower 86dBu site
 Site Reference Latitude: N 33 - 33 - 43 Contour File: wljr_pin.SIT
 Site Reference Longitude: W 86 - 42 - 6 Population File: al_wljr.POP

M A P	Record	North	West	People	Houses	County		Grp		
	Number	Latitude	Longitude			ST		Tract	Block	
	85287	33-33-17	086-42-26	430	157	AL	073	002000	1	1000
	85288	33-33-13	086-42-41	40	14	AL	073	002000	1	1001
	85289	33-33-17	086-42-53	17	8	AL	073	002000	1	1002
	85290	33-33-18	086-42-57	21	12	AL	073	002000	1	1003
	85291	33-33-23	086-42-48	314	131	AL	073	002000	1	1004
	85292	33-33-34	086-42-41	51	18	AL	073	002000	1	1005
	85297	33-33-36	086-42-50	56	21	AL	073	002000	2	2000
	85298	33-33-36	086-42-56	33	19	AL	073	002000	2	2001
	85306	33-33-32	086-42-54	41	24	AL	073	002000	2	2009
	85307	33-33-28	086-42-55	95	43	AL	073	002000	2	2010
	85315	33-33-22	086-42-59	38	17	AL	073	002000	2	2018
	85316	33-33-19	086-43- 1	41	16	AL	073	002000	2	2019
	85352	33-33-43	086-42- 6	92	41	AL	073	002100	1	1000
	85353	33-33-49	086-42-11	32	10	AL	073	002100	1	1001
	85356	33-33-59	086-42-19	56	27	AL	073	002100	1	1004
	85370	33-33-49	086-42-39	54	20	AL	073	002100	1	1018
	85371	33-33-51	086-42-45	39	13	AL	073	002100	1	1019
	85372	33-33-47	086-42-41	41	17	AL	073	002100	1	1020
	85378	33-33-41	086-42-54	41	19	AL	073	002100	1	1026
	85379	33-33-39	086-42-46	35	17	AL	073	002100	1	1027
	85380	33-33-42	086-42-45	36	21	AL	073	002100	1	1028
	85381	33-33-45	086-42-44	40	15	AL	073	002100	1	1029
	85382	33-33-43	086-42-37	62	25	AL	073	002100	1	1030
	85383	33-33-48	086-42-33	54	21	AL	073	002100	1	1031
	85384	33-33-48	086-42-26	138	60	AL	073	002100	1	1032
	85385	33-33-38	086-42-29	33	16	AL	073	002100	1	1033
	85386	33-33-39	086-42-34	0	0	AL	073	002100	1	1034
	85387	33-33-38	086-42-39	40	18	AL	073	002100	1	1035
	85388	33-33-35	086-42-33	35	16	AL	073	002100	1	1036
	85423	33-33-12	086-42-47	39	14	AL	073	002200	1	1000
	85424	33-33-12	086-42-51	42	14	AL	073	002200	1	1001
	85425	33-33-12	086-42-55	30	17	AL	073	002200	1	1002
	85444	33-33- 7	086-42-51	79	24	AL	073	002200	1	1021
	88652	33-34- 5	086-41-43	122	45	AL	073	005302	2	2021
	92815	33-33- 3	086-42- 3	10	5	AL	073	012602	3	3046
	92816	33-32-59	086-42-11	19	9	AL	073	012602	3	3048
	92817	33-32-59	086-42- 8	17	8	AL	073	012602	3	3049
	92818	33-32-45	086-42-13	133	60	AL	073	012602	3	3050
	92819	33-32-56	086-42-15	5	3	AL	073	012602	3	3051
	92820	33-32-37	086-42-20	21	10	AL	073	012602	3	3052
	92821	33-32-34	086-42-23	27	10	AL	073	012602	3	3053
	92824	33-32-28	086-42-24	23	14	AL	073	012602	3	3056
	92825	33-32-31	086-42-20	18	11	AL	073	012602	3	3057

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Briarwood Presbyterian Church

WLJR 203A Birmingham, AL

TABLE II
Kilgore Broadcast Maintenance
Oconto Falls, Wisconsin

Page 2
07-08-2006

Site Reference Name: Rufner Pinnacle Tower 86dBu site
 Site Reference Latitude: N 33 - 33 - 43 Contour File: wljr_pin.SIT
 Site Reference Longitude: W 86 - 42 - 6 Population File: al_wljr.POP

M A P	Record		North		West		County		Grp	
	Number	Latitude	Longitude	People	Houses	ST		Tract		Block
	92826	33-32-28	086-42-18	16	6	AL 073		012602	3	3058
	92827	33-32-31	086-42-14	14	4	AL 073		012602	3	3059
	92828	33-32-33	086-42-11	2	1	AL 073		012602	3	3060
	92829	33-32-38	086-42- 6	0	0	AL 073		012602	3	3061
	92830	33-32-51	086-42- 4	0	0	AL 073		012602	3	3062
	92831	33-32-34	086-42- 0	0	0	AL 073		012602	3	3063
	92835	33-32-25	086-42-21	20	6	AL 073		012602	3	3067
	92853	33-32-43	086-41-36	0	0	AL 073		012602	4	4000
	92854	33-32-32	086-41-50	0	0	AL 073		012602	4	4001
	92855	33-32-26	086-42- 0	6	3	AL 073		012602	4	4002
	92856	33-32-25	086-42- 7	51	17	AL 073		012602	4	4003
	92857	33-32-22	086-42-12	12	10	AL 073		012602	4	4004
	92871	33-32-19	086-42-10	31	13	AL 073		012602	4	4018
	92872	33-32-22	086-42- 5	27	10	AL 073		012602	4	4019
	92873	33-32-20	086-42- 4	6	3	AL 073		012602	4	4020
	92874	33-32-21	086-41-51	29	14	AL 073		012602	4	4021
	92916	33-32-50	086-41- 2	0	0	AL 073		012701	1	1038
	92917	33-32-42	086-41-13	1	1	AL 073		012701	1	1039
	92922	33-32-21	086-41-36	1	1	AL 073		012701	1	1047
	92924	33-32-31	086-41-35	0	0	AL 073		012701	1	1049
	92925	33-32-30	086-41-26	0	0	AL 073		012701	1	1050
	94738	33-33-13	086-42-13	0	0	AL 073		002000	1	1006
	94739	33-32-51	086-42-30	0	0	AL 073		002000	1	1007
	95745	33-33-12	086-41-28	0	0	AL 073		012602	3	3025
	95748	33-33-22	086-41- 0	0	0	AL 073		012602	3	3028
	95749	33-33-24	086-41- 5	0	0	AL 073		012602	3	3029
	95750	33-33-17	086-41-17	0	0	AL 073		012602	3	3030
	95751	33-32-55	086-41-28	0	0	AL 073		012602	3	3031
	95752	33-33- 5	086-41- 5	0	0	AL 073		012602	3	3032
	95753	33-33-11	086-41- 1	0	0	AL 073		012602	3	3033
	95756	33-33- 9	086-41-50	0	0	AL 073		012602	3	3044
	95757	33-33- 3	086-41-51	0	0	AL 073		012602	3	3045
	95758	33-33-14	086-42- 0	3	1	AL 073		012602	3	3047
	95777	33-33- 1	086-40-59	0	0	AL 073		012701	1	1036
<hr/>										
	GRAND TOTALS:			2809	1170					
				PEOPLE	HOUSES					