

WRBK

Richburg Educational Broadcasters, Inc.

Richburg, South Carolina

Allocation Exhibit

May 2004

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Timothy L. Warner, Inc.
Post Office Box 8045
Asheville, North Carolina 28814-8045
(828) 258-1238
twarner@tlwinc.net

WRBK
Richburg Educational Broadcasters, Inc.
Richburg, South Carolina
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Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Engineering Exhibit for the Richburg Educational Broadcasters, Inc., and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



Timothy L. Warner, P.E.
87 North Liberty Street
Asheville, North Carolina 28801
(828) 258-1238
17 May 2004

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Narrative

This exhibit supports the attached application of Richburg Educational Broadcasters, Inc., for modified facilities for WRBK File No. BLED-20020909AAJ. The modification proposes a minor change. The changes are limited to a modification of the directional antenna pattern and an increase in Effective Radiated Power (“ERP”). This modification is a minor change under §73.3573(a)(1).

This application is coordinated with an amendment which is being filed simultaneously by University Radio Foundation, Inc. (“URFI”) for WFAE, Charlotte, North Carolina, BMPED-20040206AAR. The URFI amendment modifies the directional pattern in the underlying application which proposes a minor change.

Allocations

An updated allocation table is included on page 18 of this exhibit. Figure 1 shows the relationship between the proposed WRBK facilities and all facilities where the separation of relevant contours is 16 kilometers (10 miles) or less

The proposed WRBK contours over the azimuths of interest are tabulated on pages 6 through 13 of this exhibit. The protected and interfering contours for the facilities where the lack of overlap is less than 5 kilometers (3 miles) are on the following pages.

Figure 2 shows the relationship between the proposed WRBK 100 dBu F(50,10) contour and the 60 dBu F(50,50) service contours for the WFAE application, file number BMPED-20040206AAR, and the modified contour which is the subject of a coordinated amendment which URFI is filing simultaneously with the instant application.

Figure 3 shows the relationship of the proposed facilities with the licensed facilities of WEPR, Greenville, South Carolina. Figure 3A is an expanded scale of the same information showing the lack of overlap of the proposed WRBK 60 dBu F(50,50) with the WEPR 54 dBu F(50,10) contour.

Figure 4 demonstrates the lack of overlap of the proposed WRBK 100 dBu F(50,10) contour with the licensed 60 dBu F(50,50) contour of WMHK, Columbia, South Carolina.

Figure 5 shows the licensed and proposed 60 dBu F(50,50) service contours for WRBK. The cardinal radials which were used to calculate the HAAT are shown.

All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments with terrain data extracted from the V-Soft Communications NED 03 terrain database. The NED 03 database is derived from the USGS National Elevation Data 30 meter terrain database. The USGS National Elevation Dataset has been developed by merging the highest-resolution, best-quality elevation data available across the United States into a seamless raster format. NED is the result of the maturation of the USGS effort to provide 1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska. Contours are calculated by Probe 3™ from V-Soft Communications, Inc.

Channel 6 Television

There is one Channel 6 Television stations within the 195 kilometer study distance required for operation on Channel 212, 90.3 MHz. WJBF, Augusta, Georgia, has licensed facilities, a construction permit for modified facilities, and an application for a modification of construction permit. The application proposes the greatest HAAT and the greatest distance to the 47 dBu F(50,50) Grade B contour. Only the application facilities are studied. Figure 6 shows the lack of overlap of the proposed WRBK 68.8 dBu F(50,10) contour with the proposed WJBF. This proposal therefore is in compliance with §73.525.

Proposed Site

The proposed site is the existing electronic site. The proposed antenna will be mounted to an existing tower. There are no predicted negative impacts from the proposed changes.

Directional Antenna

This application proposes a Shively Labs 6810-5DA directional antenna array. The maximum relative field, encompassing both horizontal and vertical polarizations, is plotted as Figure 7 and tabulated as Figure 8.

The tower design will be incorporated by the antenna manufacturer in the design of the directional antenna array. No other antennas of any type will be mounted in the vertical aperture of the antenna. The antenna will be mounted so that all horizontal and vertical separations required by the antenna manufacturer are maintained free and clear of all obstructions. The antenna will not be mounted on a standard broadcast antenna.

Prior to fabrication, a scale section of the antenna and the antenna mounting structure, including all feed lines, conduits and other appurtenances, will be constructed and used to determine the final antenna configuration. A complete proof of performance will be prepared by the manufacturer. The antenna will be mounted to the tower as specified by the antenna manufacturer. The orientation will be confirmed by a registered land surveyor. The assembly and installation of the antenna will be confirmed by a qualified engineer.

WRBK Contour Tabulation

Page 1 of 8

Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 0	0.845	5.4	145.0	32.6	91.8	49.3	3.1
1	0.851	5.4	142.8	32.5	91.7	49.2	3.1
2	0.856	5.5	141.5	32.4	91.7	49.2	3.1
3	0.862	5.6	141.4	32.5	91.9	49.3	3.1
4	0.867	5.6	142.4	32.7	92.2	49.6	3.1
5	0.873	5.7	144.2	33.0	92.7	50.0	3.1
6	0.878	5.8	145.2	33.2	93.0	50.2	3.2
7	0.884	5.9	144.4	33.2	93.1	50.3	3.2
8	0.889	5.9	144.9	33.4	93.4	50.5	3.2
9	0.895	6.0	144.2	33.4	93.5	50.5	3.2
10	0.900	6.1	144.5	33.6	93.7	50.7	3.2
11	0.902	6.1	146.9	33.9	94.1	51.1	3.2
12	0.904	6.1	148.3	34.1	94.4	51.3	3.2
13	0.906	6.2	147.2	34.0	94.3	51.2	3.2
14	0.908	6.2	146.1	33.9	94.2	51.1	3.2
15	0.910	6.2	145.2	33.8	94.1	51.0	3.2
16	0.912	6.2	143.6	33.7	94.0	50.9	3.2
17	0.914	6.3	141.8	33.5	93.8	50.7	3.2
18	0.916	6.3	140.1	33.3	93.6	50.5	3.2
19	0.918	6.3	140.6	33.4	93.8	50.6	3.2
20	0.920	6.3	141.9	33.6	94.0	50.8	3.2
21	0.923	6.4	142.5	33.7	94.2	51.0	3.2
22	0.926	6.4	140.4	33.6	94.0	50.8	3.2
23	0.929	6.5	141.4	33.7	94.3	51.0	3.2
24	0.932	6.5	143.5	34.0	94.7	51.3	3.3
25	0.935	6.6	144.2	34.1	94.9	51.5	3.3
26	0.938	6.6	142.7	34.0	94.7	51.4	3.3
27	0.941	6.6	141.2	33.9	94.6	51.2	3.3
28	0.944	6.7	140.4	33.9	94.6	51.2	3.3
29	0.947	6.7	141.3	34.0	94.8	51.4	3.3
30	0.950	6.8	140.7	34.0	94.9	51.4	3.3
31	0.951	6.8	141.0	34.0	94.9	51.4	3.3
32	0.952	6.8	142.0	34.2	95.1	51.6	3.3
33	0.953	6.8	142.5	34.3	95.2	51.7	3.3
34	0.954	6.8	144.2	34.5	95.5	52.0	3.3
35	0.955	6.8	145.2	34.6	95.7	52.1	3.3
36	0.956	6.9	147.6	34.9	96.0	52.5	3.4
37	0.957	6.9	148.5	35.0	96.2	52.6	3.4
38	0.958	6.9	147.4	34.9	96.1	52.5	3.4
39	0.959	6.9	149.3	35.1	96.4	52.8	3.4
40	0.960	6.9	149.5	35.2	96.4	52.8	3.4
41	0.962	6.9	148.7	35.1	96.4	52.7	3.4
42	0.964	7.0	148.8	35.2	96.5	52.8	3.4
43	0.966	7.0	148.7	35.2	96.5	52.8	3.4
44	0.968	7.0	148.1	35.1	96.5	52.8	3.4

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 45	0.970	7.1	149.1	35.3	96.7	53.0	3.4
46	0.972	7.1	149.2	35.3	96.8	53.1	3.4
47	0.974	7.1	149.8	35.4	96.9	53.2	3.4
48	0.976	7.1	149.1	35.4	96.9	53.1	3.4
49	0.978	7.2	149.1	35.4	97.0	53.2	3.4
50	0.980	7.2	149.2	35.5	97.0	53.2	3.4
51	0.982	7.2	149.3	35.5	97.1	53.3	3.4
52	0.984	7.3	151.2	35.8	97.5	53.6	3.5
53	0.986	7.3	150.9	35.8	97.5	53.6	3.5
54	0.988	7.3	149.6	35.7	97.4	53.5	3.4
55	0.990	7.4	150.4	35.8	97.6	53.6	3.5
56	0.992	7.4	151.1	35.9	97.7	53.8	3.5
57	0.994	7.4	151.7	36.0	97.9	53.9	3.5
58	0.996	7.4	153.8	36.3	98.2	54.2	3.5
59	0.998	7.5	155.9	36.5	98.6	54.6	3.5
60	1.000	7.5	155.5	36.5	98.6	54.6	3.5
61	1.000	7.5	155.2	36.5	98.5	54.5	3.5
62	1.000	7.5	154.3	36.4	98.4	54.4	3.5
63	1.000	7.5	155.0	36.5	98.5	54.5	3.5
64	1.000	7.5	154.1	36.4	98.4	54.4	3.5
65	1.000	7.5	154.3	36.4	98.4	54.4	3.5
66	1.000	7.5	154.0	36.4	98.4	54.3	3.5
67	1.000	7.5	152.4	36.2	98.1	54.1	3.5
68	1.000	7.5	153.1	36.3	98.3	54.2	3.5
69	1.000	7.5	154.6	36.4	98.5	54.4	3.5
70	1.000	7.5	154.8	36.5	98.5	54.5	3.5
71	1.000	7.5	154.4	36.4	98.4	54.4	3.5
72	1.000	7.5	154.4	36.4	98.4	54.4	3.5
73	1.000	7.5	155.0	36.5	98.5	54.5	3.5
74	1.000	7.5	155.4	36.5	98.6	54.5	3.5
75	1.000	7.5	155.1	36.5	98.5	54.5	3.5
76	1.000	7.5	155.2	36.5	98.5	54.5	3.5
77	1.000	7.5	155.5	36.5	98.6	54.6	3.5
78	1.000	7.5	154.6	36.4	98.5	54.4	3.5
79	1.000	7.5	155.3	36.5	98.5	54.5	3.5
80	1.000	7.5	155.7	36.6	98.6	54.6	3.5
81	1.000	7.5	156.0	36.6	98.7	54.6	3.5
82	1.000	7.5	157.0	36.7	98.8	54.7	3.6
83	1.000	7.5	157.5	36.8	98.9	54.8	3.6
84	1.000	7.5	157.0	36.7	98.8	54.8	3.6
85	1.000	7.5	155.6	36.5	98.6	54.6	3.5
86	1.000	7.5	155.2	36.5	98.5	54.5	3.5
87	1.000	7.5	155.3	36.5	98.5	54.5	3.5
88	1.000	7.5	157.0	36.7	98.8	54.8	3.6
89	1.000	7.5	156.9	36.7	98.8	54.7	3.6

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 90	1.000	7.5	155.7	36.6	98.6	54.6	3.5
91	1.000	7.5	157.0	36.7	98.8	54.8	3.6
92	1.000	7.5	158.4	36.9	99.0	54.9	3.6
93	1.000	7.5	156.6	36.7	98.7	54.7	3.5
94	1.000	7.5	155.3	36.5	98.6	54.5	3.5
95	1.000	7.5	156.4	36.6	98.7	54.7	3.5
96	1.000	7.5	156.7	36.7	98.7	54.7	3.5
97	1.000	7.5	155.3	36.5	98.6	54.5	3.5
98	1.000	7.5	155.9	36.6	98.6	54.6	3.5
99	1.000	7.5	155.6	36.5	98.6	54.6	3.5
100	1.000	7.5	155.1	36.5	98.5	54.5	3.5
101	1.000	7.5	155.3	36.5	98.6	54.5	3.5
102	1.000	7.5	157.6	36.8	98.9	54.8	3.6
103	1.000	7.5	158.3	36.8	99.0	54.9	3.6
104	1.000	7.5	156.5	36.6	98.7	54.7	3.5
105	1.000	7.5	156.3	36.6	98.7	54.7	3.5
106	1.000	7.5	157.9	36.8	98.9	54.9	3.6
107	1.000	7.5	160.4	37.1	99.2	55.2	3.6
108	1.000	7.5	158.8	36.9	99.0	55.0	3.6
109	1.000	7.5	159.9	37.0	99.2	55.1	3.6
110	1.000	7.5	160.2	37.1	99.2	55.2	3.6
111	1.000	7.5	159.6	37.0	99.1	55.1	3.6
112	1.000	7.5	160.6	37.1	99.3	55.2	3.6
113	1.000	7.5	161.9	37.2	99.5	55.4	3.6
114	1.000	7.5	162.5	37.3	99.5	55.5	3.6
115	1.000	7.5	162.8	37.3	99.6	55.5	3.6
116	1.000	7.5	162.7	37.3	99.6	55.5	3.6
117	1.000	7.5	164.0	37.5	99.7	55.7	3.6
118	1.000	7.5	163.6	37.4	99.7	55.6	3.6
119	1.000	7.5	164.4	37.5	99.8	55.7	3.6
120	1.000	7.5	164.3	37.5	99.8	55.7	3.6
121	1.000	7.5	165.3	37.6	99.9	55.9	3.6
122	1.000	7.5	165.8	37.7	100.0	55.9	3.6
123	1.000	7.5	167.4	37.8	100.2	56.1	3.7
124	1.000	7.5	169.3	38.0	100.5	56.4	3.7
125	1.000	7.5	170.6	38.2	100.6	56.6	3.7
126	1.000	7.5	170.8	38.2	100.6	56.6	3.7
127	1.000	7.5	170.5	38.2	100.6	56.5	3.7
128	1.000	7.5	170.9	38.2	100.7	56.6	3.7
129	1.000	7.5	170.9	38.2	100.7	56.6	3.7
130	1.000	7.5	168.7	38.0	100.4	56.3	3.7
131	1.000	7.5	169.6	38.1	100.5	56.4	3.7
132	1.000	7.5	169.1	38.0	100.4	56.4	3.7
133	1.000	7.5	168.5	37.9	100.3	56.3	3.7
134	1.000	7.5	167.3	37.8	100.2	56.1	3.7

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 135	1.000	7.5	166.3	37.7	100.1	56.0	3.7
136	1.000	7.5	166.1	37.7	100.0	56.0	3.6
137	1.000	7.5	167.1	37.8	100.2	56.1	3.7
138	1.000	7.5	165.6	37.6	100.0	55.9	3.6
139	1.000	7.5	166.4	37.7	100.1	56.0	3.7
140	1.000	7.5	166.3	37.7	100.1	56.0	3.7
141	1.000	7.5	165.6	37.6	100.0	55.9	3.6
142	1.000	7.5	164.9	37.6	99.9	55.8	3.6
143	1.000	7.5	165.2	37.6	99.9	55.8	3.6
144	1.000	7.5	166.9	37.8	100.1	56.1	3.7
145	1.000	7.5	168.7	38.0	100.4	56.3	3.7
146	1.000	7.5	171.2	38.2	100.7	56.6	3.7
147	1.000	7.5	170.3	38.1	100.6	56.5	3.7
148	1.000	7.5	171.0	38.2	100.7	56.6	3.7
149	1.000	7.5	171.8	38.3	100.8	56.7	3.7
150	1.000	7.5	172.4	38.3	100.9	56.8	3.7
151	1.000	7.5	170.9	38.2	100.7	56.6	3.7
152	1.000	7.5	169.2	38.0	100.4	56.4	3.7
153	1.000	7.5	169.4	38.0	100.5	56.4	3.7
154	1.000	7.5	173.1	38.4	101.0	56.9	3.7
155	1.000	7.5	175.0	38.6	101.2	57.1	3.7
156	1.000	7.5	174.3	38.5	101.1	57.0	3.7
157	1.000	7.5	174.1	38.5	101.1	57.0	3.7
158	1.000	7.5	174.3	38.5	101.1	57.0	3.7
159	1.000	7.5	173.4	38.4	101.0	56.9	3.7
160	1.000	7.5	173.5	38.4	101.0	56.9	3.7
161	0.998	7.5	172.2	38.3	100.8	56.7	3.7
162	0.996	7.4	171.4	38.2	100.6	56.6	3.7
163	0.994	7.4	170.8	38.1	100.5	56.4	3.7
164	0.992	7.4	169.4	37.9	100.2	56.2	3.7
165	0.990	7.4	168.6	37.8	100.0	56.1	3.7
166	0.988	7.3	169.0	37.8	100.0	56.1	3.7
167	0.986	7.3	171.6	38.0	100.3	56.4	3.7
168	0.984	7.3	173.1	38.1	100.4	56.5	3.7
169	0.982	7.2	171.2	37.9	100.1	56.2	3.7
170	0.980	7.2	171.3	37.9	100.0	56.2	3.7
171	0.977	7.2	173.8	38.1	100.3	56.4	3.7
172	0.974	7.1	175.0	38.2	100.3	56.5	3.7
173	0.971	7.1	175.7	38.2	100.3	56.5	3.7
174	0.968	7.0	174.4	38.0	100.1	56.3	3.7
175	0.965	7.0	173.0	37.8	99.8	56.0	3.6
176	0.962	6.9	171.7	37.6	99.5	55.8	3.6
177	0.959	6.9	171.1	37.5	99.3	55.7	3.6
178	0.956	6.9	171.7	37.5	99.3	55.7	3.6
179	0.953	6.8	171.8	37.5	99.2	55.6	3.6

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 180	0.950	6.8	174.0	37.7	99.4	55.8	3.6
181	0.938	6.6	174.6	37.5	99.1	55.6	3.6
182	0.925	6.4	173.2	37.1	98.5	55.1	3.5
183	0.913	6.3	176.0	37.2	98.4	55.1	3.5
184	0.901	6.1	176.7	37.0	98.1	54.9	3.5
185	0.889	5.9	175.9	36.7	97.5	54.5	3.5
186	0.876	5.8	174.1	36.3	96.9	54.0	3.4
187	0.864	5.6	172.4	35.9	96.2	53.4	3.4
188	0.852	5.4	173.5	35.8	95.9	53.2	3.4
189	0.839	5.3	174.0	35.6	95.5	53.0	3.3
190	0.827	5.1	173.2	35.3	95.0	52.5	3.3
191	0.810	4.9	175.9	35.2	94.7	52.4	3.3
192	0.793	4.7	176.9	34.9	94.2	52.1	3.2
193	0.776	4.5	178.2	34.7	93.7	51.7	3.2
194	0.759	4.3	178.7	34.4	93.1	51.3	3.2
195	0.743	4.1	176.1	33.8	92.1	50.5	3.1
196	0.726	3.9	174.8	33.3	91.3	49.8	3.0
197	0.709	3.8	174.9	32.9	90.6	49.3	3.0
198	0.692	3.6	175.1	32.5	89.9	48.8	2.9
199	0.675	3.4	174.6	32.1	89.2	48.1	2.9
200	0.658	3.2	174.2	31.6	88.4	47.5	2.8
201	0.645	3.1	172.5	31.2	87.6	46.9	2.8
202	0.631	3.0	172.5	30.8	87.0	46.4	2.8
203	0.618	2.9	170.0	30.3	86.0	45.7	2.7
204	0.604	2.7	170.2	30.0	85.4	45.2	2.7
205	0.591	2.6	167.1	29.5	84.4	44.4	2.6
206	0.578	2.5	166.1	29.1	83.6	43.8	2.6
207	0.564	2.4	166.4	28.8	83.0	43.4	2.5
208	0.551	2.3	167.0	28.5	82.4	43.0	2.5
209	0.537	2.2	167.6	28.2	81.8	42.6	2.4
210	0.524	2.1	169.1	28.0	81.3	42.3	2.4
211	0.513	2.0	170.7	27.9	80.9	42.0	2.4
212	0.503	1.9	172.1	27.7	80.6	41.8	2.4
213	0.492	1.8	171.5	27.4	79.9	41.3	2.3
214	0.481	1.7	169.3	27.0	79.0	40.7	2.3
215	0.471	1.7	168.7	26.7	78.3	40.2	2.2
216	0.460	1.6	168.2	26.4	77.6	39.7	2.2
217	0.449	1.5	167.6	26.1	76.8	39.2	2.2
218	0.438	1.4	166.8	25.7	76.1	38.7	2.1
219	0.428	1.4	167.1	25.5	75.5	38.3	2.1
220	0.417	1.3	168.0	25.2	74.9	37.9	2.0
221	0.408	1.2	167.1	24.9	74.2	37.4	2.0
222	0.399	1.2	165.2	24.6	73.3	36.9	2.0
223	0.390	1.1	165.4	24.3	72.7	36.5	1.9
224	0.381	1.1	163.9	24.0	71.9	35.9	1.9

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 225	0.372	1.0	163.2	23.7	71.2	35.4	1.9
226	0.364	1.0	161.6	23.3	70.4	34.9	1.8
227	0.356	1.0	159.8	23.0	69.5	34.3	1.8
228	0.348	0.9	158.8	22.7	68.8	33.8	1.8
229	0.340	0.9	158.2	22.4	68.0	33.4	1.7
230	0.332	0.8	157.6	22.1	67.3	32.9	1.7
231	0.325	0.8	159.3	22.0	67.0	32.7	1.7
232	0.318	0.8	157.5	21.7	66.2	32.2	1.6
233	0.312	0.7	155.7	21.4	65.4	31.7	1.6
234	0.305	0.7	154.8	21.1	64.6	31.2	1.6
235	0.298	0.7	152.7	20.7	63.7	30.6	1.6
236	0.291	0.6	150.0	20.3	62.7	30.0	1.6
237	0.284	0.6	148.5	20.0	61.9	29.5	1.6
238	0.278	0.6	147.8	19.7	61.2	29.1	1.6
239	0.271	0.5	145.8	19.3	60.3	28.5	1.6
240	0.264	0.5	144.9	19.0	59.6	28.1	1.6
241	0.259	0.5	143.7	18.7	58.9	27.7	1.6
242	0.253	0.5	143.3	18.5	58.3	27.3	1.5
243	0.248	0.5	144.2	18.4	58.0	27.1	1.5
244	0.242	0.4	145.6	18.3	57.7	27.0	1.5
245	0.237	0.4	147.7	18.2	57.4	26.9	1.4
246	0.232	0.4	150.3	18.1	57.3	26.8	1.4
247	0.226	0.4	152.2	18.0	57.0	26.7	1.4
248	0.221	0.4	154.0	17.9	56.7	26.6	1.3
249	0.215	0.3	154.9	17.8	56.2	26.3	1.3
250	0.210	0.3	156.6	17.6	55.9	26.2	1.3
251	0.208	0.3	156.6	17.5	55.6	26.0	1.3
252	0.205	0.3	157.6	17.5	55.5	25.9	1.3
253	0.203	0.3	161.7	17.6	55.7	26.1	1.2
254	0.200	0.3	166.9	17.8	56.1	26.4	1.2
255	0.198	0.3	167.0	17.7	55.8	26.3	1.2
256	0.195	0.3	164.3	17.4	55.2	25.9	1.2
257	0.193	0.3	162.2	17.2	54.6	25.5	1.2
258	0.190	0.3	158.3	16.8	53.8	25.1	1.2
259	0.188	0.3	155.9	16.5	53.2	24.7	1.1
260	0.185	0.3	155.3	16.4	52.8	24.5	1.1
261	0.184	0.3	154.4	16.3	52.6	24.4	1.1
262	0.184	0.3	152.5	16.1	52.3	24.1	1.1
263	0.183	0.3	152.3	16.1	52.1	24.1	1.1
264	0.182	0.2	153.3	16.1	52.2	24.1	1.1
265	0.182	0.2	154.1	16.1	52.2	24.1	1.1
266	0.181	0.2	154.9	16.1	52.2	24.2	1.1
267	0.180	0.2	156.0	16.2	52.3	24.2	1.1
268	0.179	0.2	157.8	16.2	52.4	24.3	1.1
269	0.179	0.2	159.4	16.3	52.6	24.4	1.1

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 270	0.178	0.2	161.0	16.4	52.7	24.5	1.1
271	0.178	0.2	162.1	16.4	52.8	24.6	1.1
272	0.178	0.2	160.2	16.3	52.6	24.4	1.1
273	0.178	0.2	159.6	16.3	52.5	24.4	1.1
274	0.178	0.2	158.7	16.2	52.4	24.3	1.1
275	0.178	0.2	158.2	16.2	52.3	24.3	1.1
276	0.178	0.2	159.4	16.3	52.5	24.4	1.1
277	0.178	0.2	159.8	16.3	52.5	24.4	1.1
278	0.178	0.2	158.5	16.2	52.4	24.3	1.1
279	0.178	0.2	157.1	16.1	52.2	24.2	1.1
280	0.178	0.2	156.3	16.1	52.1	24.1	1.1
281	0.178	0.2	155.8	16.0	52.0	24.1	1.1
282	0.178	0.2	155.6	16.0	52.0	24.0	1.1
283	0.178	0.2	156.2	16.1	52.1	24.1	1.1
284	0.178	0.2	157.1	16.1	52.2	24.2	1.1
285	0.178	0.2	157.3	16.1	52.2	24.2	1.1
286	0.178	0.2	157.1	16.1	52.2	24.2	1.1
287	0.178	0.2	157.1	16.1	52.2	24.2	1.1
288	0.178	0.2	155.6	16.0	52.0	24.0	1.1
289	0.178	0.2	152.7	15.8	51.6	23.8	1.1
290	0.178	0.2	151.5	15.8	51.4	23.7	1.1
291	0.183	0.3	151.3	16.0	52.0	24.0	1.1
292	0.187	0.3	150.9	16.2	52.5	24.2	1.1
293	0.192	0.3	149.7	16.3	52.9	24.4	1.2
294	0.196	0.3	147.2	16.4	53.1	24.5	1.2
295	0.201	0.3	146.2	16.5	53.4	24.7	1.2
296	0.206	0.3	144.9	16.6	53.8	24.8	1.3
297	0.210	0.3	143.9	16.8	54.1	25.0	1.3
298	0.215	0.3	144.3	17.0	54.7	25.3	1.3
299	0.219	0.4	143.6	17.2	55.1	25.5	1.3
300	0.224	0.4	143.3	17.3	55.5	25.8	1.4
301	0.230	0.4	143.6	17.6	56.1	26.1	1.4
302	0.235	0.4	141.8	17.7	56.4	26.2	1.4
303	0.241	0.4	140.3	17.8	56.7	26.4	1.5
304	0.246	0.5	139.9	18.0	57.2	26.7	1.5
305	0.252	0.5	139.4	18.2	57.7	26.9	1.5
306	0.258	0.5	139.3	18.4	58.2	27.2	1.6
307	0.263	0.5	140.7	18.7	58.9	27.6	1.6
308	0.269	0.5	141.0	18.9	59.4	27.9	1.6
309	0.274	0.6	140.6	19.1	59.8	28.2	1.6
310	0.280	0.6	140.2	19.3	60.3	28.4	1.6
311	0.287	0.6	140.2	19.5	60.8	28.7	1.6
312	0.293	0.6	141.3	19.8	61.6	29.2	1.6
313	0.300	0.7	142.8	20.1	62.4	29.7	1.6
314	0.306	0.7	142.9	20.3	62.9	30.0	1.6

WRBK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	40 dBu F(50,10) (km)	54 dBu F(50,10) (km)	100 dBu F(50,10) (km)
* 315	0.313	0.7	141.7	20.5	63.3	30.2	1.6
316	0.320	0.8	140.7	20.6	63.7	30.4	1.6
317	0.328	0.8	141.3	20.9	64.4	30.8	1.6
318	0.335	0.8	143.0	21.2	65.3	31.4	1.7
319	0.343	0.9	143.4	21.5	65.9	31.8	1.7
320	0.350	0.9	143.1	21.7	66.4	32.1	1.7
321	0.359	1.0	143.5	22.0	67.2	32.6	1.7
322	0.368	1.0	144.3	22.3	68.0	33.1	1.8
323	0.377	1.1	145.2	22.6	68.8	33.6	1.8
324	0.386	1.1	145.7	22.9	69.5	34.1	1.9
325	0.395	1.2	147.5	23.2	70.4	34.7	1.9
326	0.404	1.2	147.8	23.5	71.1	35.2	1.9
327	0.413	1.3	147.9	23.7	71.7	35.6	2.0
328	0.422	1.3	148.8	24.0	72.4	36.0	2.0
329	0.431	1.4	148.8	24.3	73.0	36.4	2.0
330	0.440	1.5	148.3	24.5	73.5	36.7	2.0
331	0.451	1.5	146.2	24.6	73.8	36.9	2.1
332	0.462	1.6	145.5	24.8	74.4	37.3	2.1
333	0.473	1.7	145.7	25.1	75.1	37.7	2.1
334	0.484	1.8	145.5	25.3	75.7	38.1	2.2
335	0.495	1.8	144.4	25.5	76.1	38.4	2.2
336	0.506	1.9	143.4	25.6	76.6	38.7	2.2
337	0.517	2.0	143.4	25.9	77.2	39.1	2.3
338	0.528	2.1	144.5	26.2	78.0	39.6	2.3
339	0.539	2.2	144.8	26.5	78.6	40.0	2.3
340	0.550	2.3	146.0	26.8	79.4	40.6	2.4
341	0.564	2.4	147.7	27.3	80.3	41.3	2.4
342	0.578	2.5	147.0	27.5	80.9	41.6	2.5
343	0.592	2.6	146.9	27.8	81.6	42.1	2.5
344	0.606	2.8	147.3	28.1	82.3	42.6	2.5
345	0.620	2.9	148.9	28.5	83.2	43.2	2.6
346	0.634	3.0	148.9	28.8	83.9	43.7	2.6
347	0.648	3.1	150.6	29.3	84.7	44.3	2.7
348	0.662	3.3	150.4	29.5	85.3	44.8	2.7
349	0.676	3.4	150.5	29.8	86.0	45.2	2.7
350	0.690	3.6	151.3	30.2	86.7	45.7	2.8
351	0.706	3.7	150.0	30.4	87.1	46.0	2.8
352	0.721	3.9	149.2	30.6	87.7	46.4	2.8
353	0.737	4.1	149.0	30.9	88.3	46.8	2.9
354	0.752	4.2	148.7	31.2	88.8	47.2	2.9
355	0.768	4.4	148.1	31.4	89.4	47.6	2.9
356	0.783	4.6	147.0	31.6	89.8	47.9	3.0
357	0.799	4.8	145.8	31.8	90.2	48.2	3.0
358	0.814	5.0	144.2	31.9	90.6	48.4	3.0
359	0.830	5.2	145.5	32.4	91.3	49.0	3.1

* Radial included in HAAT calculation.

WFAE Contour Tabulation

Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	100 dBu F(50,10) (km)
190	1.000	100.0	332.3	74.8	10.6
191	0.983	96.6	332.7	74.5	10.5
192	0.966	93.3	332.1	74.1	10.4
193	0.949	90.0	331.0	73.6	10.3
194	0.932	86.8	328.5	73.1	10.2
195	0.915	83.6	328.6	72.7	10.1
196	0.897	80.5	329.0	72.3	10.0
197	0.880	77.5	327.5	71.8	9.9
198	0.863	74.5	326.7	71.4	9.8
199	0.846	71.6	325.8	70.9	9.6
200	0.829	68.7	323.9	70.4	9.5
201	0.811	65.7	323.5	69.9	9.4
202	0.792	62.8	323.2	69.4	9.3
203	0.774	59.9	323.0	68.9	9.1
204	0.767	58.8	322.2	68.7	9.1
205	0.774	59.9	320.7	68.7	9.1
206	0.793	62.9	318.5	69.1	9.2
207	0.812	65.9	316.7	69.4	9.3
208	0.830	69.0	315.3	69.8	9.4
209	0.849	72.1	315.2	70.2	9.5
210	0.868	75.3	315.9	70.7	9.6
211	0.881	77.7	315.1	71.0	9.7
212	0.894	80.0	314.0	71.2	9.8
213	0.908	82.4	312.8	71.4	9.8
214	0.921	84.8	313.2	71.7	9.9
215	0.934	87.2	312.4	71.9	10.0
216	0.947	89.7	313.0	72.3	10.0
217	0.960	92.2	312.4	72.5	10.1
218	0.974	94.8	311.5	72.7	10.2
219	0.987	97.4	312.1	73.0	10.2
220	1.000	100.0	311.9	73.3	10.3

WEPR Contour Tabulation

Bearing (degrees)	HAAT (meters)	60 dBu F(50,50) (km)	54 dBu F(50,10) (km)
90	357.8	75.0	110.1
91	360.4	75.2	110.5
92	362.7	75.4	110.9
93	365.0	75.5	111.2
94	367.0	75.7	111.5
95	368.7	75.8	111.8
96	369.5	75.9	111.9
97	370.2	75.9	112.0
98	370.9	76.0	112.1
99	374.5	76.2	112.6
100	379.3	76.6	113.2
101	382.3	76.8	113.6
102	382.3	76.8	113.6
103	382.2	76.8	113.5
104	383.4	76.9	113.7
105	385.0	77.0	113.9
106	385.3	77.0	113.9
107	385.1	77.0	113.9
108	384.5	76.9	113.8
109	383.6	76.9	113.7
110	382.7	76.8	113.6
111	381.0	76.7	113.4
112	378.7	76.5	113.1
113	377.5	76.4	113.0
114	374.8	76.2	112.6
115	372.8	76.1	112.4
116	372.2	76.0	112.3
117	372.1	76.0	112.3
118	372.8	76.1	112.4
119	374.1	76.2	112.5
120	375.4	76.3	112.7

WMHK Contour Tabulation

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Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	100 dBu F(50,10) (km)
315	0.851	72.4	421.7	78.0	10.8
316	0.840	70.5	424.0	77.9	10.8
317	0.828	68.6	424.5	77.7	10.7
318	0.817	66.7	423.9	77.3	10.6
319	0.805	64.9	422.6	76.9	10.5
320	0.794	63.0	421.3	76.5	10.4
321	0.778	60.5	420.7	76.0	10.3
322	0.761	58.0	419.2	75.5	10.1
323	0.745	55.5	417.9	74.9	10.0
324	0.729	53.1	418.0	74.5	9.9
325	0.713	50.8	418.6	74.0	9.7
326	0.696	48.5	420.1	73.6	9.6
327	0.680	46.2	420.4	73.1	9.5
328	0.664	44.0	421.7	72.7	9.4
329	0.647	41.9	424.1	72.3	9.2
330	0.631	39.8	425.7	71.9	9.1
331	0.618	38.2	426.6	71.5	9.0
332	0.605	36.6	426.6	71.1	8.8
333	0.592	35.0	425.8	70.5	8.7
334	0.579	33.5	425.2	70.0	8.6
335	0.566	32.0	424.7	69.5	8.4
336	0.553	30.6	426.6	69.1	8.3
337	0.540	29.2	424.8	68.5	8.2
338	0.527	27.8	422.5	67.8	8.0
339	0.514	26.4	421.9	67.2	7.8
340	0.501	25.1	421.8	66.7	7.7
341	0.491	24.1	420.2	66.2	7.6
342	0.480	23.1	419.5	65.7	7.4
343	0.470	22.1	419.7	65.2	7.3
344	0.460	21.1	420.8	64.9	7.2
345	0.450	20.2	420.4	64.4	7.1
346	0.439	19.3	421.2	63.9	6.9
347	0.429	18.4	422.2	63.5	6.8
348	0.419	17.5	422.5	63.0	6.7
349	0.408	16.7	423.0	62.6	6.6

WMHK Contour Tabulation

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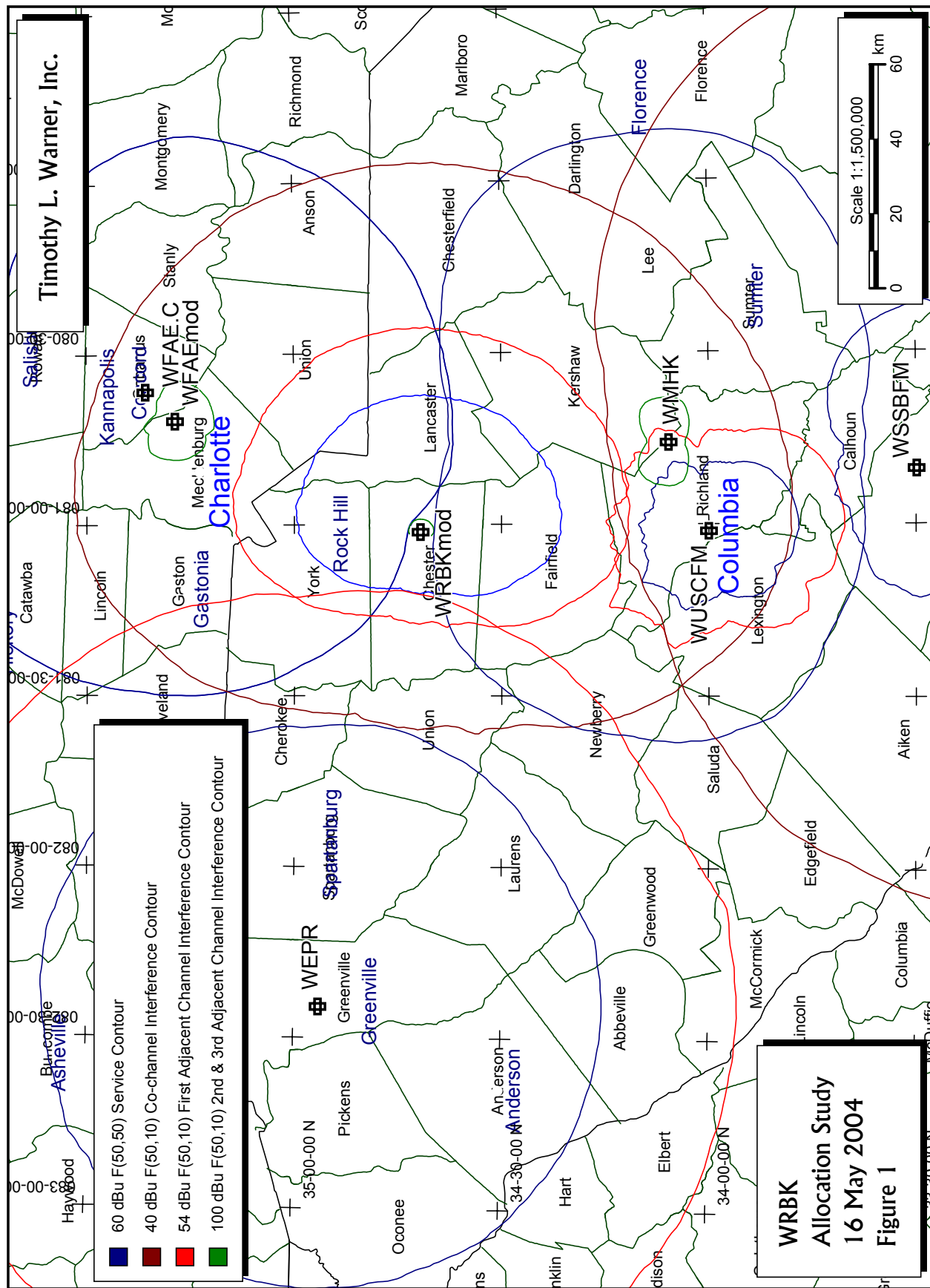
Bearing (degrees)	Relative Field	ERP (kW)	HAAT (meters)	60 dBu F(50,50) (km)	100 dBu F(50,10) (km)
350	0.398	15.8	424.6	62.1	6.5
351	0.391	15.3	423.9	61.8	6.4
352	0.384	14.8	423.9	61.4	6.3
353	0.378	14.3	424.2	61.1	6.2
354	0.371	13.7	424.6	60.7	6.2
355	0.364	13.2	425.0	60.4	6.1
356	0.357	12.8	424.3	60.0	6.0
357	0.350	12.3	423.7	59.6	5.9
358	0.344	11.8	423.3	59.2	5.8
359	0.337	11.3	423.4	58.8	5.8
0	0.330	10.9	425.6	58.5	5.7
1	0.333	11.1	427.9	58.8	5.7
2	0.335	11.2	427.7	58.9	5.8
3	0.338	11.4	426.7	59.0	5.8
4	0.340	11.6	425.2	59.1	5.8
5	0.343	11.7	424.0	59.1	5.8
6	0.345	11.9	423.3	59.2	5.9
7	0.348	12.1	422.3	59.3	5.9
8	0.350	12.3	422.5	59.5	5.9
9	0.353	12.4	423.9	59.7	5.9
10	0.355	12.6	423.8	59.8	6.0
11	0.364	13.3	423.8	60.3	6.1
12	0.373	13.9	424.7	60.9	6.2
13	0.383	14.6	425.7	61.4	6.3
14	0.392	15.4	426.3	61.9	6.4
15	0.401	16.1	427.9	62.5	6.5

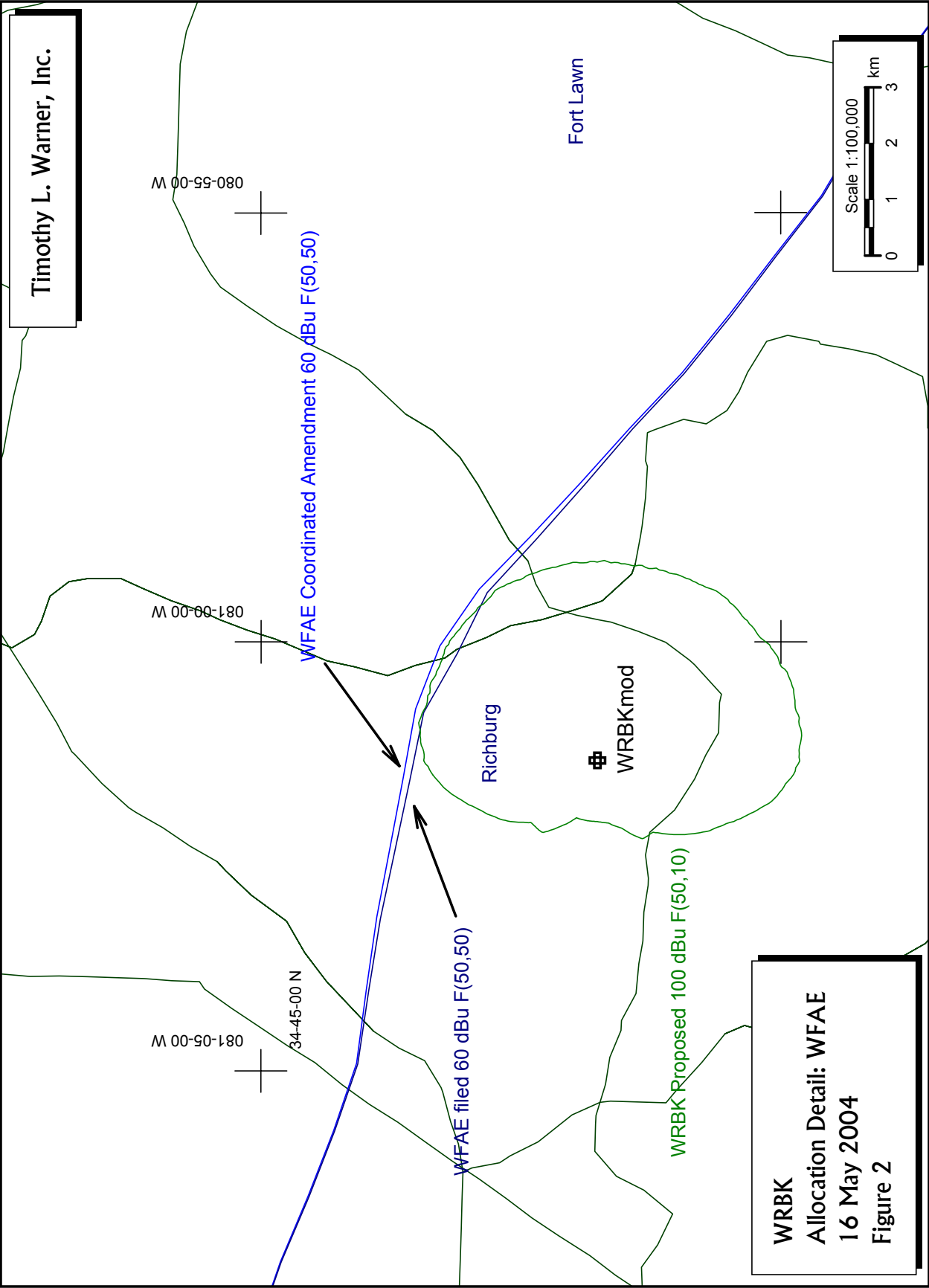
WRBK
Richburg Educational Broadcasters, Inc.
Richburg, South Carolina
Allocation Table

WRBK Allocation Study										
REFERENCE		CH# 212C3- 90.3 MHz, Pwr= 7.5 kW, HAAT=164.0M, COR= 311 M							DISPLAY DATES	
34 41 46 N		Average Protected F(50-50)= 37.5 km							DATA 05-14-04	
81 01 23 W		Ave. F(50-10) 40 dBu= 99.7 54 dBu= 55.7 80 dBu= 12.3 100 dBu= 3.6							SEARCH 05-16-04	
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*
CITY		STATE	<-	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap	in km)
212C3	WRBK	LIC DEX	0.0	0.00	34 41 46	3.33	311	31.5	-120.26<	-121.60*<
Richburg		SC	180.0	BLED20020909AAJ	81 01 23	174	88.7	Richburg Educational Broad		
212C1	WSSBFM	LIC DEN	172.8	133.88	33 29 55	7.54	128	38.0	15.02	11.91
Orangeburg		SC	352.8	BLED19850212KW	80 50 30	51	80.8	South Carolina State Unive		
211C	WEPR	LIC CN	282.5	129.81	34 56 26	85	669	16.1	0.20	28.94
Greenville		SC	102.5	BLED19870508KA	82 24 38	382	113.5	South Carolina Educational		
209C	WMHK	LIC DCN	160.3	70.60	34 05 49	24.787	507	38.4	24.50	0.31
Columbia		SC	340.3	BLED19940323KA	80 45 51	422	7.7	Columbia Bible College Bro		
212C3	WFHE	LIC DCN	343.5	133.60	35 50 59	3.442	498	27.7	17.51	20.74
Hickory		NC	163.5	BLED19951010KI	81 26 40	168	88.4	University Radio Foundation		
214C0	WFAE.A	APP DCX	24.3	72.06	35 17 14	60.84	544	33.6	29.26	-0.16<
Charlotte		NC	204.3	BMPED20040206AAR	80 41 45	322	9.2	University Radio Foundation		
This proposal is being modified with a new directional antenna pattern as shown below.										
214C0	WFAEm	MOD DCX	24.3	72.06	35 17 14	59.152	544	33.6	29.33	0.13
Charlotte		NC	204.3	BMPED20040206AAR	80 41 45	322	9.1	University Radio Foundation		
This facility is the subject of a coordinated amendment filed simultaneously with the instant application.										
213A	WUSCFM	LIC CN	179.9	77.15	34 00 02	2.5	148	36.2	14.73	5.47
Columbia		SC	359.9	BLED19870817KD	81 01 19	58	26.2	The University Of South Ca		
214C1	WFAE	LIC DCN	26.3	68.86	35 15 06	82.504	428	33.6	27.02	1.83
Charlotte		NC	206.3	BLED19900627KA	80 41 12	220	8.2	University Radio Foundation		
214C0	WFAE.C	CP DCX	26.9	82.56	35 21 30	100	559	33.5	38.02	2.53
Charlotte		NC	206.9	BPED19960429IC	80 36 37	360	11.1	University Radio Foundation		
212A	WBFY	LIC DVX	68.6	142.05	35 09 13	3.5	232	36.4	31.29	21.18
Pinehurst		NC	248.6	BLED20020522AAE	79 34 16	80	74.4	American Family Association		
212A	WBFY.C	CP VN	68.6	142.05	35 09 13	3.5	232	36.4	31.29	21.18
Pinehurst		NC	248.6	BMPED20000214AAZ	79 34 16	80	74.4	American Family Association		
210C1	WDAV	LIC DCN	11.2	85.11	35 26 54	34.144	474	33.0	45.40	25.00
Davidson		NC	191.2	BLED19950313KA	80 50 23	238	6.7	The Trustees Of Davidson C		
213C3	980224	APP DCN	118.2	123.89	34 09 50	20.382	108	37.4	38.20	38.44
Florence		SC	298.2	BPED19980224MB	79 50 17	61	48.3	Francis Marion University		
213C3	970220	APP DVN	104.1	135.82	34 23 26	2.778	157	36.6	57.55	53.72
Dillon		SC	284.1	BPED19970220MB	79 35 25	139	41.6	American Family Association		
265A	WABZFM	CP ZCX	29.6	54.80	35 07 29	6	298	33.5	12.0R	42.8M
Indian Trail		NC	209.6	BPH20020116AAG	80 43 30	95	29.5	Susquehanna Radio Corp.		

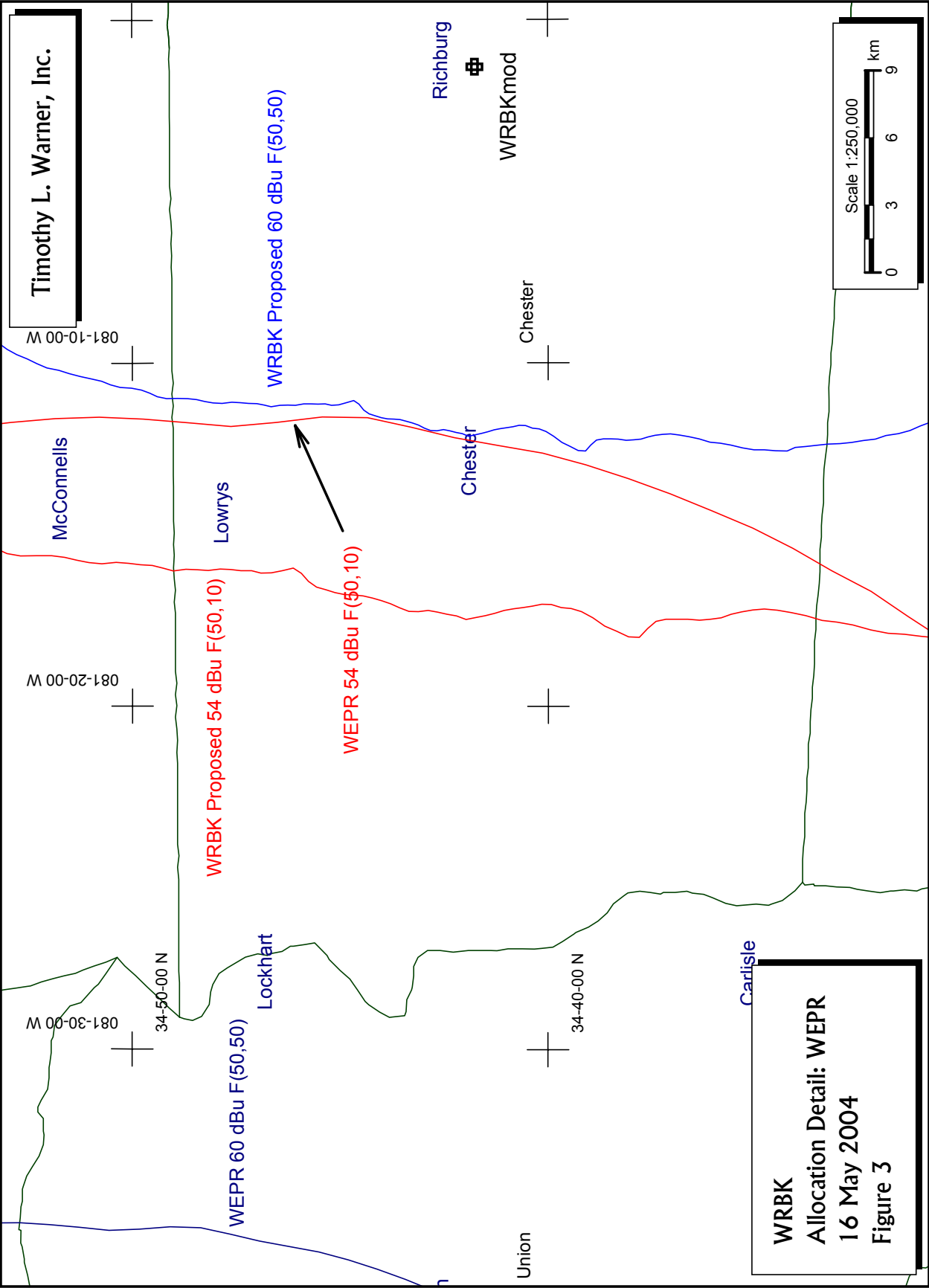
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)
213C3 Marion Vertical Polarization Only	980225	APP VN SC	106.5 286.5	142.02 BPED19980225MF	34 19 31 79 32 34	20 57	76 46.7	36.8 Mary V. Harris Foundation	58.55	58.28
211C1 Conway	WHMCFM	LIC DEY SC	114.7 294.7	194.60 BLED19850215LP	33 57 05 79 06 31	15.894 212	235 70.9	37.3 South Carolina Educational	86.37	91.10
265A Indian Trail	ALLO	RSV NC	41.9 221.9	62.69 RM9503	35 06 53 80 33 44	6 1105	1303 91.7	34.8	12.0R	50.7M
212C3 Galax RCAGL appears to be incorrect for the RCAMSL	WOKG.C	CP CN VA	2.7 182.7	217.87 BPED19970625MD	36 39 27 80 54 22	2.7 183	927 86.9	31.5 Positive Alternative Radio	99.54	97.03
213C3 Winston-Salem	WSNC	LIC DCN NC	24.9 204.9	170.91 BLED19930218KA	36 05 24 80 13 20	1.407 70	319 24.8	33.7 Winston-Salem State Univer	112.33	103.17
266C0 Anderson	WROQ	LIC DCN SC	267.6 87.6	114.44 BLH19870204LD	34 38 51 82 16 13	76.414 302	541 82.4	16.2 Obc Broadcasting, Inc.	27.0R	87.4M
266C0 Anderson Coordinates updated from LIC record BLH870204LD	ALLO	USE SC	267.6 87.6	114.44	34 38 51 82 16 13	100 305	544 86.4	16.2	27.0R	87.4M
213A Boone	WASUFM	LIC C NC	340.6 160.6	178.77 BLED20000912AAR	36 12 48 81 41 10	0.22 37	1036 10.9	26.9 Appalachian State University	141.00	130.46
211C3 Greensboro	WNAA	LIC CN NC	36.0 216.0	191.45 BLED19850528KO	36 04 58 79 46 08	10 127	370 53.9	34.5 NC Agricultural & Technica	103.06	103.98
265A Albemarle Horizontally Polarized only	WABZFM	LIC HN NC	44.6 224.6	106.97 BLH3002	35 22 40 80 11 38	3 75	230 22.0	34.9 Susquehanna Radio Corp.	12.0R	95.0M
265A Albemarle Coordinates updated from LIC record BLH3002	ALLO	USE NC	44.6 224.6	106.97	35 22 40 80 11 38	6 389	544 58.9	34.9	12.0R	95.0M
213A Mars Hill	WVMHFM	LIC HN NC	312.6 132.6	187.06 BLED19831017AI	35 49 30 82 33 00	0.25 -85	725 10.1	19.7 Mars Hill College	157.19	150.89
213A Mars Hill	WVMHFM	CP CX NC	312.6 132.6	187.36 BPED20011126ABB	35 49 39 82 33 06	0.3 -86	709 10.6	19.7 Mars Hill College	157.02	150.85
213A Sanford	WDCC	LIC CN NC	62.7 242.7	191.82 BLED19820607AL	35 28 19 79 08 36	3 9	145 19.5	36.1 Central Carolina Community	136.18	124.62
212A Kingsport	WCSK	LIC CN TN	325.7 145.7	247.65 BLED19810803AJ	36 31 37 82 35 12	0.195 268	719 62.0	23.2 Kingsport City Schools Bd.	162.51	157.37
214C2 Augusta	WACGFM	LIC CN GA	207.8 27.8	161.88 BLED19890911KC	33 24 15 81 50 19	25 90	200 3.9	26.8 Georgia Public Telecommuni	131.25	122.22
06 Charlotte	WJBF	AP N NC	207.7 27.7	161.53 BLCT20040130AOR	33 24 20 81 50 01	100.0 495	563	116.5 Media General Broadcasting	To Grd B=	45.01

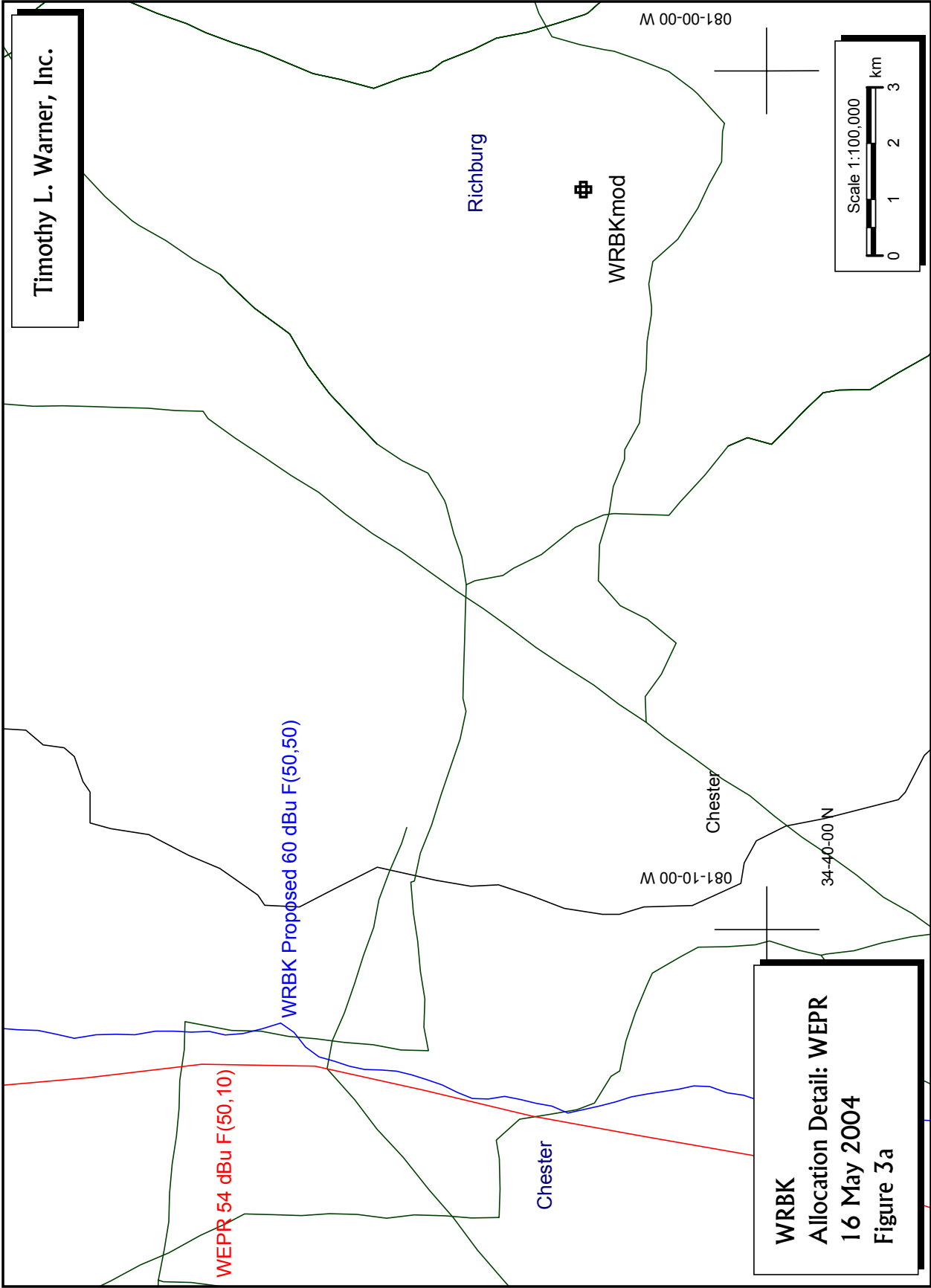
ERP and HAAT are on direct line to and from reference station.
 "*"Affixed to 'IN' or 'Out' values = site inside protected contour.
 "<" = Contour Overlap.

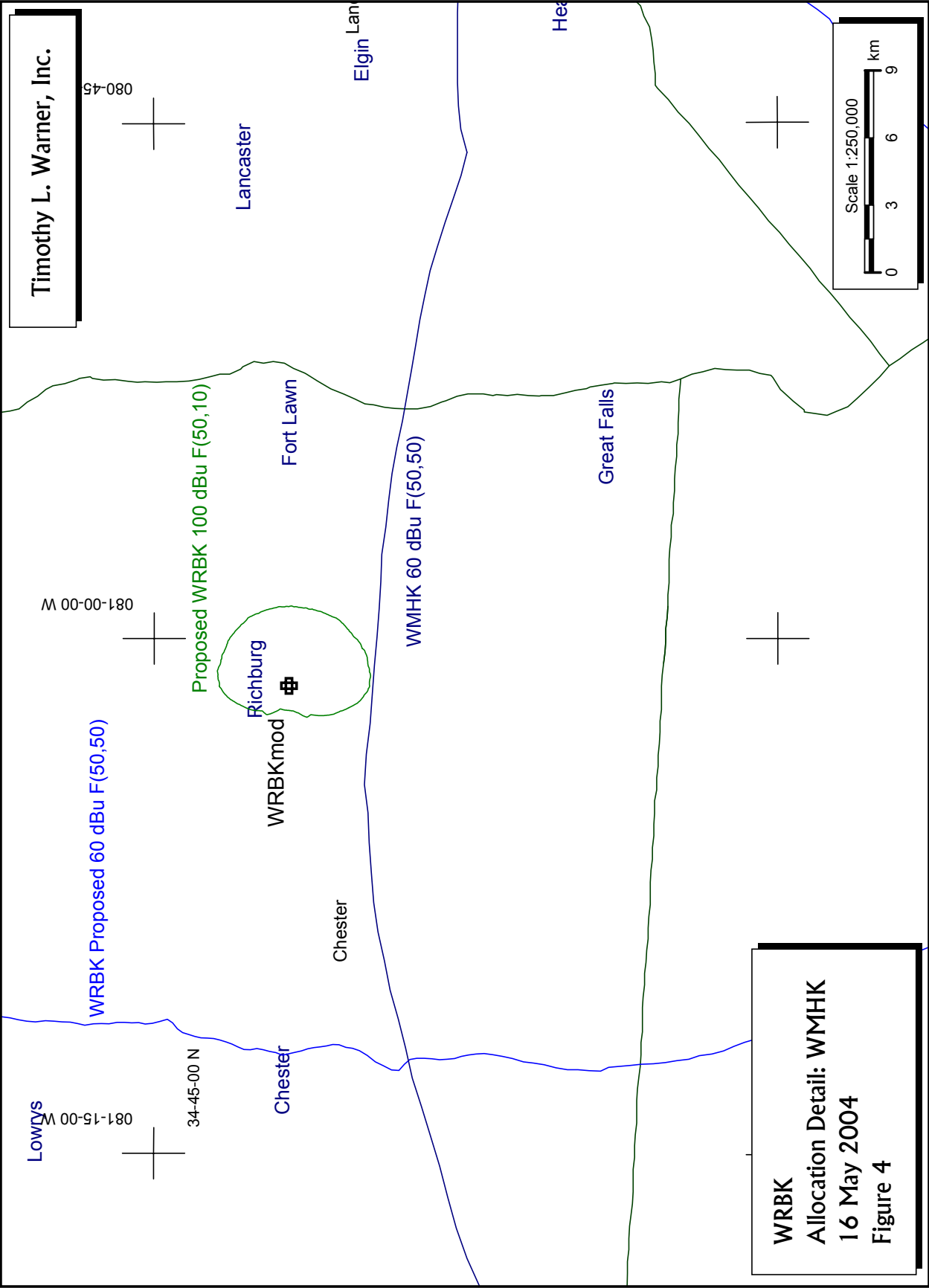


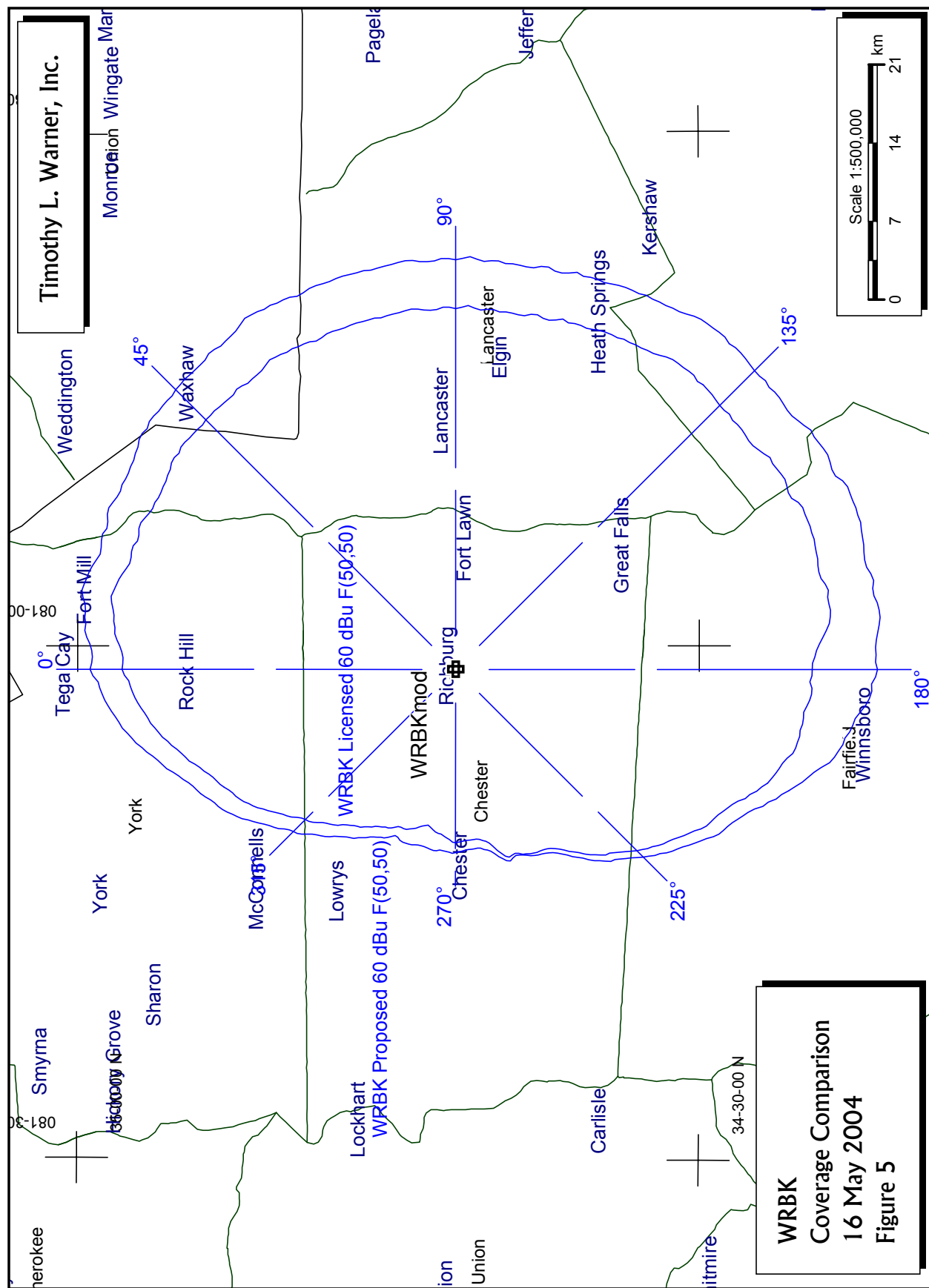


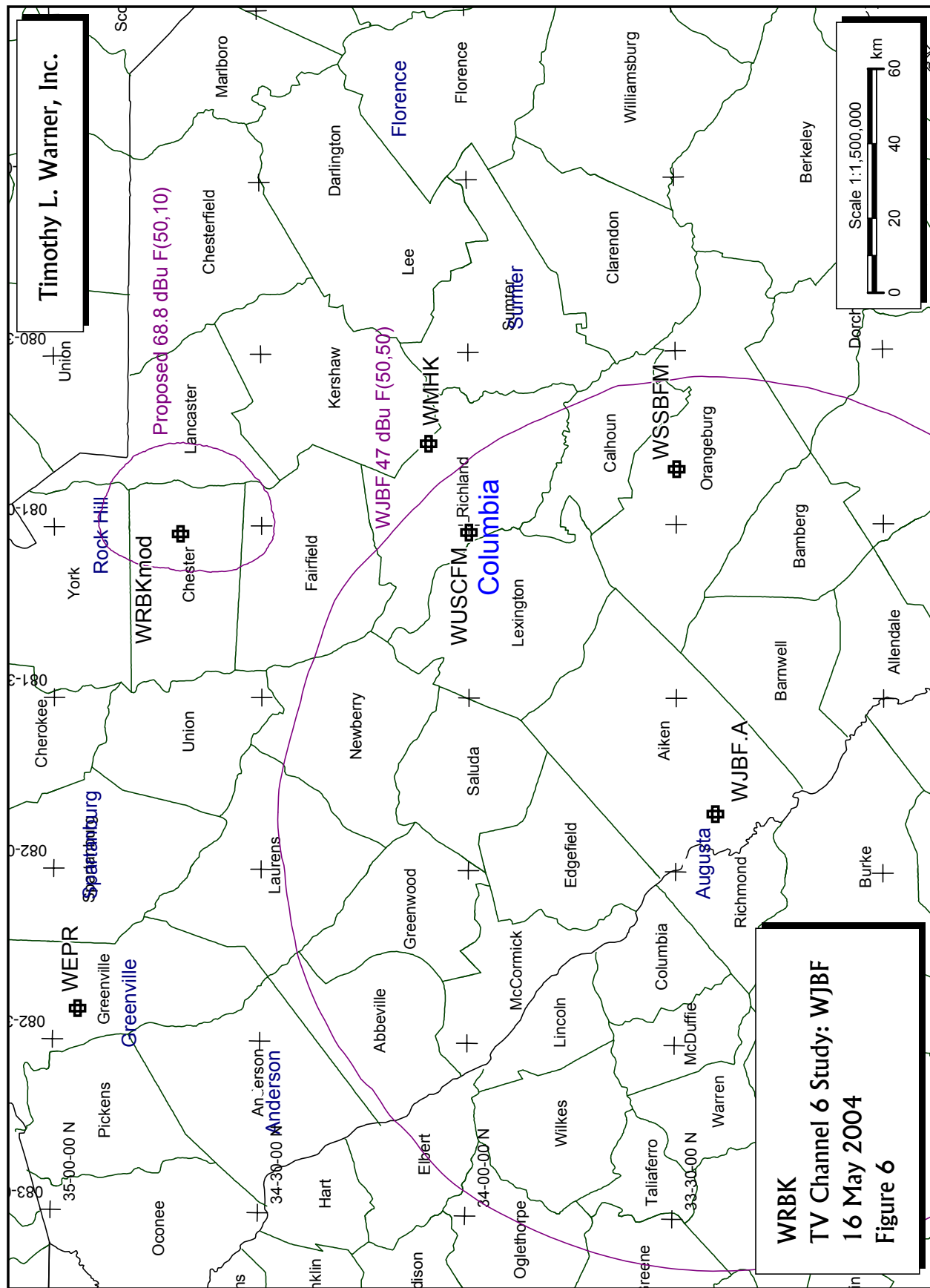
WRBK
Allocation Detail: WFAE
16 May 2004
Figure 2



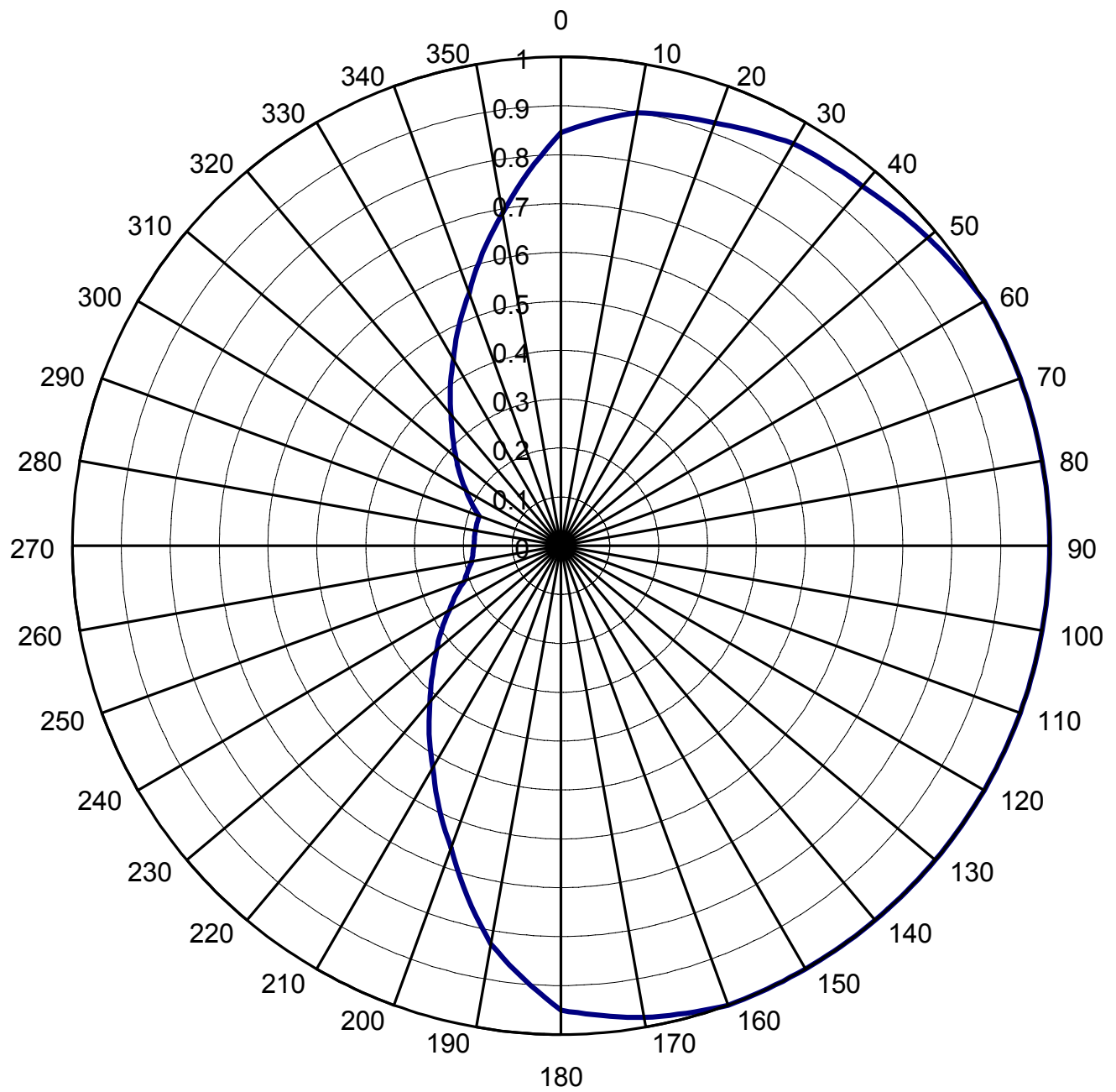








WRBK
Richburg Educational Broadcasters, Inc.
Richburg, South Carolina
Directional Antenna Horizontal Plane Relative Field Plot



WRBK
Richburg Educational Broadcasters, Inc.
Richburg, South Carolina
Directional Antenna Horizontal Plane Relative Field Tabulation

Bearing (degrees)	Relative Field		Bearing (degrees)	Relative Field
0	0.845		180	0.950
10	0.900		190	0.827
20	0.920		200	0.658
30	0.950		210	0.524
40	0.960		220	0.417
* 45	0.970		* 225	0.372
50	0.980		230	0.332
60	1.000		240	0.264
70	1.000		250	0.210
80	1.000		260	0.185
90	1.000		270	0.178
100	1.000		280	0.178
110	1.000		290	0.178
120	1.000		300	0.224
130	1.000		310	0.280
* 135	1.000		* 315	0.313
140	1.000		320	0.350
150	1.000		330	0.440
160	1.000		340	0.550
170	0.980		350	0.690

*Supplemental Bearings