TECHNICAL EXHIBIT
AMENDMENT TO
APPLICATION FOR CONSTRUCTION PERMIT
CLEAR CHANNEL BROADCASTING LICENSES, INC.
RADIO STATION WTKT
HARRISBURG, PENNSYLVANIA

February 24, 2004

1460 KHZ 2.4 KW-D; 4.2 W-N U DA-N

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Technical Narrative

The technical exhibit of which this narrative is part has been prepared on behalf of Clear Channel Broadcasting Licenses, Inc., licensee of AM broadcast station WTKT at Harrisburg, Pennsylvania. WKTK is licensed as a Class B station for operation fulltime on 1460 kilohertz with a power of 5.0 kilowatts, operating daytime with a non-directional antenna and nighttime with a directional antenna. By means of this present application, the licensee proposes to construct a new transmitter site to replace the licensed site from which the station was evicted. WTKT will continue to employ a nondirectional antenna during daytime hours and a directional antenna at night at the new site, but it will be necessary to reduce the daytime power to 2.4 kilowatts and the nighttime power to 4.2 kilowatts due to allocation constraints.

This exhibit serves to amend the original application for the proposed move, which has been assigned to File Number BP-20040109ACP by the FCC, to specify a slight change in tower height. The figures that have changed appear herein bearing the suffix “A”. For convenience and clarity, an entire replacement exhibit is being provided.

The proposal is classified as a minor change according to 47 CFR 73.3571(a)(2). As a Class B station operating on one of the channels listed in 73.26(a), the proposal satisfies 47 CFR 73.21(a)(2) which permits operation with a nominal power of not less than 0.25 kilowatt nor more than 50 kilowatts at any time. The proposal is acceptable for filing under the criteria set forth in 47 CFR 73.37.

The proposed facility will not have a significant environmental impact with regard to potential radio frequency electromagnetic field exposure to humans as defined by 47 CFR 1.1307(b). The Federal Aviation Administration has been notified of the proposal, as new tower construction is proposed.

Directional Antenna System

Three new towers will be employed for the proposed nighttime directional antenna pattern while the daytime nondirectional operation will use one of the three towers. The towers that are not used for nondirectional operation will be detuned. As shown on Figure 1A, the radiating elements will be 56.4-meter (185-foot) towers with overall heights of 57.9 meters (190 feet) above ground level. Figure 2 shows a plat of the transmitter site. A summary of specifications for the nighttime directional antenna array is included herein as Figure 3A.

The nighttime directional antenna pattern has been calculated in accordance with 47 CFR 73.150 assuming a one-ohm lumped loss resistance at the current loop of each tower in the array. The nighttime standard radiation

pattern is shown herein as Figure 4A and is tabulated in Figure 5A.

Waiver of Section 73.24(g)

The provisions of 47 CFR 73.24(g) require that the population within the 1,000 mV/m contour not exceed 1 percent of the population within the 25 mV/m groundwave contour. The proposed 1,000 mV/m nighttime contour encompasses 775 persons, or 1.1 percent of the 71,172 persons in the proposed 25 mV/m contour. As this exceeds the standard of 73.24(g), a waiver is respectfully requested.

The requirements of 73.24(g) date from a time before the massive shift of urban populations to suburban areas, when cities were generally well defined population centers surrounded by rural areas where radio stations were encouraged to construct their transmitter sites. Such is generally not the case today, as the areas surrounding large and medium size towns where transmitter sites must be located to provide satisfactory coverage are often densely populated.

In a number of past requests for waiver of 73.24(g), it has been noted that the vast majority of receivers suffer no degradation in reception with field strengths significantly higher than 1,000 mV/m. In fact, a field strength of 7,000 mV/m has been shown to be necessary to cause blanketing interference of any consequence. The population within the predicted daytime 7,000 mV/m contour is 0 persons. Based on the history of previous waiver requests that have been granted, the blanketing interference potential for WTKT is minimal.

The applicant recognizes the responsibility to correct blanketing problems, if any occur.

The population within the proposed daytime 1000 mV/m contour is 261 persons. As this is less than 300 persons, the requirements of 73.24(g) are met in the daytime case.

Daytime Coverage

The proposed WTKT daytime field strength contours are depicted on Figure 6A and the existing daytime field strength contours are shown on Figure 7. As indicated on Figure 6A, the proposed daytime 5 mV/m contour completely encompasses the city limits of Harrisburg. The Harrisburg city limits depicted were obtained from a map contained in the TIGER 2000 U.S. census files.

Daytime Allocation Study

A daytime allocation study was made utilizing FCC Figure M-3 as shown on sheet 1 of Figure 8A. Sheet 2 of Figure 8A shows, in detail, that the only station with which the proposed WTKT nondirectional antenna pattern will have prohibited overlap is co-channel station WEMR in Tunkhannock, Pennsylvania. With the reduction in daytime power necessary to avoid an increase in overlap of the WTKT 0.5 mV/M contour with the WEMR 0.025 mV/M coutour, there will be a reduction in the area over which the WTKT 0.025 mV/M contour overlaps the WEMR 0.5 mV/M contour. The daytime field strength contours were calculated in accordance with 47 CFR 73.183. Figure 9 is a tabulation of the data employed in the calculation of daytime contours. Based on this analysis, the proposed WTKT

facility will comply with all relevant allocation criteria.

City-of-License Coverage

The proposed WTKT daytime and nighttime field strength contours are depicted on Figures 6A and 10A, respectively. The proposed daytime 5 mV/m contour and the proposed nighttime 9.6 mV/m nighttime interference-free contour both completely encompass the city limits of Harrisburg.

Nighttime Allocation Study

The proposed WKTK facility will afford nighttime protection to all stations and international allotments operating on 1450 kHz, 1460 kHz, and 1470 kHz. Figure 12 contains pertinent calculation data to support a conclusion that this proposal comports with all nighttime interference protection requirements.

Waiver of Section 73.182(q)

As is the case with many fulltime stations that have occupied their channels for a number of years, the licensed WTKT nighttime facility produces skywave interference limits that enter into the 50-percent exclusion RSS values of several domestic stations. Six such instances are denoted on sheets 4 and 5 of Figure 12, the nighttime allocation study. Footnote 1 of Section 73.182(q) of the FCC's Rules requires that stations making facility changes reduce the radiation toward the other stations whose 50-percent exclusion RSS values they enter by either 10-percent or to a value that eliminates their

limit when 50-percent exclusion is applied, if higher. The purpose is to provide some degree of "interference reduction" whenever such a station chooses to make a change in its facilities. It is requested that the requirement be waived in this instance, as the proposed relocation is not by the WTKT licensee's choice.

WTKT was forced to cease operating with its licensed nighttime directional antenna approximately three years ago because of the loss of the right to use the land at the transmitter site due to circumstances beyond the licensee's control. When the station was evicted, operation was begun with reduced power under a special temporary authorization and a search for a suitable new transmitter site was initiated. The search was complicated by the need to provide interference-free service to the city of license using a nighttime directional antenna designed to provide the requisite protection to other stations and local land-use requirements in the suitable areas. After proposing another site for which a local building permit could not be obtained, the licensee identified the site proposed herein and took steps to obtain local approval for construction of the three towers before authorizing the preparation of this application. This site, which is 5.7 kilometers from the licensed site, represents what is believed to be the best option for preserving the licensed nighttime coverage of WTKT to the fullest extent possible.

It is necessary for WTKT to reduce nighttime power from 5 kilowatts to 4.2 kilowatts to provide at least the same degree of interference protection to other stations with the proposed directional antenna pattern as

is afforded by the licensed nighttime directional antenna pattern. An effort was made to design the pattern to reduce interference wherever it was possible to do so consistent with maintaining near-optimum local coverage from the proposed site. The proposed nighttime directional antenna will reduce the nighttime RSS contribution limits below those of the licensed pattern at the following stations:

50% RSS			
Station	Existing Limit	Proposed Limit	Percent Change
WBET	9.22	9.15	-0.8
WEMD	44.07	43.40	-1.5
WIFI	39.51	39.10	-1.0
WEMR	7.96	7.90	-0.8
WKDV	13.79	13.40	-2.8
WKAP	1.59	1.54	-3.2

25% RSS			
Station	Existing Limit	Proposed Limit	Percent Change
WDDY	2.60	1.12	-132
WHIC	3.56	2.89	-23.2
WMBA	4.20	2.43	-72.8

Although it was possible to provide significant interference reduction in many cases, it was not practicable to provide a 10-percent radiation reduction toward all of the stations that receive 50-percent exclusion RSS contributions from WTKT without significantly compromising local coverage. As the six stations which receive 50-percent exclusion RSS contributions from the licensed WTKT directional antenna are located at various diverse azimuths, there cannot be a simultaneous 10-percent reduction in radiation toward them all without a significant further reduction in operating

power or construction of a much more complicated array. Since a larger array will not fit on the available property at the proposed site, a power reduction to significantly below the proposed 4.2 kilowatt level would be required for an across-the-board 10-percent radiation reduction toward all of the pertinent stations.

As the licensed WTKT transmitter site has been lost to eviction, the proposed site is the closest one to the licensed site for which local approval to construct the towers could be obtained, every effort was made to replicate the licensed nighttime service area to the fullest extent possible while materially reducing the interference levels at several other stations, and a greater power reduction than the one proposed herein would be required to further reduce radiation toward the pertinent stations, a waiver of the "10-percent reduction" requirement of Section 73.182(q) of the Rules is respectfully requested. Such a waiver would be consistent with others that have been granted by the FCC under circumstances where stations had to be moved due to circumstances beyond their licensees' control.

Site Coordinates

The proposed site coordinates were determined by a registered surveyor and verified with a handheld GPS. The NAD 27 coordinates are:

40-18-32 North
76-56-13 West

Site Location and Photographs

Figure 13 shows a topographical map with the exact location of the proposed facility. Figure 14 shows photographs taken in 8 directions every 45 degrees beginning at in the northerly direction.

Environmental Considerations

The proposed WTKT operation, both daytime and nighttime, was evaluated in terms of both the electric and magnetic field components which will be present at the base of each tower. Using Figures 1 through 4 of Supplement A to OET Bulletin 65, the worst-case interpolated distance at which the electric and magnetic fields would fall below ANSI guidelines is 2 meters. The area surrounding the base of each tower will be appropriately restricted with a fence having a minimum radius of 2 meters (7 feet), unless data obtained after construction has been completed indicates otherwise. The fences should assure that persons on the property outside the fenced areas will not be exposed to radiofrequency field levels in excess of the standards specified in 47 CFR 1.1307(b) for human exposure to radiofrequency radiation.

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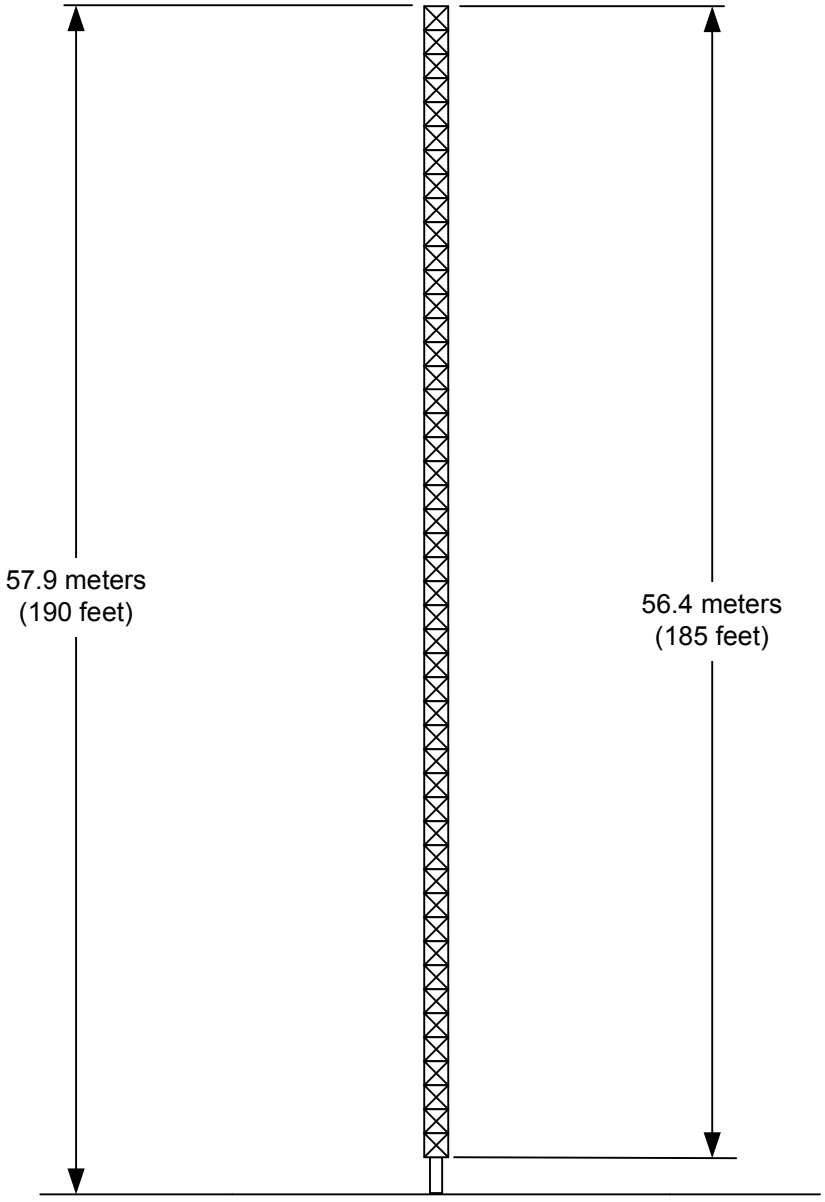
201 Fletcher Avenue
Sarasota, Florida 34237

(941) 329-6000

February 24, 2004

FEB 2004

Site Coordinates(NAD 27)
40° 18' 32" N
76° 56' 13" W



All Towers

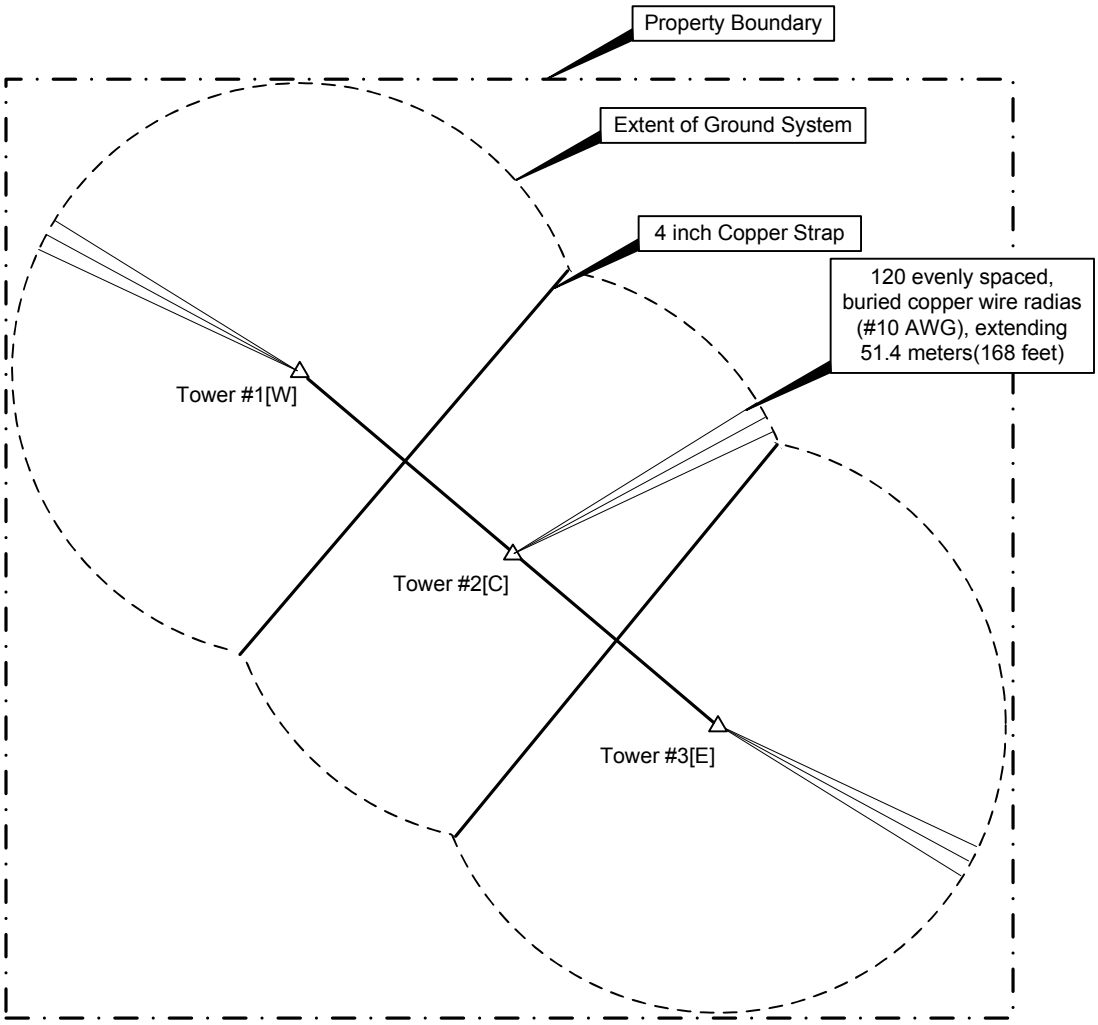
Not To Scale

SKETCH OF ANTENNA ELEMENTS

RADIO STATION WTKT
HARRISBURG, PENNSYLVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

JAN 2004



Site Coordinates(NAD 27)
40° 18' 32" N
76° 56' 13" W

PLAT OF TRANSMITTER LOCATION

RADIO STATION WTKT
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Specification for Nighttime
Directional Antenna System

Frequency:	1460 kHz
Hours of Operation:	Unlimited
Power:	4.2 kW
Number of Towers:	3
Type of Tower:	Guyed, Uniform Cross-section, base-insulated
All Towers - height above base insulator	56.4 m (185 ft)
All Towers - overall height	57.9 m (190 ft)

Tower Arrangement:

Tower No.	Spacing (deg.)/(m)	Orientation (deg. True)
1(W)	0.0/0.0	0.0
2(C)	88.9/50.7	130.2
3(E)	175.8/100.3	130.2

Element Field Parameters:

Nighttime:

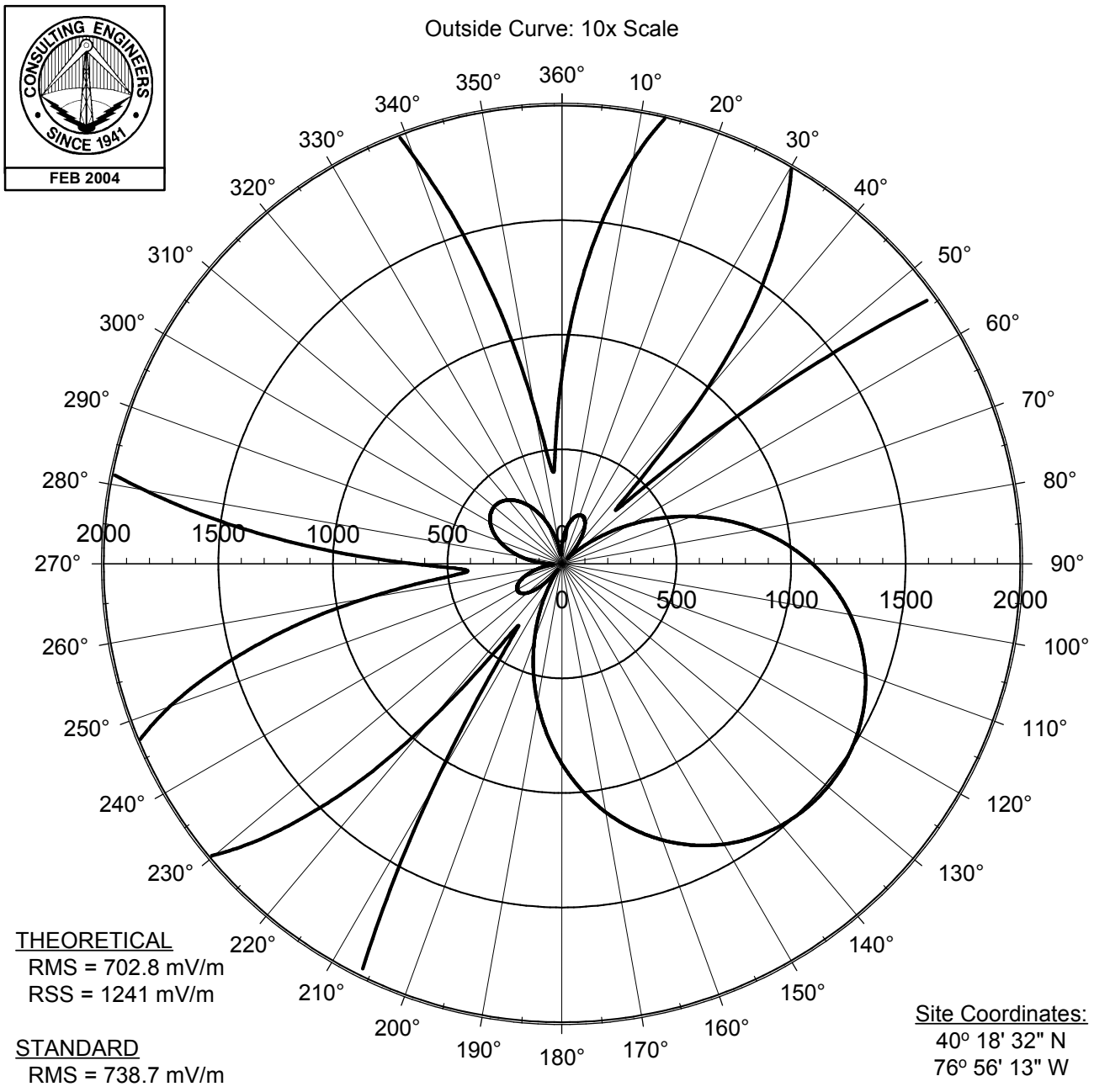
Tower No.	Field Ratio	Phase (degrees)
1(W)	1.000	0.0
2(C)	1.619	-152.4
3(E)	0.986	+55.4

Ground System:

Installed about the base of each tower are 120 evenly spaced, buried copper wire radials (#10 AWG), extending 51.4 meters (168 ft) from all towers except where shortened and bonded to transverse copper strap between towers. In addition, 4 inch copper strap runs from the transmitter and down the line of towers and is bonded to ground at the base of each tower.

Geographic Coordinates of
Center of Antenna Array:

40° 18′ 32″ North Latitude
76° 56′ 13″ West Longitude



DIRECTIONAL ANTENNA PATTERN

Tower Number	Field Ratio	Phase (deg.)	Spacing (deg.)	Bearing (deg.)	Height (deg.)
1	1.000	0.0	0.0	0.0	98.9
2	1.619	-152.4	88.9	130.2	98.9
3	0.986	+55.4	175.8	130.2	98.9

PROPOSED NIGHTTIME HORIZONTAL PLANE STANDARD RADIATION PATTERN

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NIGHTTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

Tower Number	Field Ratio	Phase (deg.)	Spacing (deg.)	Bearing (deg.)	Height (deg.)
1	1.000	0.0	0.0	0.0	98.9
2	1.619	-152.4	88.9	130.2	98.9
3	0.986	+55.4	175.8	130.2	98.9

Input Power (kW)	Loop Loss (ohms)	Theo. RMS (mV/m)	Theo. RSS (mV/m)	Q Factor (mV/m)	Standard RMS (mV/m)
4.2	1.0	702.8	1241	31.0	738.7

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	0 (mV/m)	5 (mV/m)	10 (mV/m)	15 (mV/m)	20 (mV/m)	25 (mV/m)	30 (mV/m)
0	80.4	81.8	86.0	92.5	101	109	116
5	132	133	135	138	141	143	144
10	177	177	176	176	174	171	165
15	209	208	206	202	196	188	178
20	224	223	220	213	205	194	181
25	222	220	216	209	199	187	173
30	199	197	193	186	177	165	152
35	156	155	151	146	138	129	119
40	93.6	93.1	91.4	88.6	84.9	80.3	75.1
45	33.2	33.0	32.6	31.9	31.1	30.2	29.4
50	102	101	96.6	90.2	81.8	71.9	61.1
55	213	211	203	191	174	155	134
60	337	333	321	302	277	248	216
65	467	462	446	420	386	346	302
70	600	593	573	540	498	447	391
75	732	723	699	660	608	547	479
80	858	849	821	775	715	644	565
85	978	967	935	884	816	736	647
90	1087	1075	1040	984	910	821	723
95	1185	1172	1135	1074	994	898	791
100	1271	1257	1217	1153	1068	966	852
105	1343	1329	1287	1220	1131	1024	904
110	1402	1387	1344	1275	1183	1072	947
115	1448	1433	1389	1318	1223	1109	981
120	1480	1465	1420	1348	1252	1136	1005
125	1500	1485	1439	1366	1269	1152	1020
130	1507	1492	1446	1373	1275	1157	1025
135	1501	1486	1440	1367	1270	1153	1021
140	1482	1467	1422	1350	1253	1137	1007
145	1451	1436	1392	1320	1226	1111	983
150	1406	1392	1348	1279	1186	1075	950
155	1348	1334	1292	1225	1136	1028	908
160	1277	1263	1223	1159	1073	971	857
165	1192	1180	1142	1081	1000	904	797
170	1095	1083	1048	992	917	828	728
175	987	976	944	892	824	743	653

Standard Radiation Pattern
(at One Kilometer)

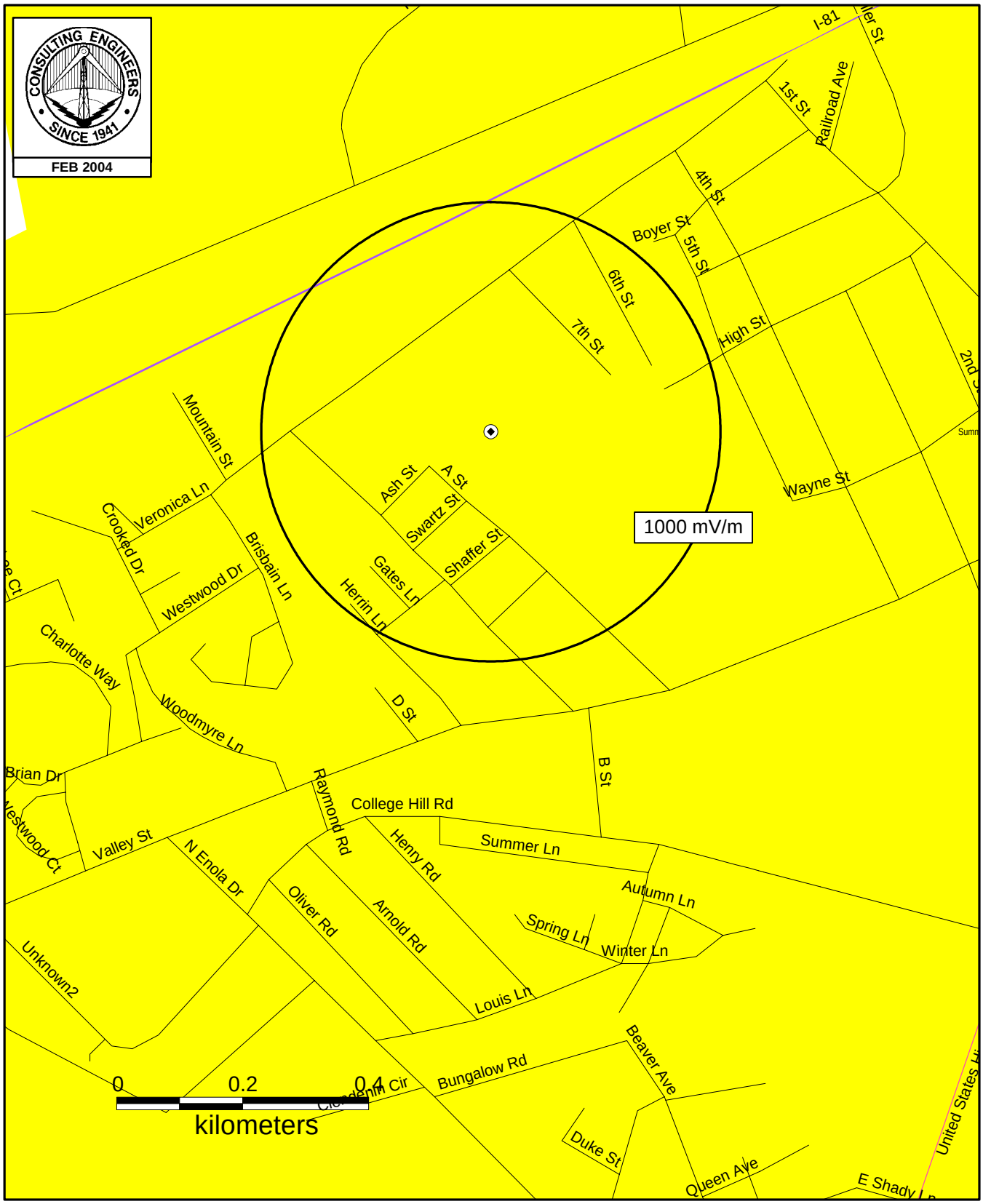
Azimuth Angle (deg)	Elevation Angle in Degrees						
	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)	65 (mV/m)
0	121	123	121	114	104	90.1	73.7
5	142	138	130	120	106	89.7	72.1
10	158	148	136	122	105	87.8	69.6
15	167	153	137	121	103	84.2	66.0
20	167	151	133	115	96.9	78.8	61.3
25	157	141	123	106	88.1	71.2	55.3
30	138	123	107	91.4	76.2	61.7	48.1
35	108	96.4	84.5	72.7	61.1	50.1	39.7
40	69.3	63.1	56.6	50.0	43.4	36.8	30.4
45	28.6	27.8	26.9	25.8	24.5	22.7	20.5
50	50.2	39.6	30.0	22.1	16.3	13.2	12.1
55	112	90.4	69.9	51.3	35.2	22.3	13.2
60	182	149	117	87.4	61.8	40.3	23.6
65	256	210	166	126	90.5	60.5	36.5
70	332	274	218	166	120	81.3	50.1
75	408	337	269	206	150	102	63.9
80	482	399	319	245	179	123	77.5
85	553	458	367	283	207	143	90.7
90	619	514	412	318	234	162	103
95	678	564	454	351	259	179	115
100	732	610	491	380	281	195	125
105	777	648	523	406	300	209	134
110	815	681	550	427	316	220	142
115	845	706	571	444	329	230	148
120	866	725	586	456	338	236	152
125	879	736	596	463	344	240	155
130	884	740	599	466	346	242	156
135	880	737	596	464	344	241	155
140	868	726	587	457	339	237	153
145	847	708	572	445	330	230	148
150	818	683	552	428	317	221	142
155	781	651	525	407	301	210	135
160	736	613	494	382	282	196	126
165	683	568	457	353	260	181	116
170	624	518	416	321	236	163	104
175	558	463	371	286	210	145	91.7

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle	Elevation Angle in Degrees						
	0	5	10	15	20	25	30
(deg)	(mV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)
180	868	859	830	784	724	652	572
185	742	734	709	669	617	555	486
190	611	604	583	550	507	455	398
195	478	472	456	430	395	354	309
200	347	343	331	312	286	256	223
205	223	220	212	199	182	162	140
210	110	109	104	97.6	88.6	78.0	66.4
215	33.1	32.9	32.2	31.2	30.0	28.7	27.6
220	88.0	87.5	86.0	83.5	80.1	76.0	71.2
225	151	150	147	142	135	126	116
230	196	195	191	184	174	163	150
235	221	219	215	208	198	186	172
240	225	224	220	214	205	194	181
245	211	210	207	203	197	189	179
250	180	180	179	178	176	172	167
255	136	137	139	141	144	146	146
260	84.6	86.0	90.1	96.3	104	112	118
265	40.1	40.8	43.9	50.6	61.0	73.8	86.8
270	64.4	61.3	52.7	41.5	34.2	39.5	54.5
275	124	119	106	86	62.1	39.1	31.5
280	185	179	163	138	107	72.6	41.1
285	242	235	217	188	151	110	68.2
290	291	284	263	231	190	143	95.4
295	331	324	302	267	222	171	118
300	361	353	330	293	246	192	136
305	380	372	347	309	261	205	147
310	386	378	354	315	266	210	151
315	381	373	348	310	261	206	147
320	363	355	332	295	247	193	137
325	334	327	304	269	224	173	120
330	295	287	267	234	193	146	97.4
335	246	239	221	191	154	112	70.5
340	190	184	168	142	111	75.6	43.0
345	129	124	111	90.4	65.5	41.2	30.8
350	68.7	65.5	56.4	44.0	34.5	37.6	52.1
355	38.6	39.1	41.5	47.5	57.8	70.7	84.2

Standard Radiation Pattern
(at One Kilometer)

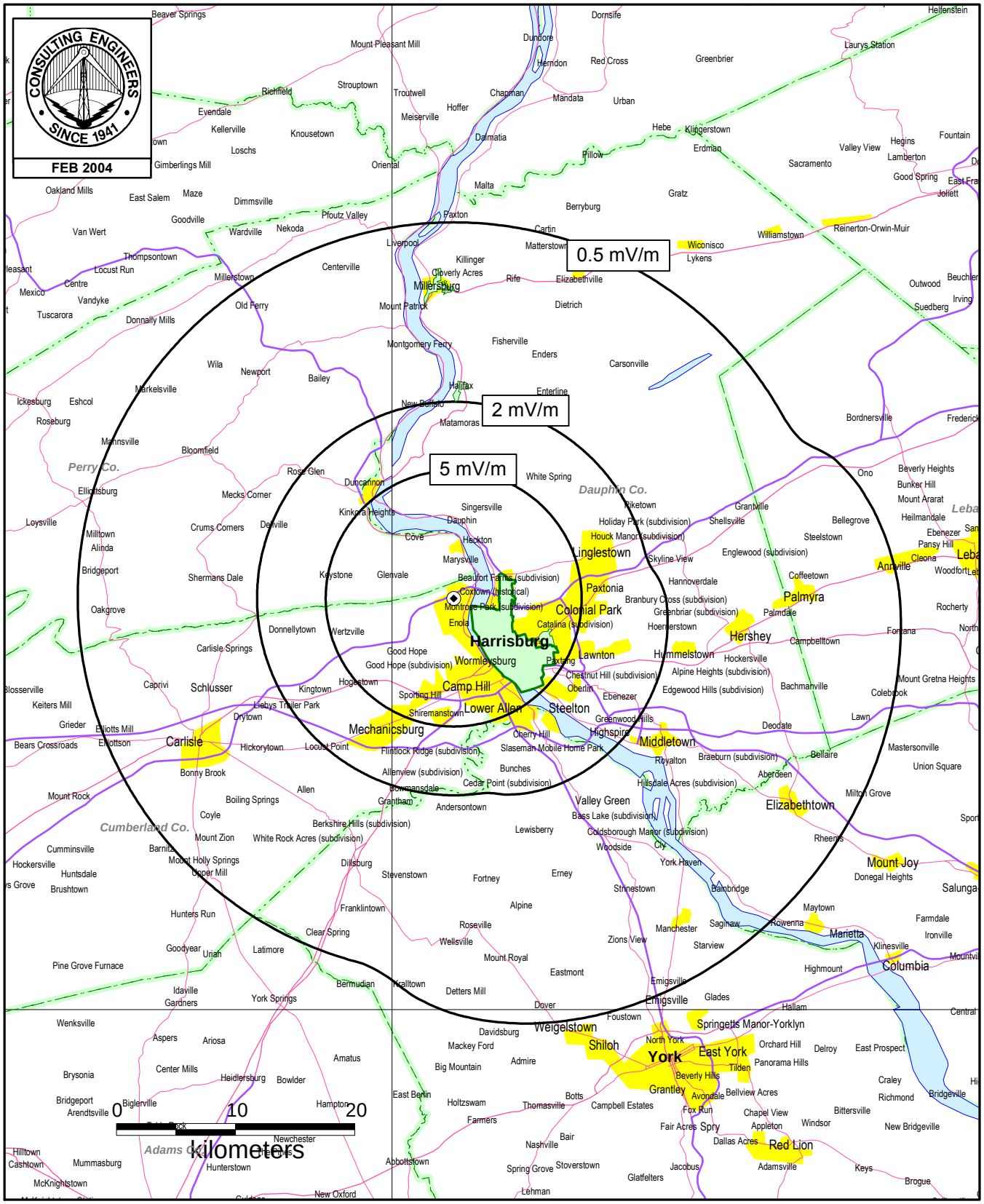
Azimuth Angle (deg)	Elevation Angle in Degrees						
	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)	65 (mV/m)
180	488	404	323	248	182	125	78.6
185	414	342	273	209	152	104	65.0
190	338	279	222	169	123	83.0	51.2
195	262	215	170	129	92.8	62.1	37.6
200	188	153	121	90.4	64.0	41.9	24.6
205	118	94.9	73.4	54.0	37.2	23.6	13.8
210	54.6	43.1	32.6	23.7	17.1	13.2	11.7
215	26.6	25.7	25.0	24.1	23.1	21.7	19.7
220	65.8	60.1	54.2	48.1	41.9	35.7	29.6
225	105	94.0	82.5	71.0	59.8	49.1	39.0
230	136	121	105	90.0	75.1	60.8	47.5
235	156	139	122	105	87.3	70.5	54.8
240	166	150	133	115	96.3	78.2	60.9
245	167	153	137	120	102	83.9	65.7
250	159	149	137	122	105	87.6	69.4
255	144	139	131	120	106	89.6	72.0
260	123	124	122	115	104	90.1	73.6
265	98.1	106	109	108	101	89.4	74.4
270	71.4	85.7	95.2	98.7	96.1	87.7	74.5
275	45.8	64.9	80.2	89.0	90.6	85.3	74.1
280	29.0	45.6	65.4	79.0	84.8	82.5	73.4
285	34.1	30.8	51.7	69.5	79.0	79.7	72.4
290	51.5	25.6	40.3	61.1	73.8	77.0	71.5
295	68.7	30.3	31.8	54.1	69.3	74.6	70.6
300	82.3	37.6	26.8	48.9	66.0	72.8	69.9
305	90.9	43.1	24.5	45.7	63.9	71.7	69.4
310	93.9	45.1	23.9	44.5	63.1	71.3	69.2
315	91.3	43.4	24.4	45.5	63.7	71.6	69.4
320	83.1	38.1	26.5	48.5	65.8	72.7	69.8
325	70.0	30.9	31.3	53.6	69.0	74.5	70.5
330	52.9	25.7	39.5	60.4	73.4	76.8	71.4
335	35.3	30.0	50.7	68.8	78.6	79.5	72.4
340	28.5	44.2	64.2	78.3	84.3	82.3	73.3
345	44.0	63.3	79.0	88.2	90.1	85.1	74.0
350	69.2	84.0	94.0	98.0	95.7	87.5	74.5
355	96.0	104	108	107	100	89.3	74.4



PROPOSED DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

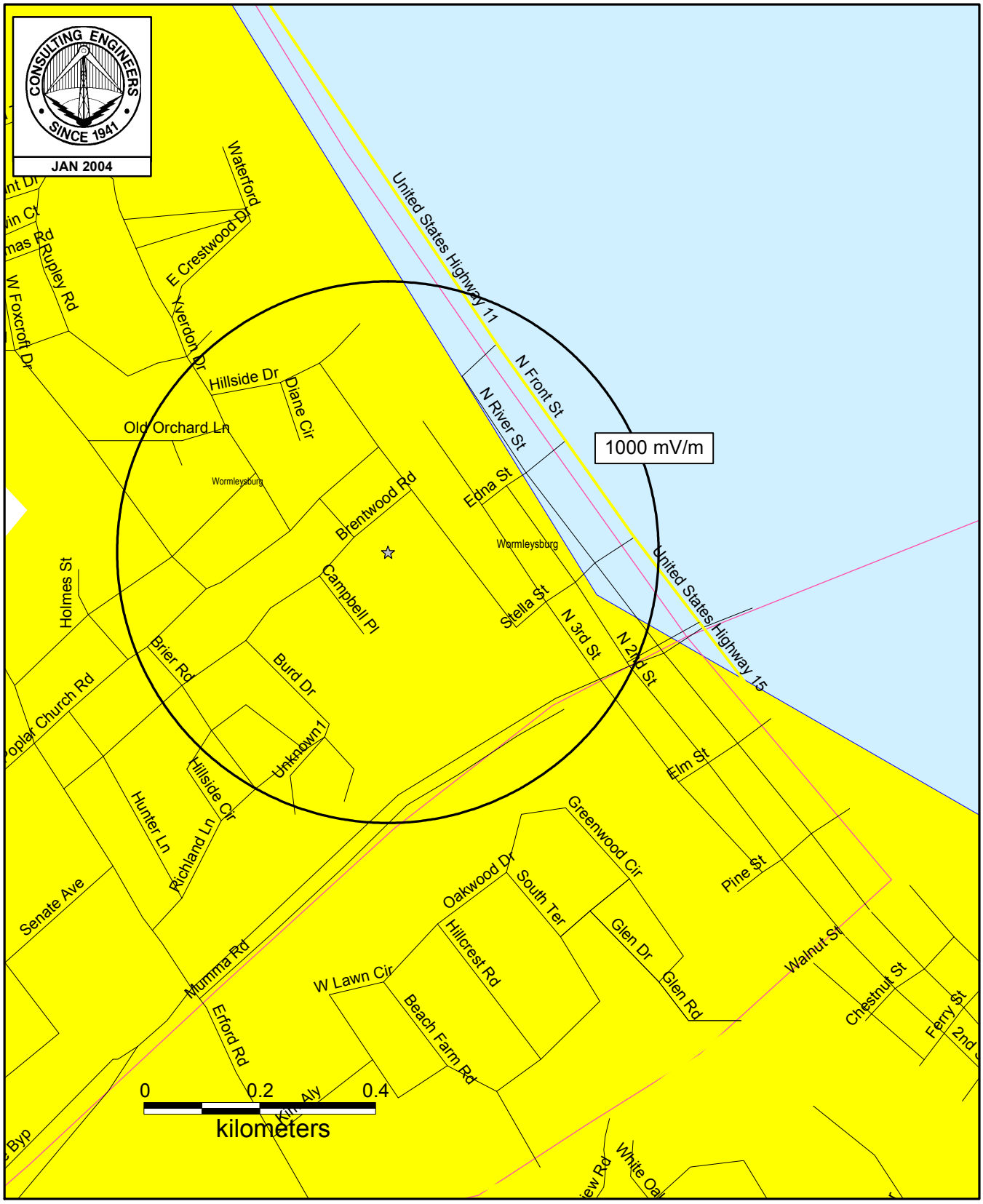
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



PROPOSED DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

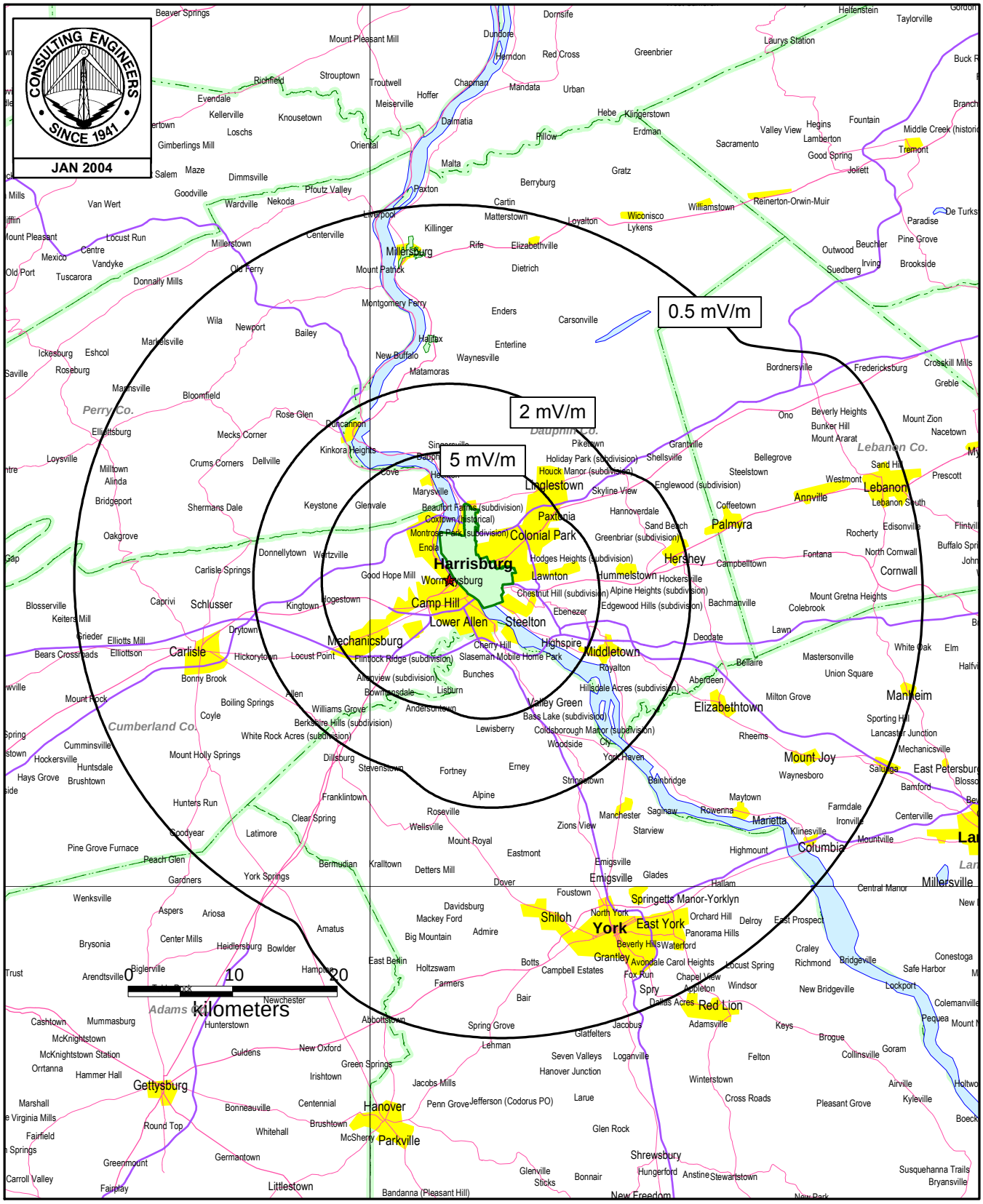
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION WWTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

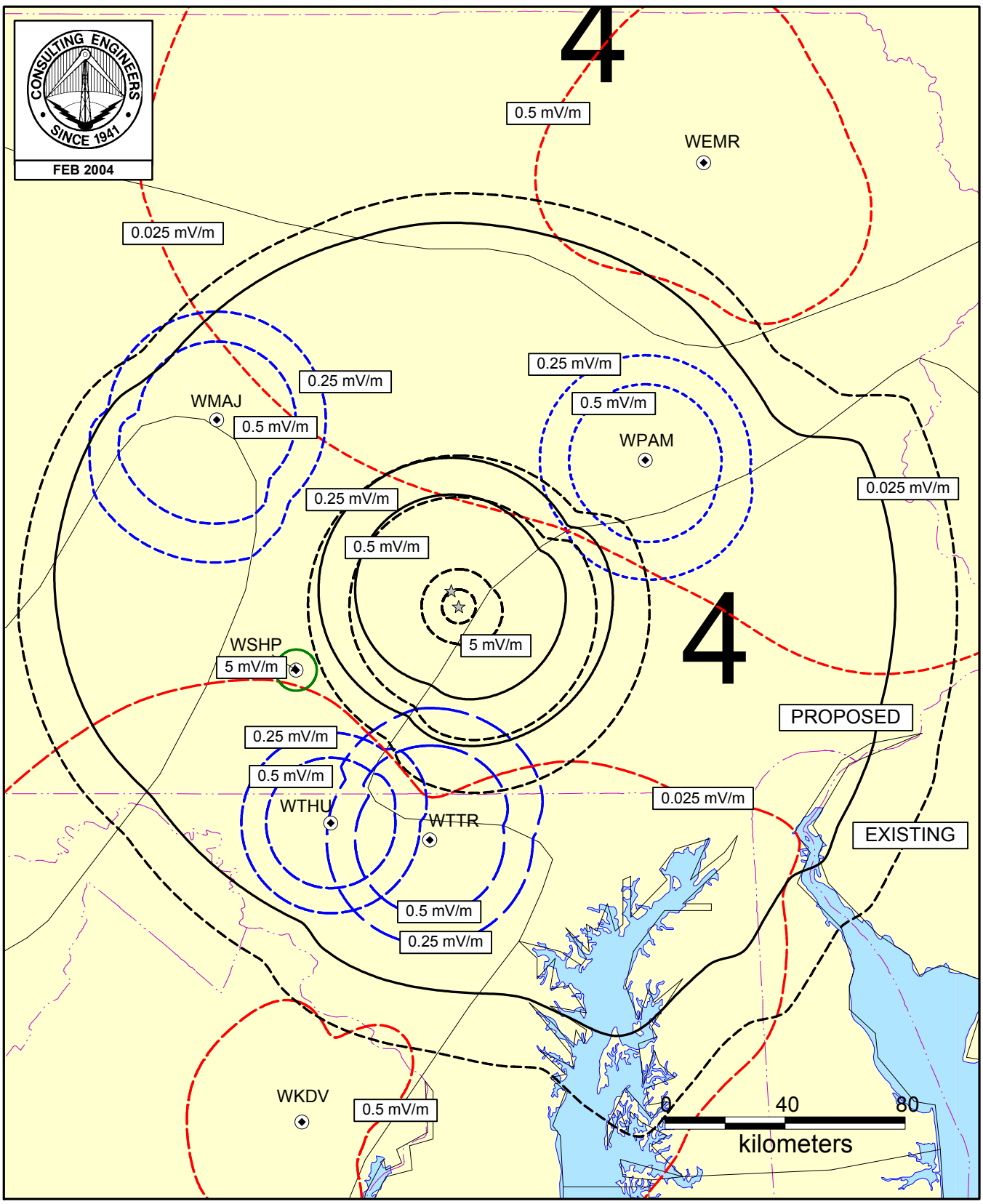
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

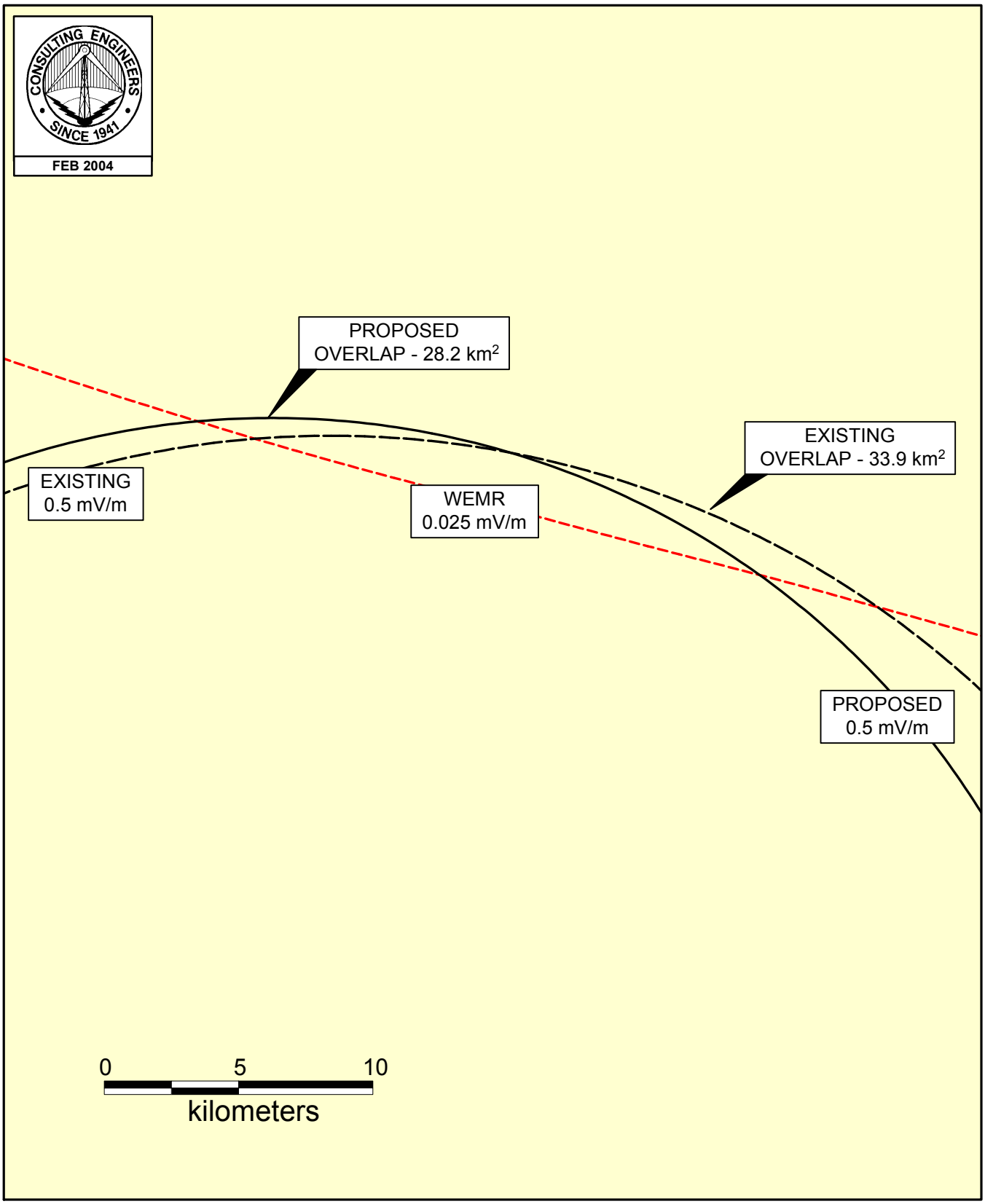
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



DAYTIME ALLOCATION STUDY

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



DAYTIME ALLOCATION STUDY

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION WTKT
HARRISBURG, PENNSYLVANIA

1460 KHZ 2.4 KW-D; 4.2 W-N U DA-N

Tabulation of Data Employed in
Calculation of Groundwave Contours

Call: WTKT - Proposed
Harrisburg, PA
Coordinates: 40-18-32 North 76-56-13 West
Frequency: 1460 kHz

FCC M3 conductivity employed along all azimuths

Call: WTKT - License
Harrisburg, PA
Coordinates: 40-15-42 North 76-54-40 West
Frequency: 1460 kHz

FCC M3 conductivity employed along all azimuths

Call: WEMR - License
Tunkhannock, PA
Coordinates: 41-33-46 North 75-58-11 West
Frequency: 1460 kHz

FCC M3 conductivity employed along all azimuths

Call: WKDV - License
Manassas, VA
Coordinates: 38-45-00 North 77-30-49 West
Frequency: 1460 kHz

FCC M3 conductivity employed along all azimuths

Call: WPAM - License
Pottsville, PA
Coordinates: 40-41-27 North 76-11-39 West
Frequency: 1450 kHz

FCC M3 conductivity employed along all azimuths

Call: WMAJ - License
State College, PA
Coordinates: 40-48-32 North 77-50-28 West
Frequency: 1450 kHz

FCC M3 conductivity employed along all azimuths

Call: WTHU - License
Thurmont, MD
Coordinates: 39-37-37 North 77-24-11 West
Frequency: 1450 kHz

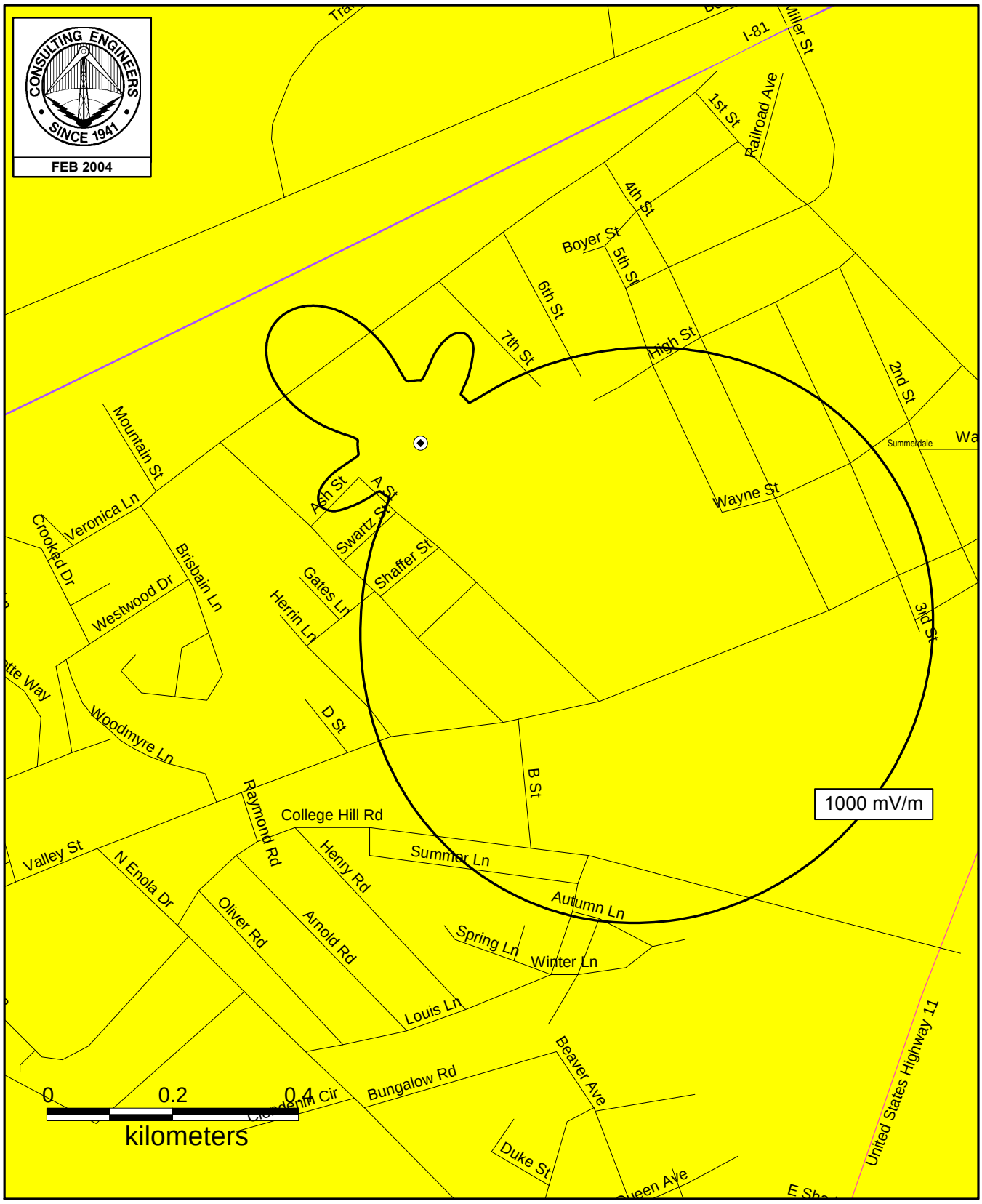
FCC M3 conductivity employed along all azimuths

Call: WTTR - License
Westminster, MD
Coordinates: 39-34-37 North 77-01-21 West
Frequency: 1470 kHz

FCC M3 conductivity employed along all azimuths

Call: WSHP - License
Shippensburg, PA
Coordinates: 40-04-30 North 77-32-09 West
Frequency: 1480 kHz

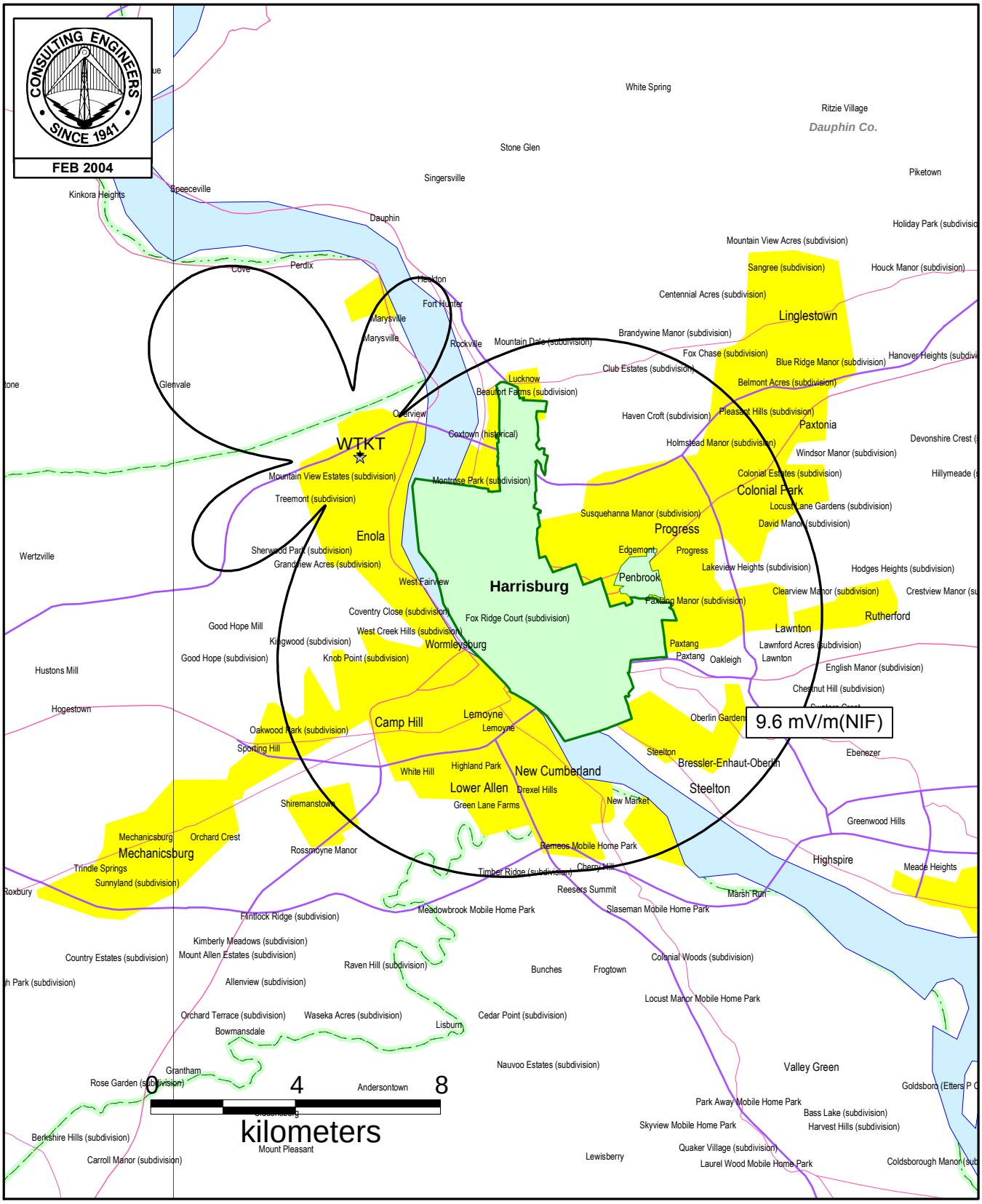
FCC M3 conductivity employed along all azimuths



PROPOSED NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

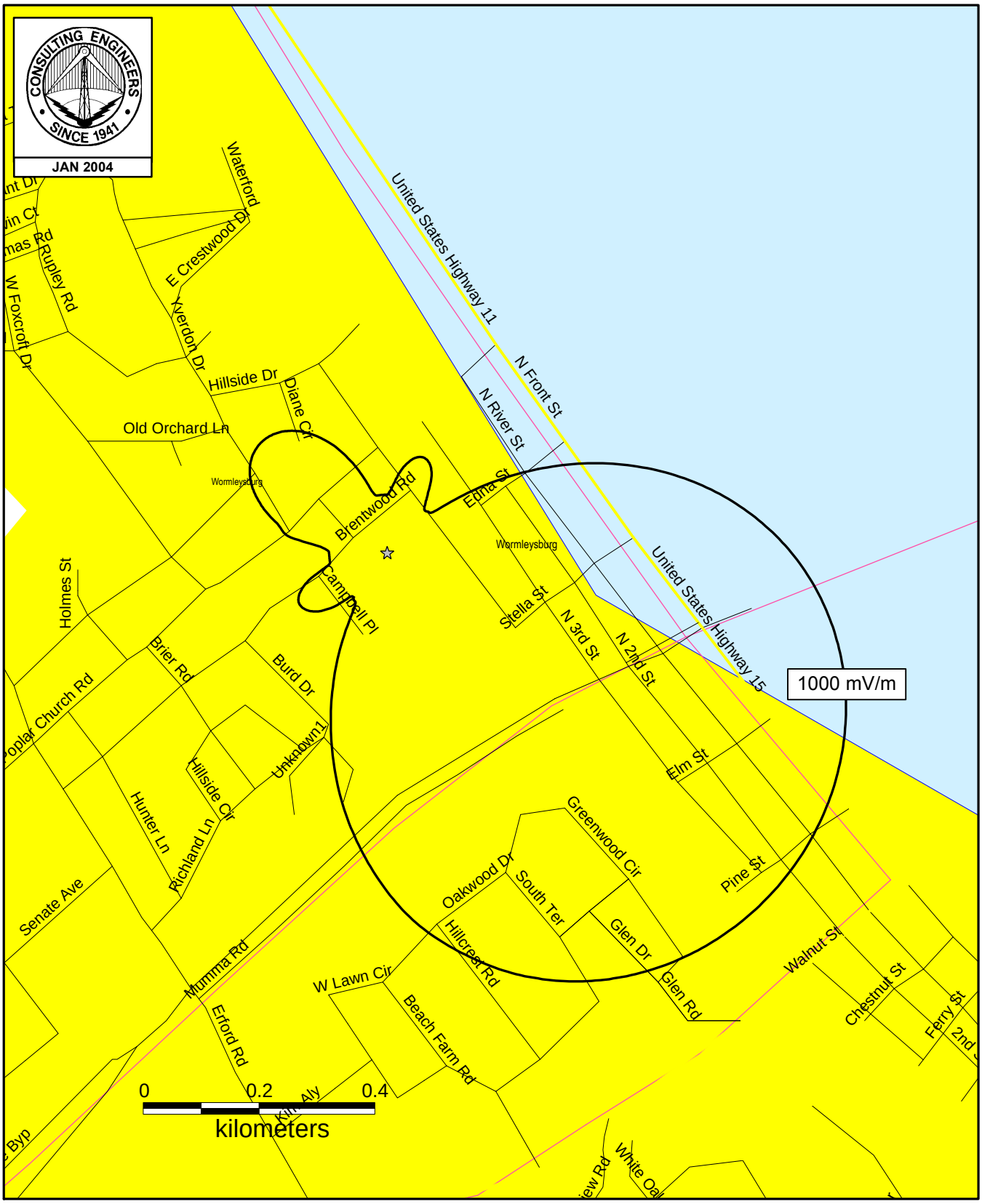
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



PROPOSED NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

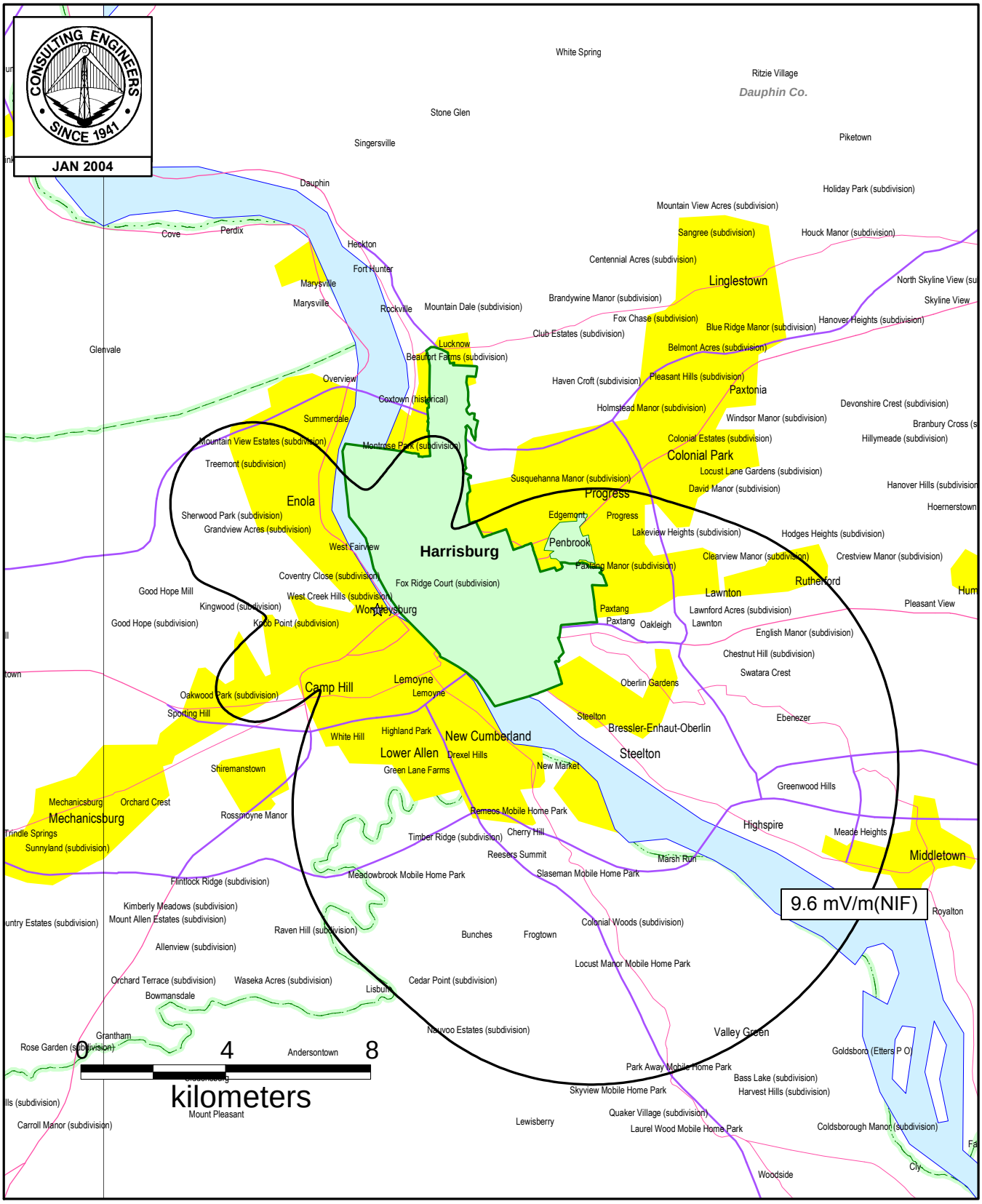
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION WKTK
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION WTKT
HARRISBURG, PENNSYLVANIA

1460 KHZ 2.4 KW-D; 4.2 W-N U DA-N

Nighttime Allocation Study

RSS Calculation To WTKT

To Station (Call) WTKT 40-18-32 076-56-13

From Station(Call)	WHIC	WIFI	WEMR	WBNS	WEMD	WKDV	WMBA
Frequency(kHz)	1460.000	1460.000	1460.000	1460.000	1460.000	1460.000	1460.000
G.C. Distance(km)	315.800	183.700	161.300	508.900	186.100	180.200	278.000
Slant Distance (km)	373.802	271.548	256.965	546.786	273.200	269.230	342.496
Bearing degrees	170.174	278.605	210.545	83.604	337.069	15.746	95.290
Mid-Pt Latitude(deg)	41.710	40.200	40.940	40.170	39.540	39.530	40.460
Geo. M.P. Lat.	53.060	51.600	52.320	51.410	50.920	50.890	51.760
Min-Angle(deg)	23.790	37.660	41.370	14.640	37.290	38.200	26.740
Max-Angle(deg)	36.400	52.030	55.600	24.000	51.660	52.560	40.050
Horiz. Rad (mV/m)	147.780	41.760	144.540	287.210	119.290	84.960	144.350
Max Vert. Rad. (mV/m)	134.071	78.861	71.409	211.312	64.998	59.783	73.621
Skywave Mult.	187.602	307.708	330.172	107.544	307.156	313.660	219.207
Night Limit (mV/m)	5.030	4.853	4.715	4.545	3.993	3.750	3.228

From Station(Call)	WZNZ	WDDY	WBCU	WRAD	CJOY	WKAM	WPON
Frequency(kHz)	1460.000	1460.000	1460.000	1460.000	1460.000	1460.000	1460.000
G.C. Distance(km)	1191.900	366.500	747.900	472.800	446.800	758.700	600.600
Slant Distance (km)	1208.550	417.525	774.220	513.319	489.538	784.602	633.061
Bearing degrees	20.106	226.481	32.429	40.768	141.102	97.881	112.230
Mid-Pt Latitude(deg)	35.340	41.480	37.540	38.740	41.910	41.030	41.470
Geo. M.P. Lat.	46.610	52.890	48.810	50.040	53.210	52.210	52.710
Min-Angle(deg)	4.200	20.610	9.210	15.870	16.850	9.030	12.120
Max-Angle(deg)	8.650	32.270	16.030	25.740	27.130	15.770	20.340
Horiz. Rad (mV/m)	439.190	93.980	168.570	105.360	33.820	173.070	114.240
Max Vert. Rad. (mV/m)	435.969	87.024	161.263	84.350	80.395	162.843	110.463
Skywave Mult.	32.285	158.790	65.080	122.282	122.421	57.484	81.493
Night Limit (mV/m)	2.815	2.764	2.099	2.063	1.968	1.872	1.800

RSS Night Limit to station
  50 % Exclusion = 09.578 mV/m from WHIC WIFI WEMR WBNS
  25 % Exclusion = 11.496 mV/m from WHIC WIFI WEMR WBNS WEMD WKDV WMBA
   0 % Exclusion = 15.239

* - enters the 25% RSS calculation
** - enters the 50% RSS calculation

Night Permissible Vertical Radiation From Station:WTKT
Coordinates: 40-18-32 076-56-13

Toward Station	Freq. (kHz)	GC Dist. (km)	Bear (degT)	Angles Min (deg)	Angles Max (deg)	Skywav Mult. (mV/m)	50% Ex-RSS (mV/m)	25% Ex-RSS (mV/m)	Req. Prot. (mV/m)	Perm. Vert-Rad mV/m@1km
MEDIC	1460	2821.3	303.7	0.0	0.0	4.17	2.93	4.07	1.46	1756.8
* CJOY	1460	446.8	323.3	22.2	22.2	133.43	14.49	17.39	7.25	271.6
* CJOY	1460	446.8	323.3	22.2	22.2	133.43	14.49	17.39	7.25	271.6
CKRB	1460	822.	35.7	11.3	11.3	84.05	37.49	39.92	18.74	1115.1
HJMN	1460	3577.3	179.4	0.0	0.0	.95	8.69	10.92	4.34	22786.4
HJJH	1460	3983.	177.9	0.0	0.0	.76	8.22	10.79	4.11	27162.7
HJJW	1460	3976.7	175.1	0.0	0.0	.76	10.56	11.89	5.28	34790.1
HJZU	1460	4351.9	180.5	0.0	0.0	.63	7.38	8.61	3.69	29506.1
HJFL	1460	4274.4	179.	0.0	0.0	.65	10.6	11.4	5.30	40769.5
HJAL	1460	3450.8	177.1	0.0	0.0	1.03	8.64	10.64	4.32	20881.1
HJTF	1460	3803.4	179.5	0.0	0.0	.83	9.15	11.69	4.57	27591.4
HJMY	1460	3643.5	171.5	0.0	0.0	.91	8.79	11.16	4.39	24061.2
TILX	1460	3415.2	194.5	0.0	0.0	1.06	3.58	4.54	1.79	8448.9
CMHZ	1460	2074.	182.4	0.6	0.6	3.74	4.76	5.	2.38	3179.6
HIAN	1460	2507.	160.7	0.0	0.0	2.24	6.43	7.4	3.22	7171.2
HIAR	1460	2520.	163.	0.0	0.0	2.21	6.47	7.45	3.23	7310.1
TGRN	1460	2884.4	209.4	0.0	0.0	1.57	4.5	5.45	2.25	7155.3
4VEA	1460	2330.1	167.4	0.0	0.0	2.72	7.47	8.17	3.73	6875.7
HRQX	1460	3064.9	202.6	0.0	0.0	1.36	3.68	3.86	1.84	6748.5
HRIC	1460	2919.5	204.5	0.0	0.0	1.53	4.19	4.36	2.09	6862.8
XE	1460	2952.5	248.9	0.0	0.0	3.73	12.23	14.27	6.12	8195.5
XEYC	1460	2804.6	259.4	0.0	0.0	4.23	7.73	10.93	3.86	4569.4
XEYC	1460	2804.6	259.4	0.0	0.0	4.23	7.73	10.93	3.86	4569.4
XEPD	1460	2616.9	245.8	0.0	0.0	5.02	10.48	14.55	5.24	5221.1
XEUJ	1460	2798.5	214.9	0.0	0.0	4.25	10.4	11.98	5.20	6113.7
XE	1460	3080.8	243.4	0.0	0.0	3.39	14.89	16.8	7.45	10990.6
XEGRA	1460	3407.3	226.9	0.0	0.0	2.67	33.32	33.32	16.66	31154.6
XEHE	1460	3268.8	235.4	0.0	0.0	2.95	27.11	28.45	13.55	22973.7
XELX	1460	3187.	231.2	0.0	0.0	3.12	14.17	17.83	7.09	11352.5
XE0023	1460	3359.6	240.	0.0	0.0	2.77	21.39	23.64	10.70	19329.6
XEKC	1460	3207.6	222.	0.0	0.0	3.07	17.81	21.68	8.91	14485.2
XECPQ	1460	2538.6	207.9	0.0	0.0	5.45	9.74	11.14	4.87	4471.5
XEXQ	1460	3030.5	235.5	0.0	0.0	3.51	14.36	18.02	7.18	10222.5
XEHX	1460	3331.8	255.2	0.0	0.0	2.82	9.46	12.58	4.73	8378.4
XEARF	1460	3147.3	259.8	0.0	0.0	3.22	8.79	12.32	4.40	6826.1
XEOLA	1460	2809.9	230.7	0.0	0.0	4.21	13.37	15.83	6.68	7938.7
XEJH	1460	2991.	225.3	0.0	0.0	3.62	13.89	17.32	6.94	9596.9
YNRV1	1460	3249.5	200.2	0.0	0.0	1.19	2.89	3.73	1.44	6070.1
HOO 42	1460	3491.6	190.4	0.0	0.0	1.01	5.16	6.28	2.58	12819.8
GRDTK	1460	2168.6	163.7	0.2	0.2	3.31	3.66	5.09	1.83	2763.9
WMCJ	1460	1110.6	235.3	4.9	9.6	34.51	9.72	12.83	3.21	464.7
WHAL	1460	1130.7	221.8	4.7	9.4	34.35	9.41	12.13	3.03	441.5
KTYM	1460	3702.3	272.5	0.0	0.0	2.95	7.13	8.03	2.01	3404.2
KTYM	1460	3702.3	272.5	0.0	0.0	2.95	7.13	8.03	2.01	3404.2
KION	1460	3863.3	278.8	0.0	0.0	2.34	3.16	4.82	1.20	2579.3
KCNR	1460	3802.	285.6	0.0	0.0	1.98	6.61	6.82	1.70	4297.4
KZNT	1460	2378.7	275.1	0.0	0.4	6.95	8.58	11.83	2.96	2127.8
WZNZ	1460	1191.7	202.9	4.2	8.7	32.29	7.68	9.13	2.28	353.4
WXEM	1460	927.5	224.4	6.7	12.4	46.66	14.13	16.86	4.21	451.6
KHRA	1460	7747.8	281.2	0.0	0.0	.63	1.8	2.02	.50	3984.6
KXNO	1460	1398.9	281.5	2.7	6.5	19.23	3.53	4.7	1.17	305.4
WKAM	1460	758.5	283.7	9.0	15.8	57.51	10.99	12.99	3.25	282.5
WXOK	1460	1689.9	234.1	1.1	4.2	17.35	7.77	10.07	2.52	725.2

* - enters the 25% RSS calculation
** - enters the 50% RSS calculation

Night Permissible Vertical Radiation From Station:WTKT
Coordinates: 40-18-32 076-56-13

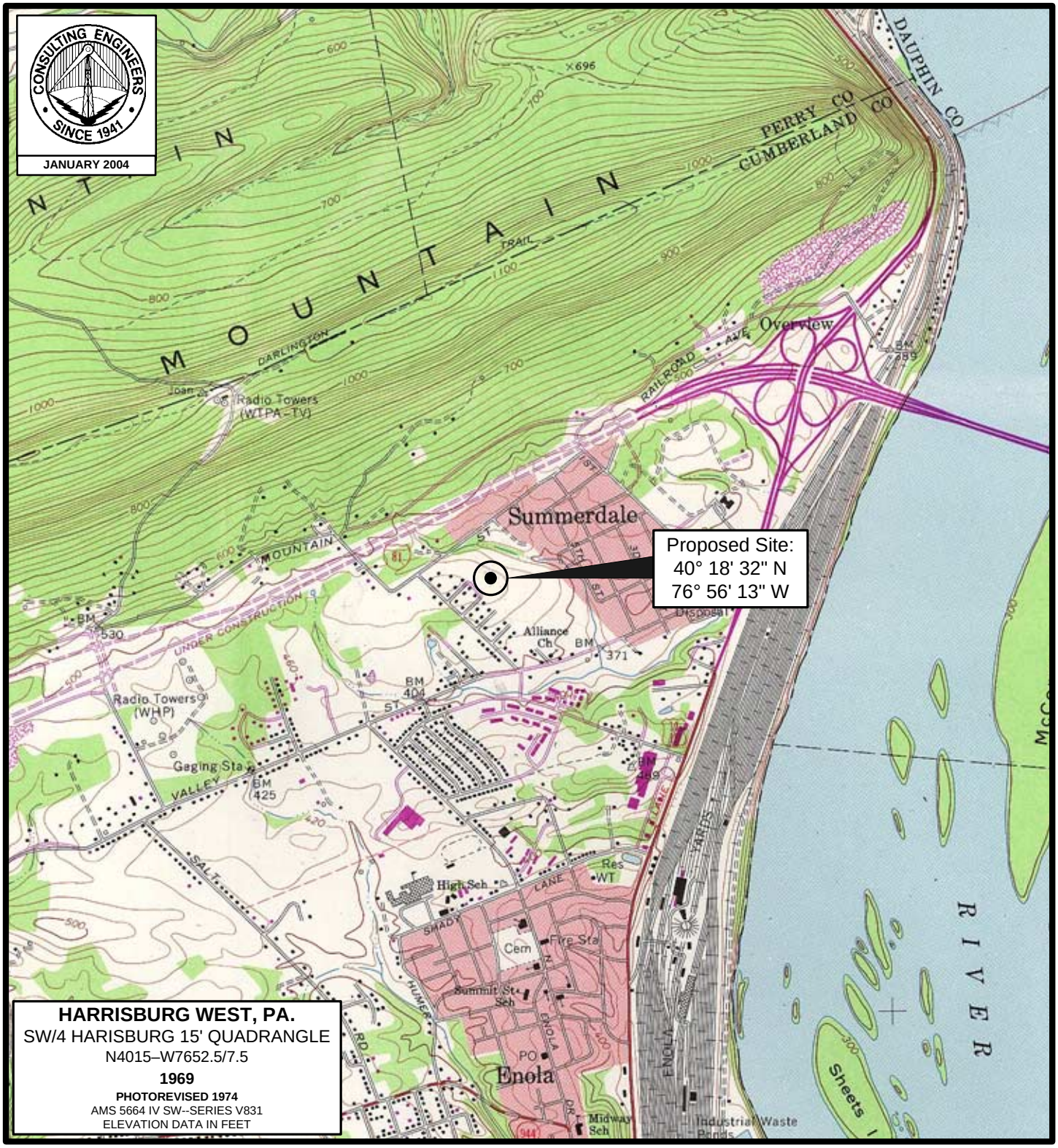
Toward Station	Freq. (kHz)	GC Dist. (km)	Bear (degT)	Angles Min (deg)	Angles Max (deg)	Skywav Mult. (mV/m)	50% Ex-RSS (mV/m)	25% Ex-RSS (mV/m)	Req. Prot. (mV/m)	Perm. Vert-Rad mV/m@1km
KBSF	1460	1679.7	246.3	1.1	4.3	16.72	10.42	12.43	3.11	928.7
**WBET	1460	528.9	66.6	14.0	23.1	98.45	17.8	20.04	9.22	468.4
**WEMD	1460	186.1	156.5	37.3	51.7	307.17	44.07	48.68	44.07	717.3
WBRN	1460	798.1	300.7	8.4	14.9	50.66	25.24	26.17	6.54	645.8
WPON	1460	600.5	296.6	12.1	20.3	81.55	16.8	20.96	5.24	321.3
KDMA	1460	1618.	294.7	1.4	4.8	12.79	12.59	13.91	3.48	1359.1
WEWO	1460	654.6	201.1	10.9	18.6	79.41	21.39	24.26	6.07	381.9
KLTC	1460	2196.4	297.9	0.0	1.3	5.87	4.97	5.37	1.34	1145.
**WIFI	1460	183.9	97.2	37.6	52.0	307.51	39.51	42.4	39.51	642.4
KENO	1460	3343.6	274.6	0.0	0.0	3.47	5.33	6.57	1.64	2368.4
* WDDY	1460	366.7	44.4	20.6	32.3	158.69	7.05	8.89	2.60	82.
* WHIC	1460	315.9	350.6	23.8	36.4	187.57	8.42	10.51	3.56	95.
WBNS	1460	508.7	267.5	14.7	24.0	107.61	5.56	7.72	1.93	89.7
**WBKC	1460	393.9	295.2	19.2	30.4	147.36	11.74	14.09	6.81	230.9
* WMBA	1460	277.8	277.4	26.8	40.1	219.37	9.22	12.91	4.20	95.8
WTKT	1460	5.4	.	0.0	0.0	.	9.67	11.58	2.89	95.8
**WEMR	1460	161.5	30.	41.3	55.6	329.96	13.03	15.56	7.96	120.7
WRRE	1460	2673.8	153.5	0.0	0.0	8.66	15.33	18.28	4.57	2638.3
WLRP	1460	2620.5	155.8	0.0	0.0	8.99	14.7	18.78	4.69	2610.1
WBCU	1460	747.7	215.3	9.2	16.0	65.11	14.15	16.23	4.06	311.6
KTFW	1460	2005.7	251.1	0.0	2.3	11.97	16.93	19.01	4.75	1985.2
KBRZ	1460	2094.2	238.8	0.0	1.8	11.86	23.74	23.74	5.94	2503.4
KCWM	1460	2352.4	245.8	0.0	0.5	9.35	10.34	13.65	3.41	1825.3
KBZO	1460	2326.5	259.1	0.0	0.6	8.63	14.53	16.73	4.18	2423.6
KTFW	1460	2055.7	248.	0.0	2.0	11.67	15.87	18.33	4.58	1963.2
**WKDV	1460	180.1	196.	38.2	52.6	313.83	13.79	17.01	13.79	219.7
WRAD	1460	472.5	223.	15.9	25.8	122.36	13.08	16.01	4.00	163.6
KARR	1460	3654.6	298.3	0.0	0.0	1.36	37.08	37.08	9.27	34102.3
KUTI	1460	3534.4	296.	0.0	0.0	1.65	2.79	3.64	.91	2764.7
YVRJ	1460	3515.8	167.3	0.0	0.0	.99	5.92	7.48	2.96	14954.6
CMHZ	1460	2074.	182.4	0.6	0.6	3.74	4.76	5.	2.38	3179.6
CMHZ	1460	2074.	182.4	0.6	0.6	3.74	4.76	5.	2.38	3179.6
NEW	1470	3082.8	270.5	0.0	0.0	4.39	14.49	16.69	4.17	47498.5
KUTY	1470	3644.1	273.5	0.0	0.0	2.98	27.62	27.62	6.91	115713.
KIID	1470	3786.6	281.9	0.0	0.0	2.24	9.61	11.18	2.79	62409.4
WMMW	1470	374.1	66.9	20.2	31.7	156.8	9.35	11.82	2.95	942.2
WLVU	1470	1461.9	203.1	2.3	6.0	23.36	21.03	21.76	5.44	11643.5
WWNN	1470	1599.8	191.9	1.5	4.9	20.39	13.99	15.06	3.77	9233.5
WBIT	1470	1173.5	211.7	4.4	8.9	32.81	37.14	37.14	9.29	14151.2
WCLA	1470	1007.7	207.7	5.9	11.1	41.76	33.3	34.91	8.73	10449.5
WRGA	1470	986.	230.	6.1	11.4	42.11	10.55	13.25	3.31	3933.9
KWSL	1470	1639.1	284.6	1.3	4.6	13.64	8.	9.13	2.28	8362.7
WCFJ	1470	907.7	281.3	7.0	12.7	42.74	37.12	37.12	9.28	10857.4
WMBD	1470	1065.2	275.7	5.3	10.2	32.91	3.22	4.91	1.23	1865.3
KAIR	1470	1537.5	273.	1.9	5.4	16.93	8.09	9.19	2.30	6784.4
KLCL	1470	1850.8	238.	0.3	3.2	14.68	5.35	7.72	1.93	6572.7
WAZN	1470	502.9	61.2	14.8	24.3	105.28	9.18	10.37	2.59	1231.9
WAZN	1470	532.1	62.	13.9	23.0	97.06	11.29	12.07	3.02	1554.8
WTTR	1470	81.6	184.9	60.3	71.0	424.92	9.55	9.92	2.48	291.9
WLAM	1470	691.	50.6	10.2	17.5	63.06	4.93	7.04	1.76	1396.3
WFNT	1470	630.4	300.2	11.4	19.3	75.14	6.09	8.86	2.22	1474.1
WKLZ	1470	752.5	289.4	9.1	15.9	57.55	16.31	17.12	4.28	3719.1
KLBP	1470	1441.6	297.	2.5	6.2	16.18	33.25	36.08	9.02	27878.1
WNAU	1470	1245.2	242.6	3.8	8.1	28.14	10.95	12.45	3.11	5531.8

* - enters the 25% RSS calculation
** - enters the 50% RSS calculation

Night Permissible Vertical Radiation From Station:WTKT
Coordinates: 40-18-32 076-56-13

Toward Station	Freq. (kHz)	GC Dist. (km)	Bear (degT)	Angles Min (deg)	Angles Max (deg)	Skywav Mult. (mV/m)	50% Ex-RSS (mV/m)	25% Ex-RSS (mV/m)	Req. Prot. (mV/m)	Perm. Vert-Rad mV/m@1km
WWBG	1470	530.1	210.3	14.0	23.1	105.79	4.91	6.53	1.63	772.
WTKO	1470	234.9	9.3	31.0	45.0	251.86	12.91	13.79	3.45	684.3
WLQR	1470	568.	287.1	12.9	21.5	89.86	8.87	10.11	2.53	1406.8
**WKAP	1470	128.3	73.	48.0	61.5	370.62	3.31	4.69	1.59	214.
WLOA	1470	317.6	289.3	23.7	36.2	190.17	9.24	11.52	2.88	757.1
WKCK	1470	2650.3	154.6	0.0	0.0	8.81	13.37	14.77	3.69	20966.9
WVOL	1470	972.1	245.1	6.2	11.6	41.91	10.38	13.17	3.29	3929.3
KVVZ	1470	2210.4	254.1	0.0	1.2	9.86	6.18	7.84	1.96	9941.
KUOL	1470	2222.7	245.2	0.0	1.1	10.35	18.3	19.93	4.98	24062.4
KUOL	1470	2222.6	245.1	0.0	1.1	10.36	18.24	19.88	4.97	23993.1
KACE	1470	2935.7	284.4	0.0	0.0	3.75	6.8	8.01	2.00	26721.6
KELA	1470	3723.5	296.6	0.0	0.0	1.39	5.5	5.7	1.43	51474.1
KBSN	1470	3442.4	297.	0.0	0.0	1.72	11.17	11.17	2.79	81392.1
WBKV	1470	989.3	293.8	6.1	11.3	35.11	39.61	45.65	11.41	16251.9
KKTY	1470	2372.2	286.	0.0	0.4	5.96	3.21	4.43	1.11	9307.5

* - enters the 25% RSS calculation
** - enters the 50% RSS calculation



1.0 0.5 0 1.0 miles

0.5 0 0.5 1.0 1.5 2.0 2.5 kilometers

TRANSMITTER SITE LOCATION

RADIO STATION WTKT
HARRISBURG, PENNSYLVANIA
1460 KHZ 2.4 KW-D 4.2 KW-N U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

VIEW LOOKING NORTH

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING NORTHEAST

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING EAST

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING SOUTHEAST

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING SOUTH

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING SOUTHWEST

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.5 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING WEST

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N

VIEW LOOKING NORTHWEST

SITE PHOTOGRAPHS

RADIO STATION WTKT
HARRISBURG, PENNSYVANIA
1460 KHZ 2.4 KW-D, 4.2 KW-N U DA-N