

Protection to WKSZ from Interference by W237AA

The site for the proposed facility is located within the protected contour which is second-adjacent to WKSZ with the proposed facility having radiation center 119 meters AGL. We predict the WKSZ contour at the proposed site to be 64.25 dBu F[50,50]m as displayed in **Figure 1**. According to established second-adjacent channel contour Undesired-to-Desired (U/D) protection ratios, the contour from the interfering station should be 40 dB higher than the protected contour. Therefore the respective interfering contour for this proposed amendment is 104.25 dBu F[50,10], which is 679.8 meters from the proposed radiation center. Displayed in **Figure 2** and **Figure 3** is the site with a blue dashed perimeter marking 679.8 meter radius of the site.

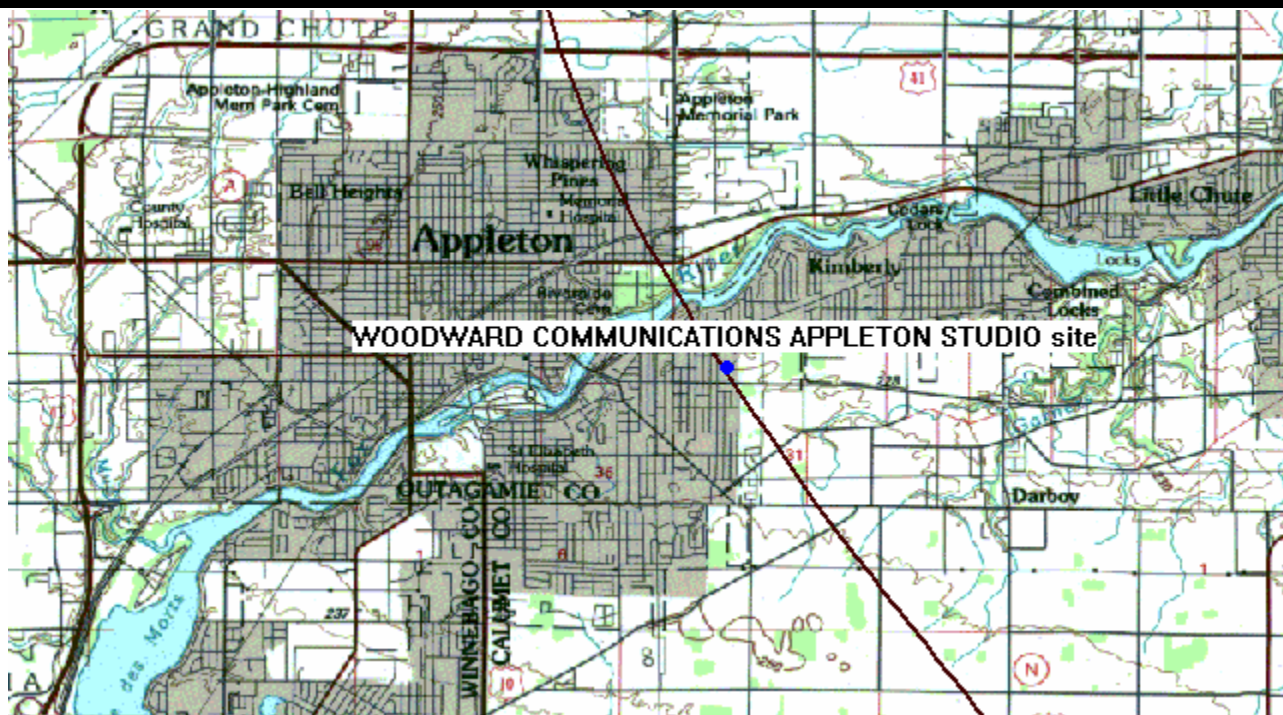


Figure 1

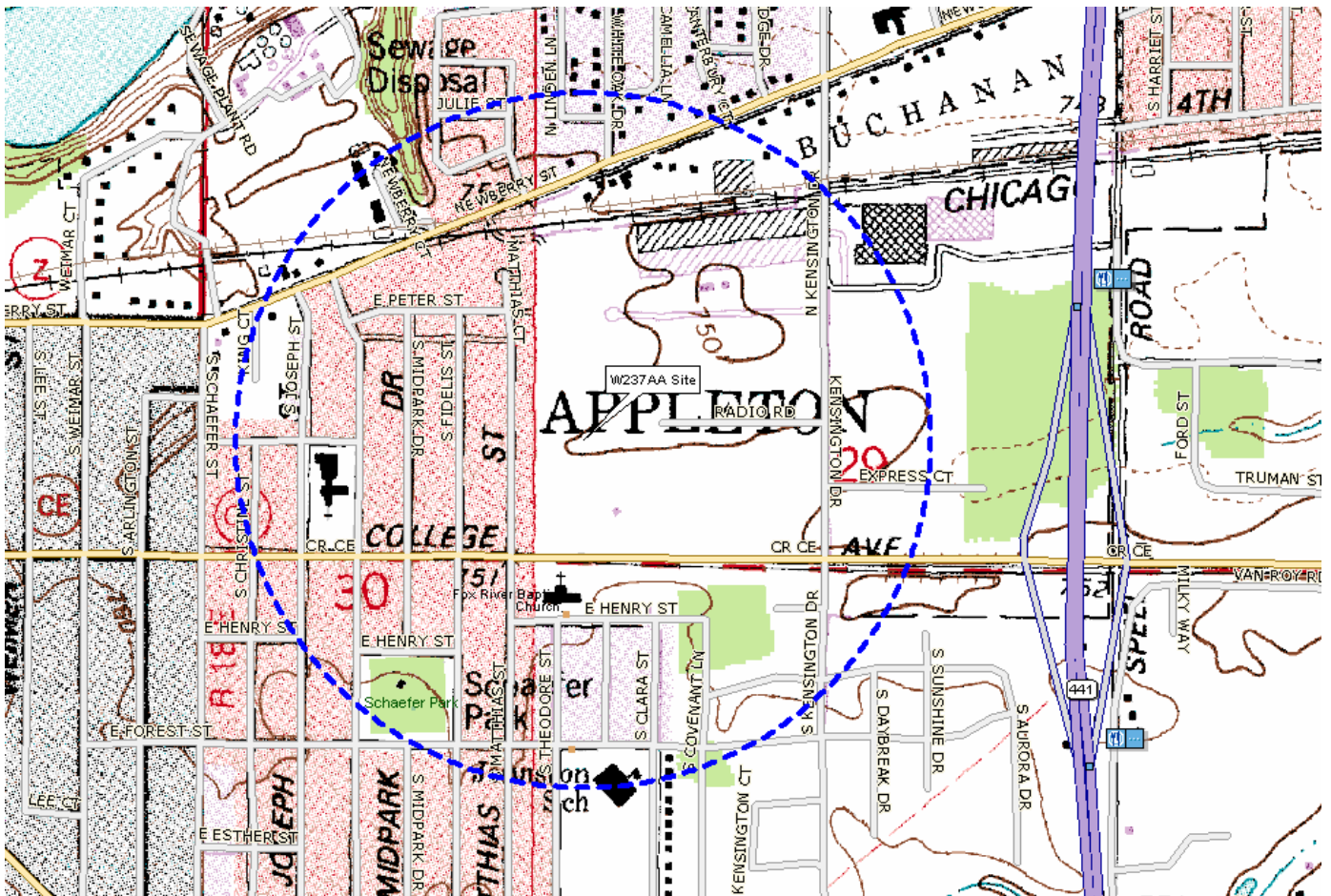


Figure 2

Applicant proposes to use a BEXT antenna model TFC2K-4-75WS, which is a four-bay antenna with $\frac{3}{4}$ wavelength bay spacing. A graphical representation of radiation in the vertical plane is displayed in **Figure 4**.

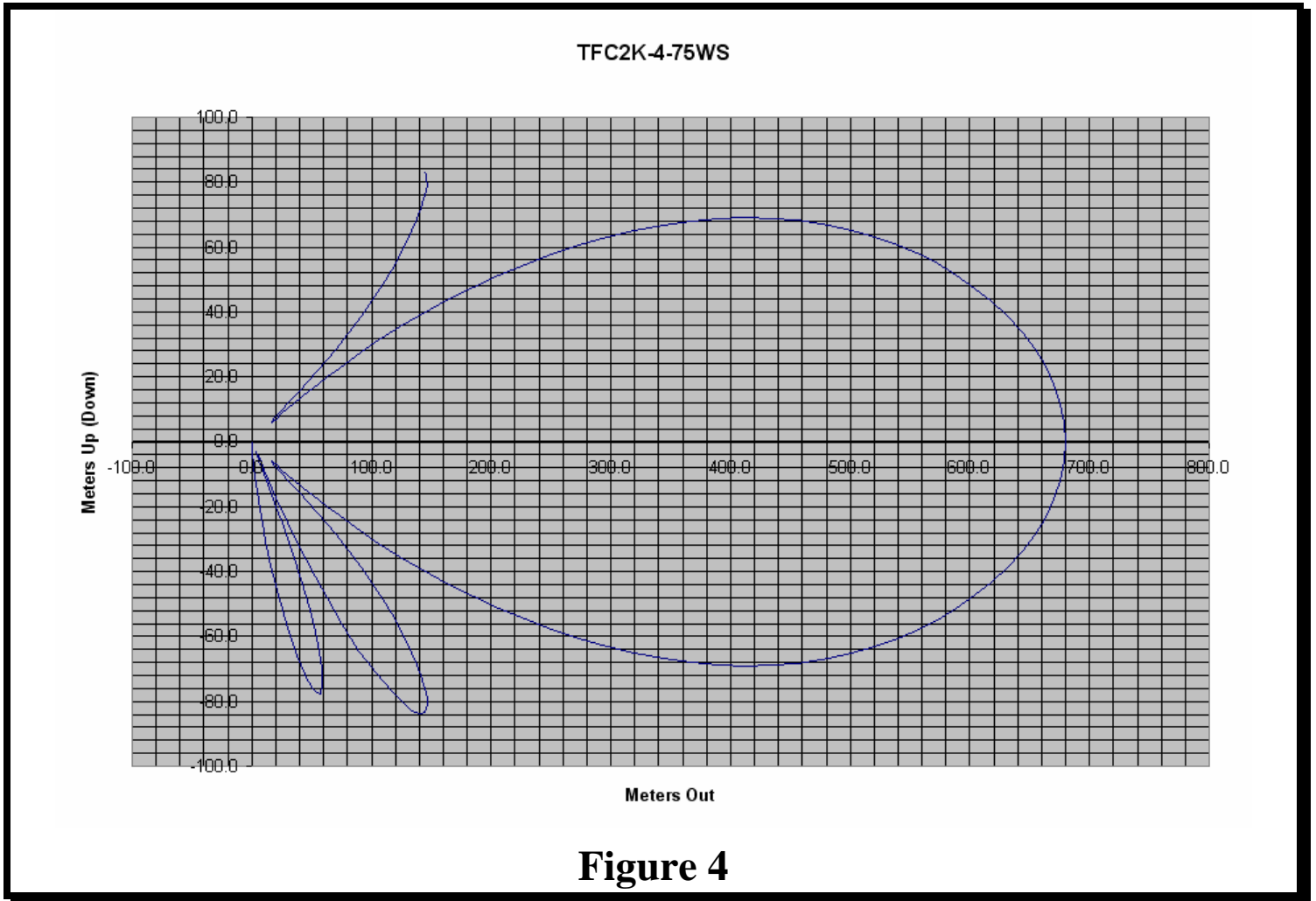
Field strength at various elevation angles were provided by the antenna manufacturer and displayed **Table 1** at the end of this exhibit. Columns with calculated field dB and the contour distance in meters which were also calculated both in elevation radial form and for plotting in

plane coordinates. It can be seen from this data that the actual interference area does not exceed 83.4 meters below the 119 m AGL center of radiation. Therefore, the actual interference area does not extend below 35 meters AGL. There is no structure within the blue radius in Figure 2 where the public would be more than 20 meters above the site elevation. There are no high-rise buildings. Within that radius the highest structure, which is also the largest, is a warehouse used for loading and unloading transfer trucks.



Figure 3

There is no residence, building, road or any public location within the actual area of interference, which is hovering far above the ground. Therefore, the interference area is limited to an area where there are no public places.



Request for Waiver

Since this proposal complies with 47CFR74.1204(d) based upon the fact that no actual interference will occur due to no population and no public locations within the areas of interference, we hereby request waiver of 47CFR74.1204(a)(3) for separation between this proposed facility and facilities of WKSZ.

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FCC Form 349 - Exhibit No. 13B
Waiver Request 47CFR74.1204

Table I

TFC2K475.DAT

ELEV ANGLE	FIELD STRENGTH	FIELD DB	ELEV ERP(KW)	ELEV DBK	104.25DBU CNTR(M)	DISTANCE OUT (M)	DISTANCE UP(DOWN)	ELEVATION AMSL (M)
=====	=====	=====	=====	=====	=====	=====	=====	=====
-90	0.000	-73.50	0.0000	-79.52	0.1	0.0	-0.1	347.9
-88	0.000	-75.60	0.0000	-81.62	0.1	0.0	-0.1	347.9
-86	0.000	-77.40	0.0000	-83.42	0.1	0.0	-0.1	347.9
-84	0.001	-59.70	0.0000	-65.72	0.7	0.1	-0.7	347.3
-82	0.003	-51.00	0.0000	-57.02	1.9	0.3	-1.9	346.1
-80	0.006	-44.80	0.0000	-50.82	3.9	0.7	-3.9	344.1
-78	0.010	-40.00	0.0000	-46.02	6.8	1.4	-6.6	341.4
-76	0.016	-36.10	0.0001	-42.12	10.7	2.6	-10.3	337.7
-74	0.023	-32.70	0.0001	-38.72	15.8	4.3	-15.1	332.9
-72	0.032	-29.90	0.0003	-35.92	21.7	6.7	-20.7	327.3
-70	0.043	-27.40	0.0005	-33.42	29.0	9.9	-27.2	320.8
-68	0.054	-25.30	0.0007	-31.32	36.9	13.8	-34.2	313.8
-66	0.068	-23.30	0.0012	-29.32	46.5	18.9	-42.5	305.5
-64	0.082	-21.70	0.0017	-27.72	55.9	24.5	-50.2	297.8
-62	0.098	-20.20	0.0024	-26.22	66.4	31.2	-58.7	289.3
-60	0.112	-19.00	0.0031	-25.02	76.3	38.1	-66.1	281.9
-58	0.124	-18.10	0.0039	-24.12	84.6	44.8	-71.7	276.3
-56	0.135	-17.40	0.0045	-23.42	91.7	51.3	-76.0	272.0
-54	0.141	-17.00	0.0050	-23.02	96.0	56.4	-77.7	270.3
-52	0.141	-17.00	0.0050	-23.02	96.0	59.1	-75.7	272.3
-50	0.133	-17.50	0.0044	-23.52	90.6	58.3	-69.4	278.6
-48	0.116	-18.70	0.0034	-24.72	79.0	52.8	-58.7	289.3
-46	0.089	-21.00	0.0020	-27.02	60.6	42.1	-43.6	304.4
-44	0.052	-25.60	0.0007	-31.62	35.7	25.7	-24.8	323.2
-42	0.007	-43.20	0.0000	-49.22	4.7	3.5	-3.1	344.9
-40	0.045	-27.00	0.0005	-33.02	30.4	23.3	-19.5	328.5
-38	0.099	-20.10	0.0024	-26.12	67.2	53.0	-41.4	306.6
-36	0.151	-16.40	0.0057	-22.42	102.9	83.2	-60.5	287.5
-34	0.195	-14.20	0.0095	-20.22	132.5	109.9	-74.1	273.9
-32	0.229	-12.80	0.0131	-18.82	155.7	132.1	-82.5	265.5
-30	0.245	-12.20	0.0151	-18.22	166.9	144.5	-83.4	264.6
-28	0.243	-12.30	0.0147	-18.32	165.0	145.6	-77.4	270.6
-26	0.219	-13.20	0.0120	-19.22	148.7	133.7	-65.2	282.8
-24	0.176	-15.10	0.0077	-21.12	119.5	109.2	-48.6	299.4
-22	0.111	-19.10	0.0031	-25.12	75.4	69.9	-28.2	319.8
-20	0.027	-31.40	0.0002	-37.42	18.3	17.2	-6.3	341.7
-18	0.074	-22.60	0.0014	-28.62	50.4	47.9	-15.6	332.4
-16	0.188	-14.50	0.0089	-20.52	128.0	123.1	-35.3	312.7
-14	0.313	-10.10	0.0244	-16.12	212.5	206.2	-51.4	296.6
-12	0.447	-7.00	0.0499	-13.02	303.6	297.0	-63.1	284.9
-10	0.582	-4.70	0.0847	-10.72	395.7	389.7	-68.7	279.3
-8	0.708	-3.00	0.1253	-9.02	481.2	476.5	-67.0	281.0
-6	0.822	-1.70	0.1690	-7.72	558.9	555.9	-58.4	289.6
-4	0.912	-0.80	0.2079	-6.82	619.9	618.4	-43.2	304.8

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-2	0.977	-0.20	0.2387	-6.22	664.3	663.9	-23.2	324.8
0	1.000	0.00	0.2500	-6.02	679.8	679.8	0.0	348.0
2	0.977	-0.20	0.2387	-6.22	664.3	663.9	23.2	371.2
4	0.912	-0.80	0.2079	-6.82	619.9	618.4	43.2	391.2
6	0.822	-1.70	0.1690	-7.72	558.9	555.9	58.4	406.4
8	0.708	-3.00	0.1253	-9.02	481.2	476.5	67.0	415.0
10	0.582	-4.70	0.0847	-10.72	395.7	389.7	68.7	416.7
12	0.447	-7.00	0.0499	-13.02	303.6	297.0	63.1	411.1
14	0.313	-10.10	0.0244	-16.12	212.5	206.2	51.4	399.4
16	0.188	-14.50	0.0089	-20.52	128.0	123.1	35.3	383.3
18	0.074	-22.60	0.0014	-28.62	50.4	47.9	15.6	363.6
20	0.027	-31.40	0.0002	-37.42	18.3	17.2	6.3	354.3
22	0.111	-19.10	0.0031	-25.12	75.4	69.9	28.2	376.2
24	0.176	-15.10	0.0077	-21.12	119.5	109.2	48.6	396.6
26	0.219	-13.20	0.0120	-19.22	148.7	133.7	65.2	413.2
28	0.243	-12.30	0.0147	-18.32	165.0	145.6	77.4	425.4
30	0.245	-12.20	0.0151	-18.22	166.9	144.5	83.4	431.4
TFC2K475.DAT					MAX:	679.8m	-83.4m	264.6m