

Exhibit IV - Page 3, continued  
 RSS CALCULATIONS BASED ON INCLUSION OF WWRV  
 LICENSED AND PROPOSED FACILITIES  
 SEPTEMBER 24, 2013 CDBS

WMLT Dublin, GA  
 Coordinates : 32-33-50.0 N 82-52-00.0 W  
 Frequency : 1330  
 Initial PWR: 0.500  
 Initial Inv Field: 210.82 mV/M RMS

SITE INFO	CITY	ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%	RSS INT75%
WHRZ 1340 US	HOLM	AL 437.6	C	481.1	43.9	98.3	306.2	17.2	27.6	286.4	0.142855	0.818	0.000	0.000
WGRV 1340 US	GREENEVILLE	TN 400.9	C	448.0	45.5	180.3	296.1	18.8	29.9	257.7	0.157386	0.811	0.000	0.000
KINE 1330 US	KINGSVILLE	TX 1536.3	B	1549.3	40.9	65.4	164.4	1.9	5.4	164.2	0.023539	0.773	0.000	0.000
HJND 1330 CO	CARTERSVILLE	GA 2861.5	C	2569.3	32.9	344.1	309.5	0.0	0.0	309.5	0.012462	0.771	0.000	0.000
WPMH 1340 US	CULIMAN	AL 412.5	C	458.4	44.4	114.7	296.3	18.3	29.1	252.2	0.152870	0.771	0.000	0.000
XEOC 1330 MX	SANTO TOMAS OXC	CS 1995.5	B	2205.5	35.6	26.7	215.2	0.0	2.3	215.2	0.017732	0.763	0.000	0.000
XEEV 1330 MX	IZUCAR DE MATAM	PV 2197.4	B	2206.5	36.3	42.1	258.9	0.0	1.2	258.9	0.014640	0.754	0.000	0.000
WKGB 1340 US	HINDMAN	KY 630.0	C	566.4	46.0	178.6	394.3	14.0	23.1	339.6	0.023639	0.746	0.000	0.000
WTYS 1340 US	WATERLOO	IA 1376.2	B	1390.7	48.4	140.1	305.7	24.9	37.8	174.6	0.113569	0.746	0.000	0.000
WBNJ 1340 US	MARLINA	NY 592.2	C	360.7	42.7	47.6	157.4	2.9	6.7	157.4	0.023639	0.731	0.000	0.000
WBEN 1340 US	BOWLING GREEN	WI 300.2	C	625.6	45.8	145.4	421.6	12.3	20.6	381.6	0.095770	0.726	0.000	0.000
WBHU 1330 US	SHEBOYGAN	WI 1310.8	B	1325.9	49.1	82.8	144.7	3.3	7.4	144.1	0.025205	0.726	0.000	0.000
WKMG 1330 US	LOS ANGELES	CA 3284.7	B	3290.8	44.1	159.5	698.1	0.0	0.0	698.1	0.005089	0.711	0.000	0.000
WLSG 1340 US	COLUMBIA	TN 513.3	C	550.9	45.1	130.1	309.0	14.5	23.8	294.4	0.116641	0.687	0.000	0.000
WMBR 1340 US	WILMINGTON	NC 492.1	C	531.2	44.7	249.2	289.2	15.2	24.8	275.8	0.12387	0.681	0.000	0.000
WMBL 1340 US	FLORENCE	AL 508.6	C	546.5	44.7	117.9	300.9	14.7	24.0	287.0	0.118332	0.679	0.000	0.000
XENP 1330 MX	OCCOTLAN	JA 2394.3	B	2402.6	37.1	51.3	284.5	0.0	0.3	284.5	0.012222	0.646	0.000	0.000
WVFL 1340 US	CLERMONT	FL 466.3	C	498.2	41.7	346.2	241.0	16.5	26.6	228.9	0.136190	0.624	0.000	0.000
WTTN 1340 US	SEBRING	FL 579.0	C	612.6	41.2	345.2	316.0	12.7	21.1	303.2	0.101278	0.614	0.000	0.000
WTLN 1340 US	CLEARWATER	FL 510.5	C	548.3	41.4	359.3	269.7	14.6	23.9	258.1	0.118828	0.613	0.000	0.000
WMLB 1340 US	ASHLAND	VA 656.8	C	666.6	46.6	182.2	405.8	10.9	18.5	370.4	0.082134	0.608	0.000	0.000
WMLB 1340 US	PULASKI	VA 535.4	C	571.5	46.0	201.4	288.0	13.8	22.8	276.1	0.108630	0.605	0.000	0.000
WWRVP 1330 US	NEW YORK	NY 1210.9	B	1227.3	48.1	223.3	100.5	4.0	8.4	99.0	0.030101	0.596	0.000	0.000

Exhibit IV - Page 4  
 RSS CALCULATIONS BASED ON INCLUSION OF WWRV  
 LICENSED AND PROPOSED FACILITIES  
 SEPTEMBER 24, 2013 CDBS

STATION	CITY	ST DIST	CLASS	SLANT DIST	GEOWAY MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%	RSS LIMIT 25%
WWRV 1330 US	GREENVILLE	SC 332.8	B	388.3	46.9	53.3	446.2	22.6	34.9	250.3	0.191831	9.603	9.603	
WHRH 1330 US	EVANSVILLE	IN 738.9	B	765.5	48.5	100.1	261.9	9.4	16.3	256.3	0.066819	3.424	10.196	
WWRW 1330 US	NEW YORK	NY 669.5	B	698.7	50.2	226.1	211.0	10.6	18.1	200.1	0.074559	2.984	10.623	
WSSS 1330 US	HAYES DE GRACE	MD 438.4	B	481.9	49.4	222.4	106.1	17.2	27.6	88.6	0.136095	2.411	0.000	0.000
WMLD 1330 US	WATERLOO	IA 1276.7	B	1292.2	50.6	116.4	369.6	3.6	7.7	363.8	0.024824	1.806	0.000	0.000
WJWX 1330 US	FORT PIERCE	FL 1021.3	B	1040.7	43.3	4.7	198.1	5.7	10.9	195.4	0.044264	1.730	0.000	0.000
WYUU 1330 US	LAGUNITAS	CA 3052.8	B	3059.3	34.9	345.7	978.6	0.0	0.0	978.6	0.008505	1.665	0.000	0.000
WBRD 1330 US	SPRINGVILLE	NY 658.1	B	687.8	50.8	185.8	96.9	10.9	18.5	103.3	0.075158	1.553	0.000	0.000
WRLI 1340 US	LENOIR	NC 206.3	C	287.4	47.5	66.8	309.7	34.4	48.7	234.0	0.291857	1.366	0.000	0.000
WADL 1340 US	WADESBORO	NC 182.2	C	277.4	47.0	16.6	285.4	36.4	50.8	222.3	0.306591	1.363	0.000	0.000
WHPJ 1340 US	HOPEWELL	VA 203.3	C	285.2	48.3	248.5	289.3	34.8	49.1	229.9	0.294197	1.346	0.000	0.000
WCOU 1340 US	GREENVILLE	NC 215.6	C	294.1	47.0	301.3	305.8	33.2	47.5	237.9	0.282765	1.346	0.000	0.000
WVHI 1340 US	ROCK HILL	SC 230.4	C	305.1	47.4	37.9	318.6	31.5	45.5	245.9	0.269065	1.323	0.000	0.000
KSSS 1330 US	WICHITA	KS 1580.8	B	1593.4	48.2	89.0	527.3	1.6	5.0	352.2	0.018486	1.302	0.000	0.000
WVAS 1320 US	PITTSBURGH	PA 432.4	B	476.5	49.8	174.4	459.4	17.4	27.9	469.4	0.137682	1.293	0.000	0.000
WBLB 1340 US	PULASKI	VA 130.5	C	238.8	48.1	112.6	288.0	47.5	61.1	172.0	0.375092	1.290	0.000	0.000
WNON 1340 US	MONTGOMERY	WV 240.9	C	313.1	48.6	135.8	305.8	30.3	44.2	248.6	0.257754	1.282	0.000	0.000
WJGR 1340 US	LIDBERTON	NC 226.5	C	302.2	46.9	350.4	346.0	31.9	46.0	233.0	0.272722	1.271	0.000	0.000
WENN 1340 US	ERIE	PA 600.9	B	633.3	50.6	14.9	104.7	12.1	20.3	70.2	0.086683	1.218	0.000	0.000
WSSC 1340 US	SUMTER	NC 83.5	C	367.7	46.5	293.8	309.0	24.3	70.5	129.5	0.427203	1.106	0.000	0.000
WCBQ 1340 US	OXFORD	NC 308.5	C	216.7	47.7	23.8	304.2	59.7	10.3	163.3	0.033836	1.105	0.000	0.000
WHLI 1340 US	SHEBOYGAN	WI 1058.5	B	1077.3	51.3	135.5	164.8	5.4	10.3	163.3	0.215963	1.095	0.000	0.000
WISG 1340 US	WILMINGTON	NC 296.2	C	357.4	46.7	333.5	289.2	25.2	38.2	262.0	0.007713	1.067	0.000	0.000
WYPU 1330 US	RUBIO	NC 293.8	C	3299.8	33.6	348.4	692.0	0.0	0.0	692.0	0.075394	1.056	0.000	0.000
WWRV 1330 US	NEW YORK	NY 664.9	B	694.3	50.1	159.1	354.1	10.7	18.3	70.1	0.366289	1.037	0.000	0.000
WREY 1340 US	COVINGTON	VA 117.9	C	243.0	48.4	226.6	73.1	45.9	59.7	141.6	0.007463	1.033	0.000	0.000
WYOO 1330 US	COVINGTON	VA 3305.9	C	3312.0	34.3	340.0	692.0	0.0	0.0	692.0	0.007398	1.024	0.000	0.000
HONR 1330 US	CANABOZO	SC 304.7	C	341.0	33.0	350.0	692.0	0.0	0.0	692.0	0.193684	1.012	0.000	0.000
WNCB 1340 US	S GILF I	KY 347.2	C	383.5	48.2	103.1	384.3	23.0	35.4	261.1	0.180795	1.011	0.000	0.000
WCVI 1340 US	HINDMAN	KY 347.2	C	400.7	48.7	125.6	305.8	21.7	33.8	279.5	0.280266	0.990	0.000	0.000
WVCV 1340 US	ORANGE	VA 216.7	C	294.9	48.7	212.7	305.8	33.1	47.3	176.5	0.182710	0.984	0.000	0.000
WHPM 1340 US	MARTINSBURG	WV 341.9	C	396.1	49.3	202.2	305.8	22.1	34.2	269.4	0.205975	0.970	0.000	0.000
WBRV 1340 US	GREENSBURG	TN 309.4	C	368.4	47.6	79.9	296.1	24.2	37.0	235.4	0.155334	0.943	0.000	0.000
WELG 1340 US	GREENSBURG	GA 402.3	C	449.3	47.0	61.4	355.2	18.8	29.8	303.6	0.015248	0.925	0.000	0.000
XERC 1330 US	MOUNTAIN CITY	NC 1994.6	B	2004.6	39.9	27.4	303.2	0.0	2.3	303.2	0.149566	0.916	0.000	0.000
WGAN 1340 US	MERIDA	TN 413.0	C	458.9	47.5	78.6	354.1	18.3	29.1	305.5	0.055766	0.902	0.000	0.000
WTRX 1330 US	XNOXVILLE	TN 793.9	B	818.7	51.0	151.7	87.6	8.5	15.0	80.9	0.161500	0.856	0.000	0.000
WNOB 1340 US	FLINT	MI 381.9	C	431.1	49.2	141.6	286.5	19.8	31.2	289.4	0.146988	0.851	0.000	0.000
WQSC 1340 US	ATLANTA	GA 424.0	C	468.8	46.0	6.4	320.2	17.8	28.4	226.9	0.135944	0.844	0.000	0.000
WYCB 1340 US	CHARLESTON	DC 337.2	C	392.1	49.1	220.0	353.6	22.4	34.6	226.9	0.130432	0.813	0.000	0.000
WCAU 1340 US	WASHINGTON	GA 466.2	C	507.3	46.3	49.4	353.6	16.1	26.1	311.7	0.149440	0.810	0.000	0.000
WYMF 1340 US	ATLANTA	GA 417.5	C	462.9	46.5	31.3	291.8	18.1	28.8	271.1	0.149440	0.810	0.000	0.000
CHLD 1330 CA	THELFORD MINES	QC 1246.3	B	1262.2	52.8	215.3	175.2	3.8	8.0	173.8	0.023231	0.808	0.000	0.000

**Exhibit IV - Page 5**  
**RSS CALCULATIONS BASED ON INCLUSION OF WMRV**  
**LICENSED AND PROPOSED FACILITIES**  
**SEPTEMBER 24, 2013 CDBS**

CALL FREQ	COUNTY	CITY	ST DIST	CLASS	STANT DIST	GEOMG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%	RSS LIMIT 25%
WYRU 1330 VE		LAGUNILLAS	2969.8	B	2976.5	34.0	339.3	978.6	0.0	0.0	978.6	0.009225	1.806	1.806	
WYRU 1330 VE		DANVILLE	385.8	B	388.1	46.9	235.1	467.7	22.6	34.9	188.3	0.197831	1.590	2.406	
WYRU 1330 VE		LENOIR	243.9	C	243.9	46.5	214.4	309.7	45.5	59.4	188.3	0.164646	1.374	2.770	
WYRU 1330 VE		SUMNER	296.1	C	296.1	45.6	298.7	309.0	32.9	47.1	238.3	0.280680	1.338	2.770	
WYRU 1330 VE		AUGUSTA	156.3	C	156.3	45.6	345.6	291.8	42.3	56.4	193.6	0.344994	1.336	3.076	
WYRU 1330 VE		WICHITA	1375.0	B	1375.0	47.1	99.0	270.6	2.9	6.9	265.2	0.025146	1.334	0.000	
WYRU 1330 VE		WADESBORO	216.7	C	216.7	46.1	267.8	285.4	33.1	47.3	232.5	0.282266	1.313	0.000	
WYRU 1330 VE		ROCK HILL	128.7	C	128.7	44.8	264.1	318.6	47.9	61.4	174.0	0.376802	1.311	0.000	
WYRU 1330 VE		DURHAM	258.0	B	258.0	44.8	9.0	64.9	28.6	42.2	36.7	0.245614	1.311	0.000	
WYRU 1330 VE		MERIDA	1692.4	B	1704.2	38.9	23.0	303.2	1.0	4.2	303.2	0.021045	1.276	0.000	
WYRU 1330 VE		CLEVELAND	224.0	C	224.0	46.1	98.2	328.1	32.2	46.3	224.6	0.275356	1.237	0.000	
WYRU 1330 VE		CEDARTOWN	274.8	C	274.8	45.5	69.8	328.3	27.0	40.4	262.9	0.233320	1.221	0.000	
WYRU 1330 VE		KNOXVILLE	186.1	C	186.1	46.5	130.7	354.1	37.3	51.7	192.7	0.313111	1.207	0.000	
WYRU 1330 VE		ATLANTA	219.8	C	219.8	45.4	55.4	275.2	32.7	46.9	212.8	0.279227	1.189	0.000	
WYRU 1330 VE		RUBIO	197.0	C	197.0	32.7	342.6	692.0	0.0	0.0	692.0	0.008427	1.166	0.000	
WYRU 1330 VE		LYONS	293.8	C	293.8	44.7	358.4	305.8	25.4	38.5	264.6	0.218501	1.156	0.000	
WYRU 1330 VE		LUMBERTON	113.2	C	113.2	46.0	276.2	346.0	24.0	36.6	276.5	0.204928	1.133	0.000	
WYRU 1330 VE		S CITL 1	3290.0	C	3296.1	32.1	344.4	692.0	0.0	0.0	692.0	0.009819	1.124	0.000	
WYRU 1330 VE		NEW YORK	997.1	B	1017.0	49.3	140.5	140.5	6.0	11.2	138.8	0.040448	1.123	0.000	
WYRU 1330 VE		PULASKI	286.7	C	286.7	47.1	211.5	288.0	26.0	39.2	247.9	0.222469	1.103	0.000	
WYRU 1330 VE		CHARLESTON	378.0	C	378.0	45.0	315.6	312.2	23.4	36.0	273.8	0.200495	1.098	0.000	
WYRU 1330 VE		CHARLOTTE	3259.5	C	3265.6	33.5	334.4	692.0	0.0	0.0	692.0	0.007895	1.093	0.000	
WYRU 1330 VE		WINSTON-SALEM	238.5	C	238.5	46.7	236.0	384.6	30.6	44.5	204.0	0.261872	1.068	0.000	
WYRU 1330 VE		ERIE	820.4	B	844.4	49.6	195.5	113.2	8.1	14.4	96.0	0.055160	1.059	0.000	
WYRU 1330 VE		HINDMAN	280.0	C	280.0	47.2	169.1	394.3	26.6	39.8	225.9	0.227372	1.027	0.000	
WYRU 1330 VE		GREENEVILLE	151.1	C	151.1	46.6	165.1	286.1	43.3	57.3	144.1	0.351612	1.013	0.000	
WYRU 1330 VE		PLUM	98.8	B	98.8	50.0	172.9	115.1	7.0	12.7	109.6	0.046141	1.011	0.000	
WYRU 1330 VE		WINCHESTER	326.1	C	326.1	46.1	95.1	282.5	22.4	34.7	264.9	0.139649	1.010	0.000	
WYRU 1330 VE		WATERLOO	434.6	B	434.6	49.6	131.5	174.2	4.1	8.5	171.3	0.028980	0.993	0.000	
WYRU 1330 VE		BOWLING GREEN	434.6	B	434.6	47.0	122.2	421.6	17.3	27.8	345.5	0.141639	0.979	0.000	
WYRU 1330 VE		COLUMBUS	356.5	C	356.5	44.7	40.8	286.1	21.2	33.0	270.8	0.179779	0.974	0.000	
WYRU 1330 VE		RICHMOND	160.1	C	160.1	47.4	151.5	304.2	21.0	32.7	276.0	0.175695	0.970	0.000	
WYRU 1330 VE		SHERBOGAN	1085.9	B	1104.1	50.3	153.4	144.9	5.1	10.0	143.7	0.033714	0.969	0.000	
WYRU 1330 VE		COVINGTON	390.6	C	390.6	47.5	214.7	354.1	19.3	30.6	300.2	0.160083	0.961	0.000	
WYRU 1330 VE		ASHLAND	401.9	C	401.9	47.8	177.7	405.8	18.8	29.8	307.8	0.154426	0.951	0.000	
WYRU 1330 VE		NEW YORK	993.0	B	1012.9	49.2	230.6	118.1	6.0	11.3	116.5	0.040775	0.950	0.000	
WYRU 1330 VE		TITTON	389.0	C	389.0	44.3	14.4	305.8	19.4	30.7	281.3	0.163485	0.920	0.000	
WYRU 1330 VE		MONTGOMERY	382.4	C	382.4	47.7	195.4	304.2	19.8	31.1	280.2	0.163796	0.918	0.000	
WYRU 1330 VE		OXFORD	383.4	C	383.4	46.8	246.2	304.2	19.7	31.1	279.1	0.164378	0.918	0.000	
WYRU 1330 VE		AL	297.8	C	297.8	45.0	60.9	307.4	19.0	30.1	283.2	0.159054	0.901	0.000	
WYRU 1330 VE		SYLACAUGA	429.0	C	429.0	46.2	99.9	309.0	17.6	28.1	287.8	0.144685	0.833	0.000	
WYRU 1330 VE		COLUMBIA	429.0	C	429.0	35.5	236.5	309.5	0.0	0.5	309.5	0.013279	0.822	0.000	
WYRU 1330 VE		SPRINGDALE	999.3	B	999.3	49.9	12.1	309.5	6.9	12.7	88.6	0.046243	0.819	0.000	
WYRU 1330 VE		SPRINGVILLE	1330.0	C	1330.0	45.8	280.9	289.2	18.2	29.0	270.2	0.150908	0.815	0.000	
WYRU 1330 VE		WILMINGTON	415.0	C	415.0	45.8	280.9	289.2	18.2	29.0	270.2	0.150908	0.815	0.000	



**Exhibit IV - Page 6**  
**RSS CALCULATIONS BASED ON INCLUSION OF WWRV**  
**LICENSED AND PROPOSED FACILITIES**

**SEPTEMBER 24, 2013 CDBS**

WSSS Havre de Grace, MD  
 Coordinates : 39-33-55.0 N 76-07-08.0 W  
 Frequency : 1330  
 Initial PWR: 0.500  
 Initial Inv Field: 249.45 mV/M RMS  
 SITE INFO  
 CALL PRQ: COUNTY

CALL PRQ	COUNTY	CITY	ST DIST	CLASS	SLANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%	RSS LIMIT 25%
WWRV 1330 US		NEW YORK	NY 232.1	B	306.4	51.7	230.5	138.2	31.3	45.3	100.9	0.256480	5.218	5.218	
WFRN 1330 US		BRIS	PA 425.6	B	470.2	52.1	128.1	230.8	17.7	28.4	189.0	0.134827	5.077	7.280	
WWRV 1330 US		NEW YORK	NY 228.0	B	303.3	51.6	232.1	127.3	31.7	45.8	86.5	0.262379	4.644	8.635	
WSPD 1330 US		SPRINGVILLE	NY 390.7	B	438.9	52.4	145.7	153.9	19.3	30.6	137.6	0.146640	4.090	0.000	
WWRD 1330 US		GREENVILLE	SC 765.0	B	790.7	48.5	45.0	326.5	8.9	15.6	305.0	0.063264	3.859	0.000	10.305
WFRN 1330 US		BRIS	PA 425.6	B	470.2	52.1	128.1	94.3	17.7	28.4	84.5	0.134781	2.270	0.000	
WRRX 1330 US		FLINT	MI 734.2	B	761.0	52.6	118.5	160.5	9.4	16.4	147.9	0.059781	1.769	0.000	
KRLO 1330 US		WATERLOO	IA 1390.1	B	1404.4	52.3	98.0	433.6	2.8	6.6	430.0	0.019353	1.664	0.000	
MOIS 1320 US		PITTSBURGH	PA 337.8	B	392.6	51.4	106.3	442.4	22.3	34.5	421.4	0.179941	1.517	0.000	
WHIT 1330 US		EVANSVILLE	IN 1007.6	B	1027.2	50.1	76.8	195.8	2.7	6.5	195.2	0.025522	1.509	0.000	
MONK 1330 US		FORT PIERCE	FL 1402.3	B	1416.5	44.8	152.4	281.6	0.0	0.0	291.2	0.066915	1.353	0.000	
YTVU 1330 VE		LAGUNITAS	CA 303.9	B	3309.9	36.3	352.4	978.6	0.0	0.0	978.6	0.006915	1.353	0.000	
MEPM 1340 US		MARTINSBURG	WV 160.6	B	256.5	50.9	85.4	305.8	41.5	55.7	195.1	0.035827	1.310	0.000	
CLLD 1330 CA		THEPPORD MINES	QC 818.9	B	842.9	54.3	209.7	147.7	8.1	14.4	142.0	0.046130	1.250	0.000	
WMPA 1340 US		WILLIAMSPORT	PA 189.9	C	282.7	51.8	157.5	289.7	32.8	49.6	215.7	0.289838	1.240	0.000	
WTRN 1340 US		TYRONE	PA 218.9	C	296.5	51.5	123.2	228.8	35.9	51.2	220.7	0.271608	1.240	0.000	
WYCK 1340 US		PLAIN	PA 189.0	C	275.2	51.8	187.6	273.6	36.9	51.2	201.7	0.301266	1.215	0.000	
WRTM 1330 US		DANVILLE	VA 438.4	B	481.9	49.4	40.4	46.1	17.2	27.6	43.4	0.136095	1.181	0.000	
WHAP 1340 US		HOPWELL	VA 272.9	C	338.3	49.8	77.0	289.3	27.2	40.6	255.2	0.228711	1.167	0.000	
KXSS 1330 US		MICHITA	KS 1842.1	B	1852.9	50.0	22.0	431.5	0.3	3.2	431.5	0.012652	1.092	0.000	
WALL 1340 US		MIDDLETON	NY 253.7	C	323.1	51.9	214.6	307.4	29.0	42.7	221.6	0.238321	1.056	0.000	
WHAT 1340 US		PHILADELPHIA	PA 91.6	C	220.0	51.2	328.3	320.3	57.3	68.8	124.6	0.418717	1.032	0.000	
WRCA 1330 US		ORANGE	VA 226.4	C	302.1	50.3	49.3	305.8	31.9	46.0	183.4	0.267897	0.983	0.000	
WRVA 1330 US		WATERLOO	MA 512.9	B	550.5	52.4	235.5	53.5	14.5	23.8	46.9	0.103626	0.973	0.000	
WRAM 1340 US		READING	PA 86.1	C	217.7	51.3	191.5	241.4	58.9	70.0	111.5	0.420180	0.937	0.000	
WRBY 1340 US		GOVINGTON	VA 390.6	C	438.8	50.0	58.0	354.1	19.3	30.6	300.2	0.155498	0.934	0.000	
WRBC 1340 US		NEW HAVEN	CT 329.6	C	385.5	51.9	235.4	289.7	22.8	35.2	246.8	0.183295	0.905	0.000	
WHBL 1330 US		SHEBOKEAN	WI 1068.7	B	1087.2	52.9	111.6	145.1	22.8	58.5	143.6	0.030753	0.883	0.000	
WRID 1340 US		ATLANTIC CITY	NJ 144.6	C	246.8	52.6	278.9	346.3	44.5	58.5	283.8	0.153637	0.872	0.000	
WMLP 1340 US		AUBURN	NY 378.5	C	428.1	50.9	173.9	312.2	20.0	31.4	123.9	0.006283	0.870	0.000	
YVJY 1330 VE		RUBIO	CA 353.0	C	3568.6	35.1	354.5	692.0	0.0	0.0	692.0	0.006279	0.869	0.000	
YVOJ 1330 VE		CALABOZO	VE 313.5	C	3519.2	35.8	347.3	692.0	0.0	0.0	692.0	0.006279	0.869	0.000	
WERK 1340 US		PITTSFIELD	MA 402.7	C	449.6	52.4	218.2	346.0	18.8	29.8	301.5	0.142948	0.862	0.000	
HNRK 1330 CO		S GFL 1	3684.8	C	3690.2	34.5	355.8	692.0	0.0	0.0	692.0	0.006024	0.834	0.000	
NRGO 1340 US		OXFORD	NC 421.4	B	466.5	49.3	330.0	304.2	17.9	28.6	283.4	0.143264	0.812	0.000	
WATR 1320 US		WATERBURY	CT 340.7	B	395.0	52.0	231.0	271.5	22.1	34.3	227.9	0.176245	0.803	0.000	
WQWT 1340 US		GREENVILLE	NC 482.7	B	494.9	49.0	107.7	365.8	16.6	25.8	265.8	0.131605	0.756	0.000	
WQOL 1340 US		WINSTON-SALEM	NC 531.5	B	567.9	51.1	41.9	364.6	55.2	72.2	90.7	0.406462	0.737	0.000	
WMOX 1340 US		CLARKSBURG	WV 475.4	C	515.7	50.2	69.4	305.8	15.8	25.6	289.2	0.121043	0.700	0.000	
WKKX 1340 US		CLARKSBURG	WV 361.7	C	413.3	50.8	83.8	384.6	20.9	32.6	206.8	0.168204	0.696	0.000	
WTVL 1340 US		LOCKPORT	NY 455.8	C	497.8	52.7	201.8	288.8	16.5	26.6	286.6	0.120814	0.693	0.000	
WENT 1340 US		GLOVERSVILLE	NY 411.9	C	457.9	52.7	150.6	288.8	18.3	29.2	249.6	0.137993	0.689	0.000	
WGMT 1340 US		ASHLAND	KY 572.6	C	606.6	50.3	75.7	405.8	12.8	21.4	357.4	0.093425	0.668	0.000	

Exhibit IV - Page 7  
 RSS CALCULATIONS BASED ON INCLUSION OF WWRV  
 LICENSED AND PROPOSED FACILITIES  
 SEPTEMBER 24, 2013 CDBS

WVHI Evansville, IN  
 Coordinates : 38-03-12.0 N 87-35-40.0 W  
 Frequency : 1330  
 Initial PWR: 1.000  
 Initial Inv Field: 121.87 mV/M RMS

SITE INFO	CITY	ST DIST	CLASS SLANT DIST	GEORGIA MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%	RSS LIMIT 25%
WYRD 1330 US	GREENVILLE	SC 593.2	B	616.5	47.5	309.1	351.0	12.5	21.0	309.5	0.095988	5.942	5.942
KNSB 1330 US	WICHITA	KS 847.5	B	870.8	48.4	84.5	389.7	7.7	13.8	349.2	0.054129	7.043	7.043
KYOL 1330 US	LAFAYETTE	LA 960.4	B	981.0	44.8	24.1	292.1	6.4	11.8	282.7	0.047702	2.697	7.541
WFNN 1330 US	ERIE	PA 778.4	B	803.7	51.1	238.3	222.9	8.7	15.3	219.0	0.057319	2.511	7.948
WMLD 1330 US	WATERLOO	IA 630.6	B	661.5	50.9	139.5	155.9	11.4	19.3	155.7	0.080071	2.493	8.330
WHEI 1330 US	SHEBOYGAN	WI 630.2	B	661.2	51.6	178.9	164.3	11.4	19.3	152.7	0.078387	2.395	8.667
WWRV 1330 US	NEW YORK	NY 1205.3	B	1221.8	50.9	259.1	371.3	4.1	8.5	369.6	0.027289	2.017	0.000
WMLK 1330 US	GREENVILLE	MS 601.5	B	633.9	48.4	227.2	107.5	12.1	20.3	95.4	0.093237	1.779	0.000
WBLX 1330 US	BRADFORD	IN 133.4	B	240.4	45.4	227.2	304.2	46.9	60.5	184.2	0.370743	1.366	0.000
WSPQ 1330 US	SPRINGVILLE	NY 902.1	B	924.0	51.4	239.8	148.2	7.0	12.8	147.3	0.044416	0.000	0.000
WSDQ 1330 US	DECATUR	IL 230.6	B	308.3	48.7	147.7	978.6	31.4	45.5	243.4	0.006351	1.243	0.000
WYVU 1330 VE	LAGUNITILLAS	CA 3503.2	B	3509.0	48.3	334.9	978.6	0.0	0.0	978.6	0.122625	1.240	0.000
WGOV 1320 US	KINGSFORD	TN 481.8	B	521.6	49.5	291.8	544.5	15.5	25.3	293.7	0.236429	1.228	0.000
WWRM 1340 US	COVINGTON	TX 290.1	B	352.4	46.6	248.6	342.3	25.7	38.8	261.4	0.230127	1.203	0.000
WJAS 1320 US	COLUMBIA	TX 275.8	B	340.7	47.6	350.2	309.0	6.9	16.9	885.8	0.067121	1.189	0.000
WTKX 1330 US	PITTSBURGH	PA 714.5	B	742.0	50.4	250.3	945.2	9.8	19.0	75.1	0.076985	1.157	0.000
WEXK 1340 US	PLINT	MI 640.4	B	670.9	51.4	212.7	89.3	11.2	15.3	97.9	0.217122	1.141	0.000
WFRN 1330 US	RICHMOND	KY 290.9	B	353.0	48.8	278.4	304.2	25.7	38.7	262.8	0.057319	1.123	0.000
WRRV 1340 US	WUNCIE	IN 778.4	B	803.7	51.1	219.9	99.7	8.7	15.3	97.9	0.206461	1.077	0.000
WRRV 1340 US	NEW YORK	NY 1204.6	B	1221.1	50.8	259.5	185.8	24.8	8.5	184.3	0.027357	1.008	0.000
XEPC 1330 MX	SALMA	MO 349.3	C	402.5	48.5	81.0	312.2	4.1	33.6	279.2	0.180664	1.006	0.000
KXKK 1330 US	MERIDA	CA 1905.6	B	1916.1	46.2	71.8	748.9	0.0	2.8	748.9	0.006543	0.980	0.000
WOPD 1340 US	LOS ANGELES	CA 2787.8	B	2795.0	47.5	337.7	292.9	21.8	33.8	266.4	0.183253	0.976	0.000
WLOK 1340 US	WINCHESTER	TN 346.3	C	399.9	47.3	32.8	403.9	19.3	30.5	302.5	0.159920	0.967	0.000
WOBJ 1320 US	MEMPHIS	TN 331.5	C	439.7	47.3	233.9	559.7	12.6	21.0	530.0	0.090375	0.958	0.000
WISN 1340 US	OBERLIN	OH 582.9	B	616.3	50.7	241.1	241.1	26.3	39.5	213.8	0.223518	0.956	0.000
WISN 1340 US	POPULAR BLUFF	MO 283.7	C	347.1	48.1	58.9	300.9	20.9	32.6	273.3	0.174850	0.944	0.000
WISN 1340 US	FLORENCE	AL 382.1	C	413.6	47.2	1.0	354.1	19.0	30.1	301.9	0.156289	0.944	0.000
WISN 1340 US	KNOXVILLE	TN 397.3	C	444.8	47.5	307.0	324.1	18.7	29.7	293.4	0.154038	0.935	0.000
WISN 1340 US	CLEVELAND	OH 403.6	C	450.5	48.7	282.7	304.3	18.3	29.2	304.5	0.148635	0.905	0.000
WISN 1340 US	HINDMAN	KY 411.7	C	457.7	48.7	337.6	307.8	17.7	27.6	284.0	0.137651	0.880	0.000
WISN 1340 US	SPRINGFIELD	OH 390.2	C	438.5	49.9	238.6	305.6	48.1	61.5	332.4	0.136412	0.880	0.000
WISN 1340 US	ASHLAND	IL 128.0	C	237.5	48.7	278.6	405.8	17.2	27.6	318.4	0.137956	0.879	0.000
WISN 1340 US	ASHHART	IN 426.4	C	482.1	49.2	265.5	405.6	17.7	28.3	277.9	0.157053	0.873	0.000
WISN 1340 US	MEXICO	IN 390.8	C	439.0	50.7	107.1	303.5	19.3	30.6	277.9	0.092955	0.836	0.000
WISN 1340 US	LANESING	MI 586.1	B	600.3	51.2	307.2	487.8	13.0	0.0	449.7	0.005984	0.828	0.000
WISN 1340 US	RUBID	MI 3707.6	C	3713.0	34.4	307.8	692.0	0.0	0.0	692.0	0.005851	0.810	0.000
WISN 1340 US	S GIL	TX 3796.3	C	3801.6	33.7	339.5	692.0	0.0	0.0	692.0	0.005851	0.810	0.000
WISN 1340 US	BOWLING GREEN	KY 153.6	C	312.0	48.4	319.4	421.6	42.8	56.9	114.5	0.348212	0.798	0.000
WISN 1340 US	CLINTON	IA 478.1	C	518.2	50.6	151.4	357.5	15.7	25.5	331.9	0.118109	0.781	0.000
WISN 1340 US	BATESVILLE	AR 441.8	C	484.9	47.5	53.3	304.0	17.0	27.4	285.1	0.138069	0.787	0.000



Exhibit IV - Page 8  
 RSS CALCULATIONS BASED ON INCLUSION OF WMRV  
 LICENSED AND PROPOSED FACILITIES  
 SEPTEMBER 24, 2013 CDBS

WPNN Erie, PA  
 Coordinates : 41-59-32.0 N 80-01-44.0 W  
 Frequency : 1330  
 Initial PWR: 1.000  
 Initial Inv Field: 354.10 mV/M RMS

STATION	FREQ	COUNTRY	CITY	ST DIST	CLASS	STANT DIST	GEOMAG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SWAVE FLD	LIMITATION	RSS LIMIT 50%	RSS LIMIT 25%
WSPQ 1330 US			SPRINGVILLE	NY 124.0	B	235.3	53.5	243.5	155.0	49.0	62.3	83.1	0.366820	6.125	6.125	
WRDZ 1330 US			GREENVILLE	SC 820.4	B	844.4	49.6	14.0	513.3	8.1	14.4	524.2	0.055160	5.783	8.424	
WSSS 1330 US			HAVRE DE GRACE	MD 425.6	B	470.2	52.1	310.6	177.8	17.7	28.4	137.7	0.134287	3.698	9.200	
WVAS 1330 US			PITTSBURGH	PA 168.5	B	261.5	52.9	356.5	1041.2	40.1	54.4	457.0	0.321345	2.937	9.657	
WMRV 1330 US			NEW YORK	NY 514.2	B	551.7	52.5	285.5	134.6	14.5	23.8	137.6	0.101907	2.804	10.056	
WTRZ 1330 US			PLINT	MI 316.3	B	374.2	53.6	108.9	140.4	23.8	36.4	74.5	0.184790	2.753	10.426	
WMRV 1330 US			NEW YORK	NY 516.8	B	554.2	52.8	276.4	135.1	14.4	23.6	123.6	0.101255	2.504	0.000	
WRCA 1330 US			WATERLOO	MA 729.2	B	756.1	53.6	270.4	129.5	9.5	16.5	170.0	0.057909	1.869	0.000	
CHLD 1330 CA			THEFTORD MINES	QC 825.2	B	849.1	55.5	239.8	230.5	8.0	14.3	223.9	0.042516	1.904	0.000	
WHEB 1330 US			SHEBOYGAN	WI 656.5	B	686.3	53.9	104.4	136.9	10.9	18.5	131.2	0.067743	1.777	0.000	
KLDO 1330 US			WATERLOO	IA 1007.9	B	1027.6	50.8	88.9	277.1	5.9	11.1	262.3	0.033650	1.765	0.000	
KSSS 1330 US			WICHITA	KS 141.6	B	1554.5	50.8	66.6	446.1	1.9	5.3	443.6	0.017176	1.524	0.000	
CMNR 1320 CA			MISSISSAUGA	ON 144.5	B	259.0	54.0	187.9	134.8	40.8	55.1	221.7	0.318819	1.413	0.000	
CKDK 1340 CA			WOODSTOCK	ON 137.6	C	242.8	53.8	153.8	297.7	46.0	59.8	196.7	0.351244	1.382	0.000	
WTVU 1340 US			LOCKPORT	NY 170.1	C	262.6	53.9	219.5	304.2	39.8	54.2	213.5	0.313039	1.337	0.000	
WTRN 1340 US			TYRONE	PA 209.1	C	289.3	52.6	315.5	285.8	34.1	48.3	224.2	0.277136	1.243	0.000	
WTRM 1340 US			TYRONE	VA 600.9	B	633.3	50.6	289.7	289.7	12.1	20.3	67.3	0.066683	1.166	0.000	
WTRM 1340 US			DANVILLE	VA 264.7	B	331.8	52.9	355.3	64.5	27.9	20.3	21.0	0.066683	1.166	0.000	
WMPA 1340 VE			WILLIAMSPORT	PA 264.7	C	311.8	37.6	289.7	98.6	0.0	0.0	21.0	0.066683	1.166	0.000	
WTVU 1330 VE			LAGUNITAS	CA 340.6	B	3646.1	37.6	347.9	289.7	27.9	20.3	21.0	0.066683	1.166	0.000	
WMLP 1340 US			AUBURN	NY 301.9	C	362.1	53.8	250.5	312.2	24.8	37.7	269.4	0.005415	1.060	0.000	
WEPM 1340 US			MARTINSBURG	WV 329.6	C	385.6	52.0	329.2	305.8	22.8	35.2	266.9	0.193685	1.044	0.000	
WEXL 1340 US			ROYAL OAK	MI 259.5	C	327.6	53.4	100.8	484.9	28.4	42.0	208.5	0.227465	0.949	0.000	
WOUB 1340 US			ATHENS	OH 343.4	C	397.4	51.9	29.8	286.5	22.0	34.1	280.1	0.175141	0.911	0.000	
WTZE 1340 US			SPRINGFIELD	OH 389.2	C	437.5	52.1	310.6	310.6	19.4	30.7	283.8	0.150243	0.853	0.000	
WGHT 1340 US			ASHLAND	KY 488.4	C	491.0	51.4	284.7	405.8	16.8	27.0	325.9	0.127509	0.831	0.000	
WCKK 1340 US			SPAIN	PA 358.9	C	410.9	53.0	284.7	273.6	21.0	32.8	248.0	0.162498	0.806	0.000	
WVCO 1340 US			ASHLAND	OH 232.6	C	306.7	52.6	35.8	339.6	31.2	43.2	195.8	0.254534	0.793	0.000	
KYOL 1330 US			LAFAVETTE	LA 1591.7	B	1703.5	47.1	36.2	230.2	1.0	4.2	229.9	0.018980	0.781	0.000	
WLEW 1340 US			BAD AXE	MI 316.0	C	374.0	54.1	129.5	241.4	23.8	36.4	210.4	0.183023	0.770	0.000	
WREY 1340 US			COVINGTON	VA 469.7	C	510.5	51.1	358.6	345.1	16.0	25.9	316.3	0.120696	0.764	0.000	
WNON 1340 US			MONTGOMERY	WV 438.0	C	481.5	51.3	14.0	305.8	17.2	27.6	286.2	0.131786	0.754	0.000	
WTRC 1340 US			ELKHART	IN 491.5	C	530.6	53.0	83.9	405.6	15.2	24.8	339.4	0.108280	0.735	0.000	
WTRW 1340 US			GRAND RAPIDS	MI 476.9	C	517.2	53.6	101.0	373.4	15.7	25.5	325.6	0.110687	0.721	0.000	
WHTT 1340 US			PHILADELPHIA	PA 460.9	C	502.4	52.4	300.3	320.3	16.3	26.4	286.8	0.120191	0.714	0.000	
WYVU 1330 VE			ROBID	VA 3897.3	C	3692.4	36.3	350.0	682.0	0.0	0.0	682.0	0.005027	0.696	0.000	
WYCV 1340 VE			ORANGE	VA 446.1	C	488.9	37.1	339.3	305.8	16.9	27.2	265.1	0.128362	0.681	0.000	
WYCB 1330 VE			CALABOZO	DC 3876.7	C	3881.8	37.1	343.6	682.0	0.0	0.0	682.0	0.004886	0.676	0.000	
WYCB 1330 VE			WASHINGTON	DC 423.5	C	468.4	51.8	323.8	290.0	17.8	28.5	248.1	0.136122	0.675	0.000	
HNNR 1330 CO			S GILL 1	PA 4000.9	C	4005.9	35.7	351.2	682.0	0.0	0.0	682.0	0.004872	0.674	0.000	
WMAW 1340 US			READING	PA 390.7	C	438.9	52.5	299.7	279.2	19.3	30.6	224.1	0.148222	0.664	0.000	
WALL 1340 US			MIDDLETON	NY 467.5	C	508.5	53.1	279.2	307.4	16.1	26.0	277.8	0.115479	0.642	0.000	
WRCB 1340 US			HINDMAN	KY 577.5	C	611.2	50.8	25.2	394.3	12.7	21.2	348.9	0.091193	0.636	0.000	

Exhibit IV - Page 9  
 RSS CALCULATIONS BASED ON INCLUSION OF WRRV  
 LICENSED AND PROPOSED FACILITIES  
 SEPTEMBER 24, 2013 CDBS

WRRV Print, MI  
 Coordinates : 42-58-24.0 N 83-39-02.0 W  
 Frequency : 1330  
 Initial FWR: 1.000  
 Initial Inv Field: 346.01 mV/M RMS

SITE INFO	CALL	FMG	COUNTRY	CITY	ST	DIST	CLASS	STANT	DIST	GEOMG	MID	AZIMUTH	GND	RAD	MIN	ELEV	MAX	ELEV	MAX	RAD	SWAVE	FLD	LIMITATION	RSS	LIMIT	50%	RSS	LIMIT	25%			
WRRV 1330 US				GREENVILLE	SC	908.8	B	930.5		50.0		353.7	448.4		7.0		12.7		464.0	0.046141		4.282		4.282								
WRRV 1330 US				SHEBOGAN	WI	340.4	B	394.8		54.3		102.7	137.1		22.1		34.3		115.2	0.167278		3.854		5.761								
WRRV 1330 US				ERIE	PA	316.3	B	374.2		53.6		279.1	75.3		23.8		36.4		86.5	0.184790		2.348		6.221								
WRRV 1330 US				SPRINGVILLE	NY	408.8	B	455.1		53.9		291.4	99.2		18.5		29.4		86.4	0.134729		2.329		6.643								
WRRV 1330 US				EVANSVILLE	IN	640.4	B	670.9		51.4		301.1	184.4		11.2		19.0		142.3	0.076985		2.190		6.995								
WRRV 1330 US				WATERLOO	IA	705.7	B	733.5		53.5		32.5	193.4		9.9		17.1		165.2	0.061365		2.028		7.283								
WRRV 1330 US				WICHITA	KS	1290.0	B	1305.4		51.1		58.8	421.8		3.5		7.6		413.4	0.023879		1.974		7.545								
WRRV 1330 US				LANSING	MI	90.0	B	219.3		53.8		63.9	375.1		57.8		69.2		239.0	0.405930		1.941		0.000								
WRRV 1330 US				HAYRE DE GRACE	MD	724.2	B	761.0		52.6		303.5	166.8		9.4		16.4		145.7	0.059781		1.742		0.000								
WRRV 1330 US				NEW YORK	NY	827.6	B	851.4		53.3		289.7	152.5		8.0		14.2		144.0	0.047448		1.367		0.000								
WRRV 1330 US				NEW YORK	NY	830.7	B	854.4		53.3		289.7	151.7		8.0		14.2		144.0	0.047216		1.274		0.000								
WRRV 1330 US				WOODSTOCK	ON	235.0	B	308.6		54.2		267.4	226.7		31.0		44.9		248.8	0.244938		1.219		0.000								
WRRV 1330 US				THEFTORD MINES	QC	1029.8	B	1049.0		56.0		254.9	226.5		5.6		10.7		223.8	0.027210		1.218		0.000								
WRRV 1330 US				MANISTEE	MI	266.5	B	325.3		54.6		228.2	130.6		28.7		42.4		254.9	0.224162		1.143		0.000								
WRRV 1330 US				WATERLOO	MA	1021.2	B	1040.6		54.1		178.5	177.3		5.7		10.9		175.5	0.031276		1.098		0.000								
WRRV 1330 US				LAFAYETTE	LA	1600.1	B	1612.6		47.4		25.5	287.2		1.5		4.9		286.7	0.018642		1.069		0.000								
WRRV 1330 US				MISSISSAUGA	ON	320.2	B	377.5		54.4		261.6	160.5		23.5		36.0		290.8	0.178892		1.041		0.000								
WRRV 1330 US				SPRINGFIELD	OH	377.2	B	392.0		52.5		1.9	310.6		22.4		34.6		275.6	0.117548		0.973		0.000								
WRRV 1330 US				GRAND RAPIDS	MI	166.6	B	260.3		53.9		88.5	313.4		40.4		54.7		148.8	0.316549		0.942		0.000								
WRRV 1330 US				ELKHART	IN	237.7	B	310.6		53.3		51.8	405.6		30.7		44.6		189.0	0.246848		0.933		0.000								
WRRV 1330 US				LAGONVILLE	IN	344.0	B	3845.7		38.1		343.9	978.6		0.0		0.0		978.6	0.004740		0.928		0.000								
WRRV 1330 US				MUNCIE	IN	344.0	B	397.9		52.6		24.1	295.0		21.9		34.0		268.0	0.172321		0.924		0.000								
WRRV 1330 US				BAD AXE	MI	105.0	B	225.9		54.4		209.1	241.4		26.2		39.4		211.6	0.385441		0.905		0.000								
WRRV 1330 US				PETOSKEY	MI	284.0	B	347.4		55.2		157.8	426.5		26.2		39.4		211.6	0.193565		0.844		0.000								
WRRV 1330 US				ASHLAND	OH	260.2	B	328.2		53.0		336.1	339.6		28.4		42.0		180.2	0.228752		0.824		0.000								
WRRV 1330 US				MILWAUKEE	WI	352.1	B	405.0		53.9		89.9	441.0		21.4		33.4		246.5	0.162273		0.800		0.000								
WRRV 1330 US				ELLIOT LAKE	ON	387.0	B	435.6		55.7		192.4	313.8		19.5		30.8		286.6	0.135133		0.780		0.000								
WRRV 1330 US				LOCKPORT	NY	401.7	B	448.8		51.8		268.4	304.2		18.6		29.8		281.5	0.136370		0.768		0.000								
WRRV 1330 US				ASHLAND	NY	508.8	B	546.7		51.8		350.3	405.8		14.8		24.0		343.6	0.106538		0.732		0.000								
WRRV 1330 US				WOUB 1340 US	OH	425.6	B	470.3		52.2		342.7	286.5		17.7		28.3		269.1	0.133859		0.720		0.000								
WRRV 1330 US				JOLIET	IL	396.0	B	443.7		53.2		64.7	305.8		19.1		30.2		251.0	0.143394		0.720		0.000								
WRRV 1330 US				OSBERTIN	OH	223.7	B	300.1		53.2		128.4	177.7		32.3		46.4		137.0	0.260270		0.713		0.000								
WRRV 1330 US				MINNEAPOLIS	MN	801.9	B	826.5		54.7		101.1	78.0		8.4		14.8		75.8	0.046899		0.711		0.000								
WRRV 1330 US				LOS ANGELES	CA	3153.0	B	3159.3		49.1		61.3	842.5		0.0		0.0		842.5	0.004134		0.707		0.000								
WRRV 1330 US				PITTSBURGH	PA	416.5	B	462.1		52.9		113.0	282.5		18.1		28.9		259.5	0.115431		0.703		0.000								
WRRV 1330 US				CLINTON	IA	551.9	B	587.0		53.3		74.8	397.5		13.4		22.2		348.8	0.109076		0.633		0.000								
WRRV 1330 US				CLARKSBURG	WV	451.5	B	534.3		52.3		286.8	384.6		15.1		24.6		284.0	0.109103		0.620		0.000								
WRRV 1330 US				CHARLESTON	NY	372.6	B	422.8		53.7		286.5	224.3		20.3		31.8		203.3	0.152396		0.620		0.000								
WRRV 1330 US				RUBIO	4075.1	B	4080.0		36.8			346.1	692.0		0.0		0.0		692.0	0.004464		0.618		0.000								
WRRV 1330 US				BEDFORD	IN	513.9	B	551.4		51.9		26.6	304.2		14.5		23.8		290.4	0.104838		0.609		0.000								
WRRV 1330 US				MEMONINNEE	MI	395.2	B	443.0		55.0		125.5	121.4		19.1		30.3		222.7	0.136205		0.607		0.000								
WRRV 1330 US				GREENVILLE	MS	1241.7	B	1257.7		49.0		29.0	110.0		3.8		8.1		108.7	0.028788		0.606		0.000								
WRRV 1330 US				S GIL 1	4181.0	B	4185.8		36.2			347.3	692.0		0.0		0.0		692.0	0.004358		0.603		0.000								



Exhibit IV - Page 10  
 RSS CALCULATIONS BASED ON INCLUSION OF WWRV  
 LICENSED AND PROPOSED FACILITIES  
 SEPTEMBER 24, 2013 CDBS

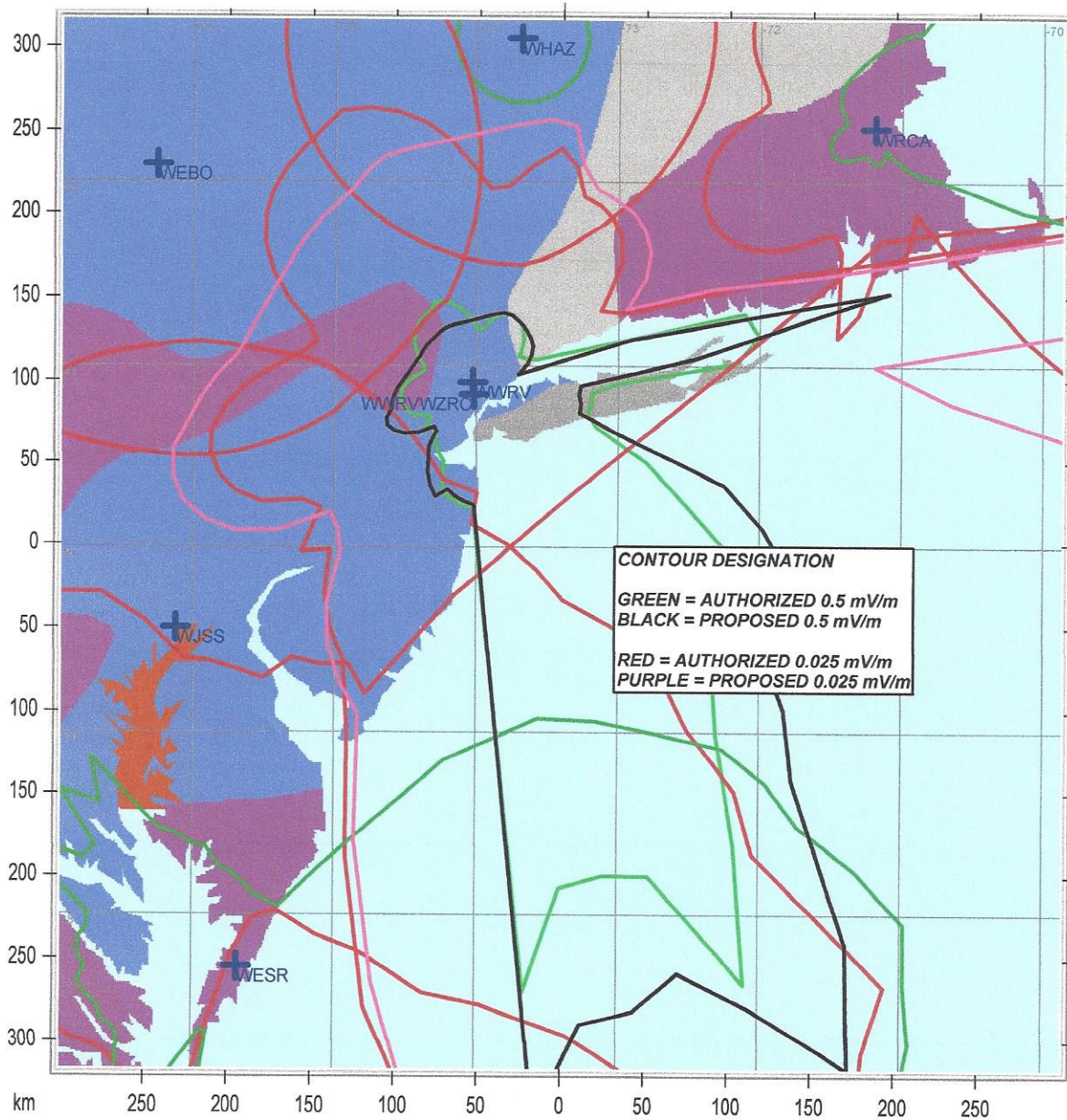
WRRV Springville, NY  
 Coordinates : 42-29-53.0 N 78-41-10.0 W  
 Frequency : 1330  
 Initial EPR: 1.000  
 Initial Inv Field: 329.84 mV/M RMS

SITE INFO	CITY	ST DIST	CLASS	SLANT DIST	GEOMG MID	AZIMUTH	GND RAD	MIN ELEV	MAX ELEV	MAX RAD	SNAVE FLD	LIMITATION	RSS LIMIT 50%	RSS LIMIT 25%
WRRV 1330 US	BRIT	PA 124.0	B	235.3	53.5	62.6	510.7	49.0	62.3	84.0	0.236820	6.196	6.196	
WRRV 1330 US	GREENVILLE	SC 909.3	B	931.0	49.9	13.7	489.5	6.9	12.7	496.4	0.046243	4.591	7.711	
WRRV 1330 US	HAVRE DE GRACE	MD 390.7	B	438.9	52.4	37.4	198.8	19.3	30.6	148.0	0.148640	4.399	8.877	
WRRV 1330 US	NEW YORK	NY 424.9	B	469.6	53.1	296.1	230.1	17.8	28.4	159.9	0.131209	4.197	9.819	
WRRV 1330 US	NEW YORK	NY 428.8	B	473.1	53.1	296.9	196.9	17.6	28.2	135.3	0.129765	3.512	10.428	
WRRV 1330 US	WATERLOO	MA 615.8	B	647.5	53.9	274.7	176.8	11.8	19.8	166.5	0.075136	2.502	0.000	
WRRV 1330 US	THEPPOD MINES	CA 702.9	B	730.8	55.8	238.3	229.7	10.0	17.2	219.5	0.055407	2.433	0.000	
WRRV 1330 US	PITTSBURGH	PA 246.3	B	317.2	52.9	52.9	578.2	29.7	43.6	463.3	0.241543	2.238	0.000	
WRRV 1330 US	FLINT	MI 408.8	B	455.1	53.9	95.7	105.4	18.5	29.4	74.2	0.134729	1.929	0.000	
WRRV 1330 US	SHEBOYGAN	WI 746.5	B	772.6	54.3	97.4	149.9	9.2	18.1	145.2	0.054093	1.570	0.000	
WRRV 1330 US	WOODSTOCK	ON 182.4	B	270.7	54.1	111.0	297.7	37.9	52.2	226.6	0.298305	1.352	0.000	
WRRV 1330 US	AUBURN	NY 178.9	C	268.3	54.1	254.3	312.2	38.4	52.8	0.000	0.302143	1.322	0.000	
WRRV 1330 US	WICHITA	KS 1661.6	B	1673.5	51.2	65.5	444.5	1.2	4.4	443.4	0.014517	1.287	0.000	
WRRV 1330 US	DANVILLE	VA 658.1	B	687.8	50.8	5.4	84.8	18.5	18.5	83.9	0.075158	1.261	0.000	
WRRV 1330 US	TYRONE	PA 207.1	B	287.9	52.9	350.2	285.8	30.9	48.6	223.3	0.278041	1.242	0.000	
WRRV 1330 US	WILLIAMSPORT	PA 197.7	B	281.3	53.2	116.1	289.7	35.6	49.9	214.6	0.286273	1.229	0.000	
WRRV 1330 US	WATERLOO	IA 1112.3	B	1130.1	53.6	85.2	229.4	4.9	9.6	220.6	0.027534	1.215	0.000	
WRRV 1330 US	LAGUNITAS	CA 3666.7	B	3672.1	37.8	349.9	978.6	0.0	0.0	978.6	0.005276	1.033	0.000	
WRRV 1330 US	FLAINS	PA 274.4	C	339.6	53.2	178.5	273.6	27.1	40.4	232.5	0.216253	1.006	0.000	
WRRV 1330 US	LOCKPORT	NY 75.3	C	213.7	54.1	304.2	304.2	62.2	72.3	119.3	0.419202	1.000	0.000	
WRRV 1330 US	MARTINSBURG	WV 342.5	C	366.6	52.3	305.8	305.8	22.0	34.1	269.5	0.174156	0.939	0.000	
WRRV 1330 US	ROYAL OAK	MI 363.1	C	414.5	53.7	88.0	424.9	20.8	32.5	294.5	0.157349	0.927	0.000	
WRRV 1330 US	PHILADELPHIA	PA 401.8	C	448.8	52.6	314.8	320.3	18.8	29.8	289.5	0.142739	0.837	0.000	
WRRV 1330 US	MIDDLETOWN	NY 369.5	C	420.2	53.4	289.7	307.4	20.4	32.1	261.0	0.155378	0.811	0.000	
WRRV 1330 US	ASHLAND	OH 356.2	B	408.5	52.9	57.6	339.6	21.2	33.0	240.5	0.164228	0.790	0.000	
WRRV 1330 US	MISSISSAUGA	ON 137.7	B	242.8	54.3	140.5	76.4	46.0	59.7	112.4	0.348437	0.783	0.000	
WRRV 1330 US	MASSENA	NY 406.0	C	452.6	55.1	220.1	367.5	18.6	29.6	295.5	0.130948	0.774	0.000	
WRRV 1330 US	READING	PA 324.1	C	389.4	52.8	317.2	241.4	22.6	34.8	218.1	0.177343	0.773	0.000	
WRRV 1330 US	GLOVERSVILLE	NY 358.5	C	410.5	54.2	282.1	268.8	21.1	32.9	243.7	0.157780	0.769	0.000	
WRRV 1330 US	PITTSFIELD	MA 448.6	B	491.2	53.9	42.8	366.0	16.8	27.0	309.9	0.119234	0.739	0.000	
WRRV 1330 US	FORT PIERCE	FL 1679.3	B	1691.2	46.2	4.8	196.7	1.1	4.3	196.7	0.017765	0.699	0.000	
WRRV 1330 US	CLARKSBURG	WV 381.9	C	431.1	52.2	20.5	384.6	19.8	31.2	222.2	0.153594	0.683	0.000	
WRRV 1330 US	WASHINGTON	DC 418.6	C	463.9	52.1	340.8	290.0	18.0	28.8	247.2	0.137343	0.679	0.000	
WRRV 1330 US	YVYJ	DC 318.9	C	3924.0	36.6	351.9	692.0	0.0	0.0	692.0	0.004890	0.677	0.000	
WRRV 1330 US	ATHENS	OH 453.8	C	495.9	52.1	18.0	286.5	15.6	26.7	271.2	0.123395	0.659	0.000	
WRRV 1330 US	ATLANTIC CITY	NJ 486.8	C	535.5	52.3	115.7	366.3	15.0	24.6	308.2	0.108570	0.659	0.000	
WRRV 1330 US	ASHLAND	VT 586.8	C	591.7	51.7	35.2	405.8	13.2	22.0	308.2	0.108570	0.659	0.000	
WRRV 1330 US	CALABOZO	KY 3890.1	C	3895.2	37.3	345.6	692.0	0.0	0.0	692.0	0.004799	0.654	0.000	
WRRV 1330 US	YVOY	VT 4035.9	C	4040.9	36.0	257.1	305.8	0.0	0.0	305.8	0.004733	0.655	0.000	
WRRV 1330 US	HONR 1330 CO	VT 459.6	C	501.2	54.4	257.8	305.8	16.4	26.4	288.3	0.113321	0.653	0.000	
WRRV 1330 US	POULTNEY	VT 459.6	C	501.2	54.4	257.8	305.8	16.4	26.4	288.3	0.113321	0.653	0.000	
WRRV 1330 US	KOOL 1330 US	VA 1809.3	B	1820.3	47.5	37.5	354.1	0.5	3.4	320.6	0.014755	0.651	0.000	
WRRV 1330 US	LAFAYETTE	LA 537.4	C	573.4	51.4	11.4	354.1	13.8	22.8	320.6	0.099655	0.649	0.000	
WRRV 1330 US	COVINGTON	LA 537.4	C	573.4	51.4	11.4	354.1	13.8	22.8	320.6	0.099655	0.649	0.000	
WRRV 1330 US	MEW 1330 US	MI 380.4	C	429.8	54.4	110.9	241.4	19.9	31.3	219.3	0.145797	0.640	0.000	

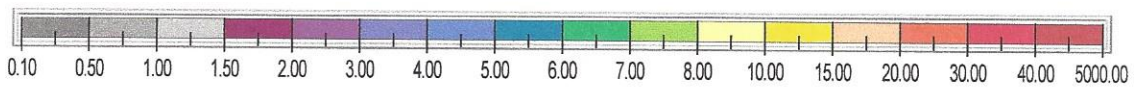




WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



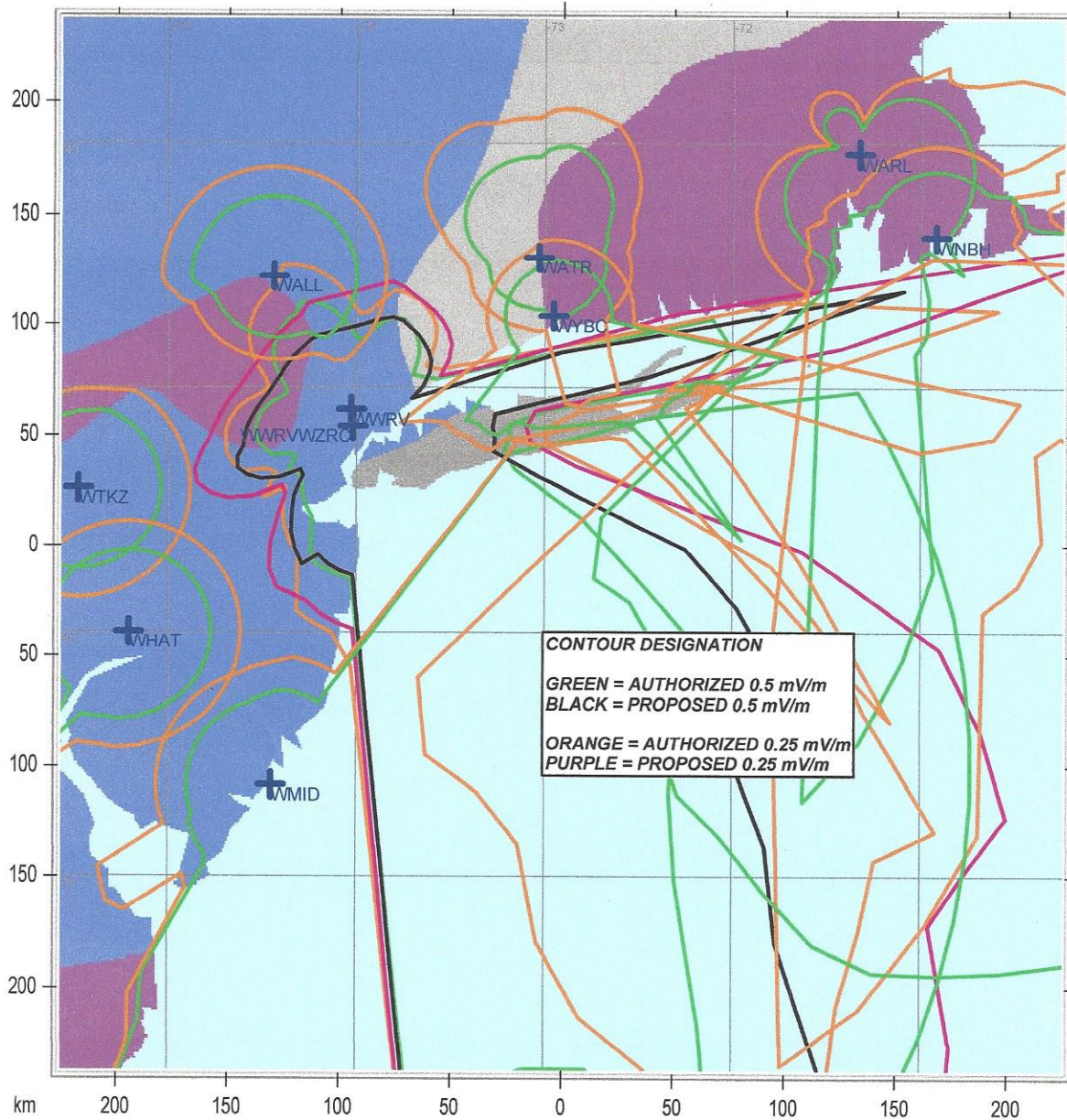
Communications Technologies, Inc. Marlton, New Jersey



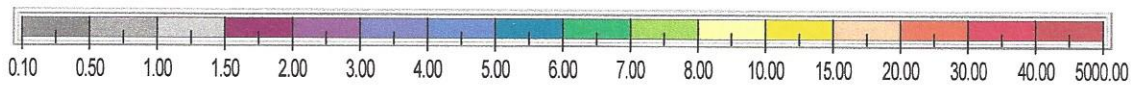
Lat/Lon Grid



WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



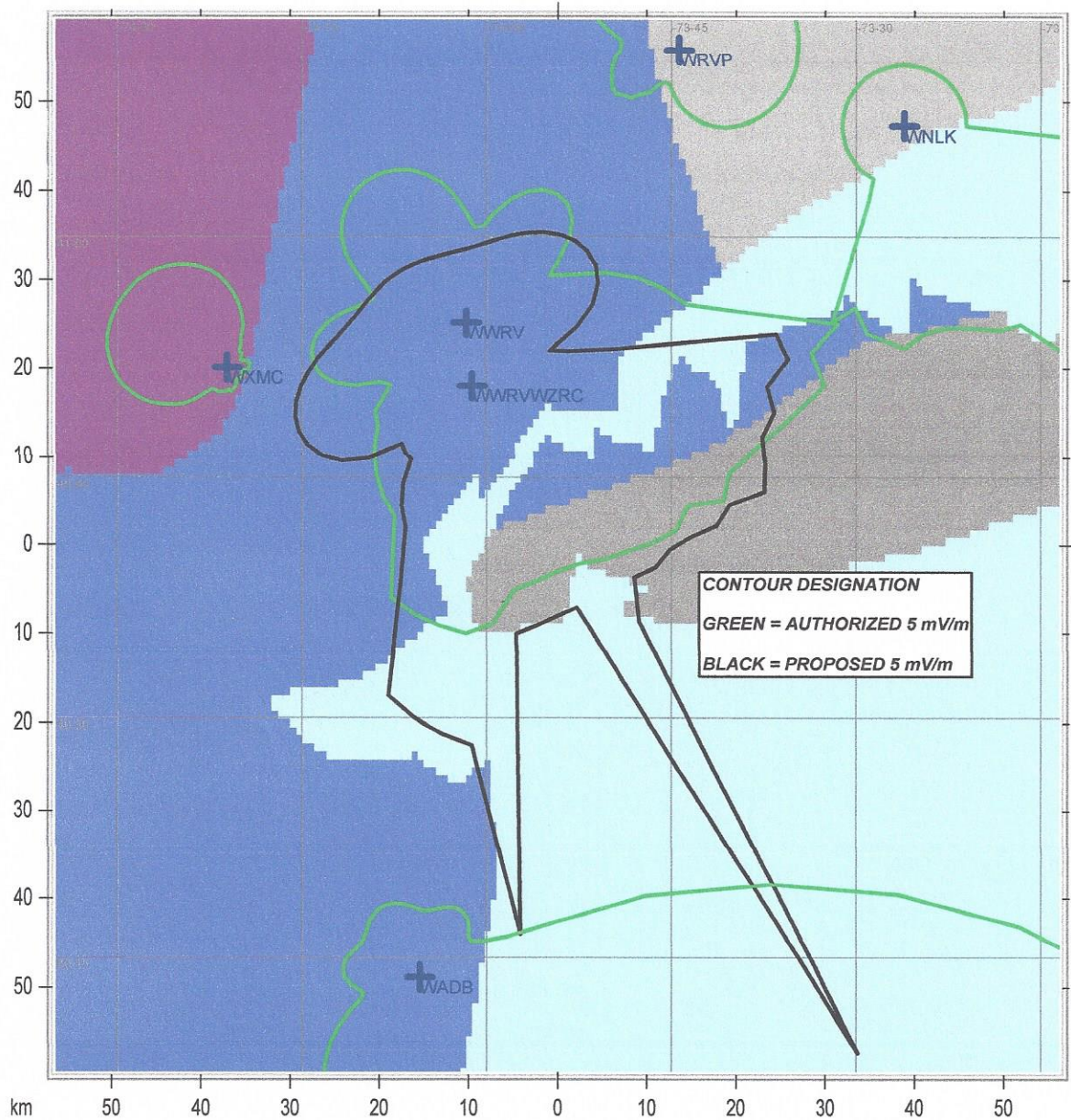
Communications Technologies, Inc. Marlton, New Jersey



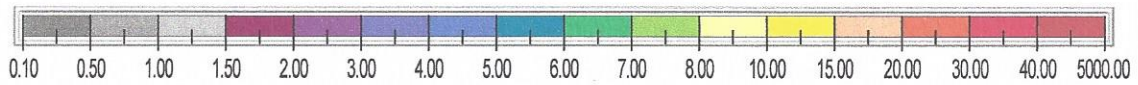
Lat/Lon Grid



WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



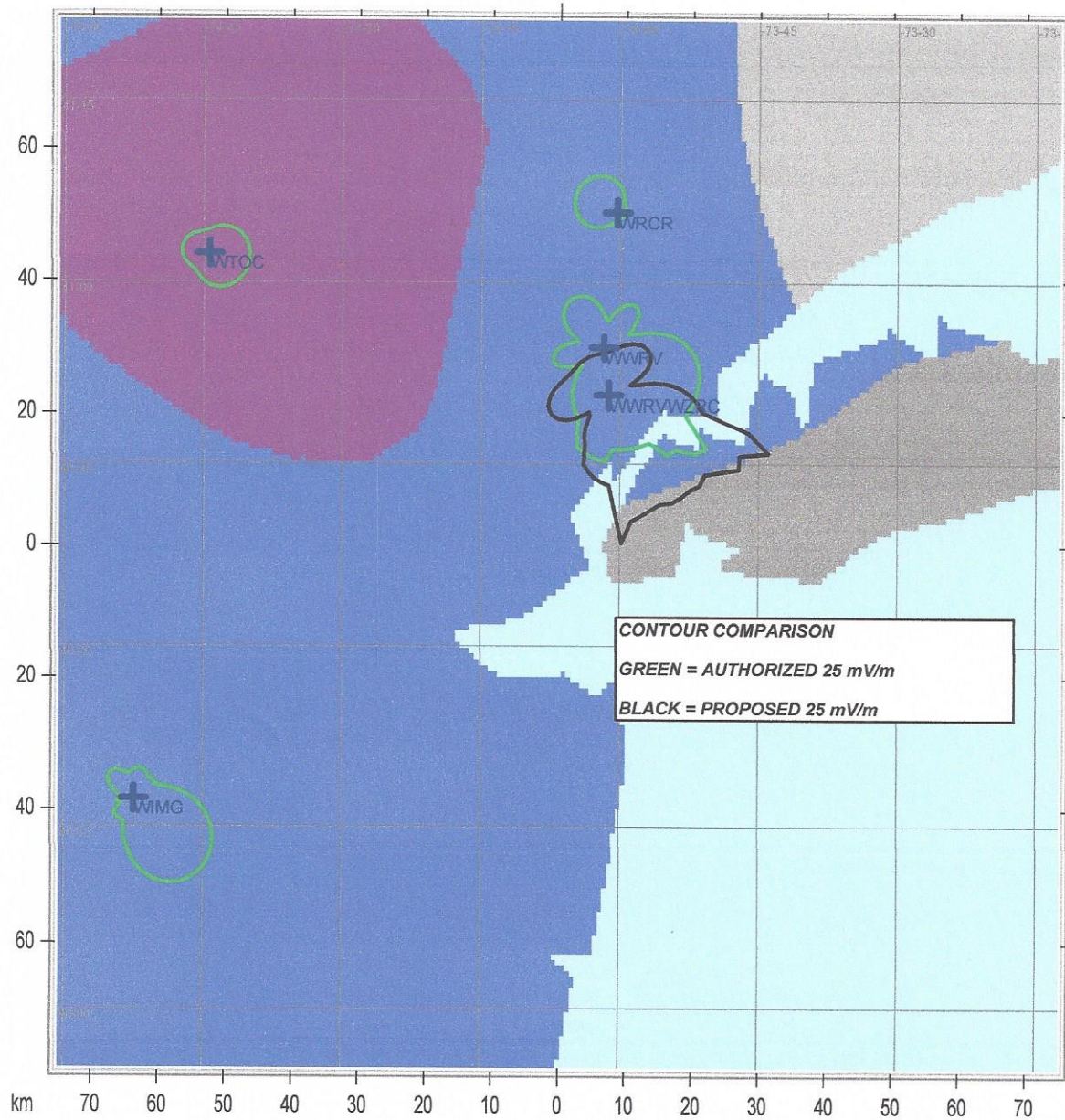
Communications Technologies, Inc. Marlton, New Jersey



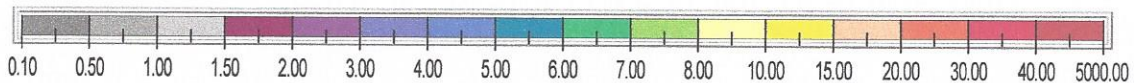
Lat/Lon Grid



WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK

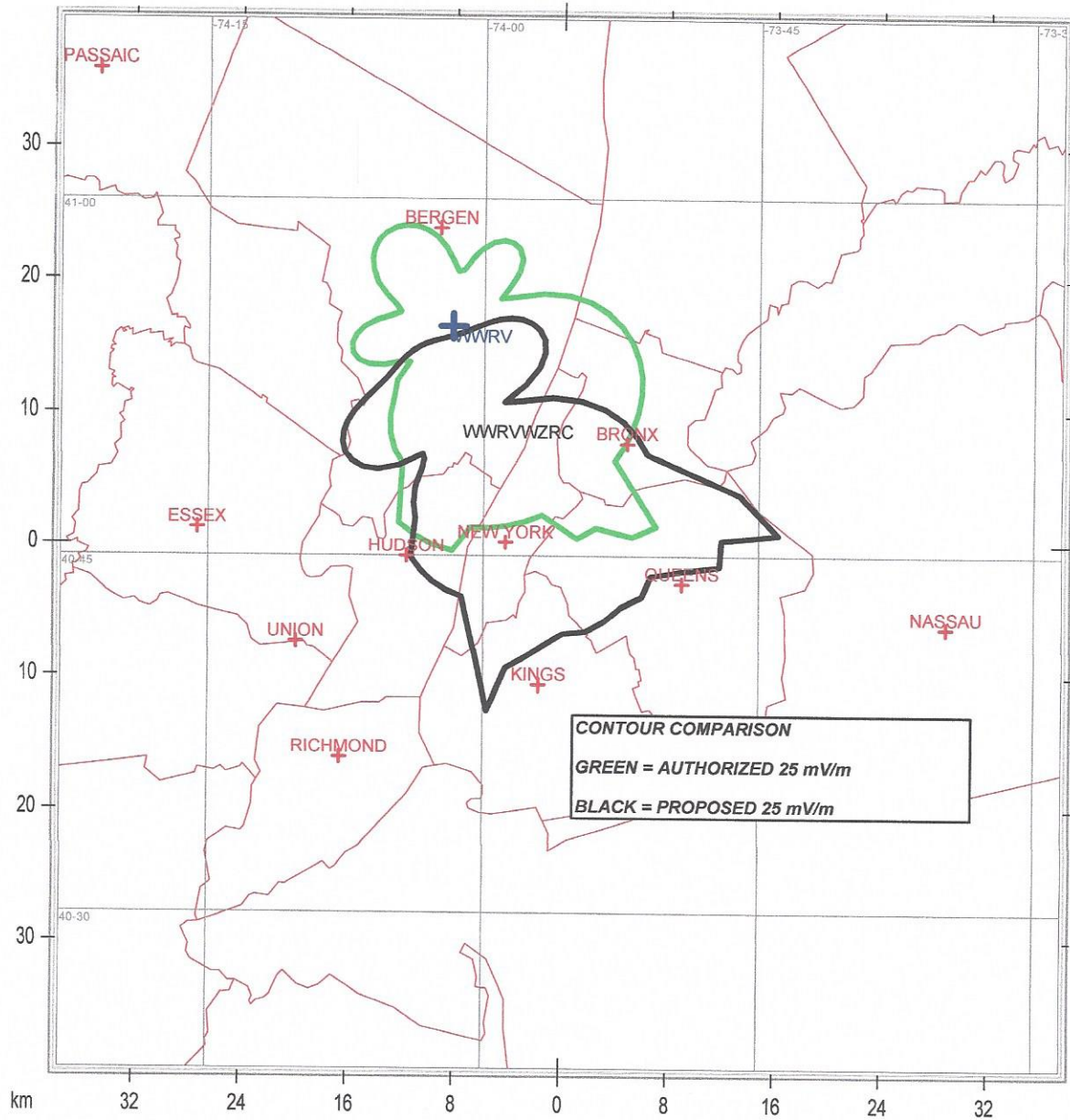


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Lat/Lon Grid

WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



Communications Technologies, Inc. Marlton, New Jersey

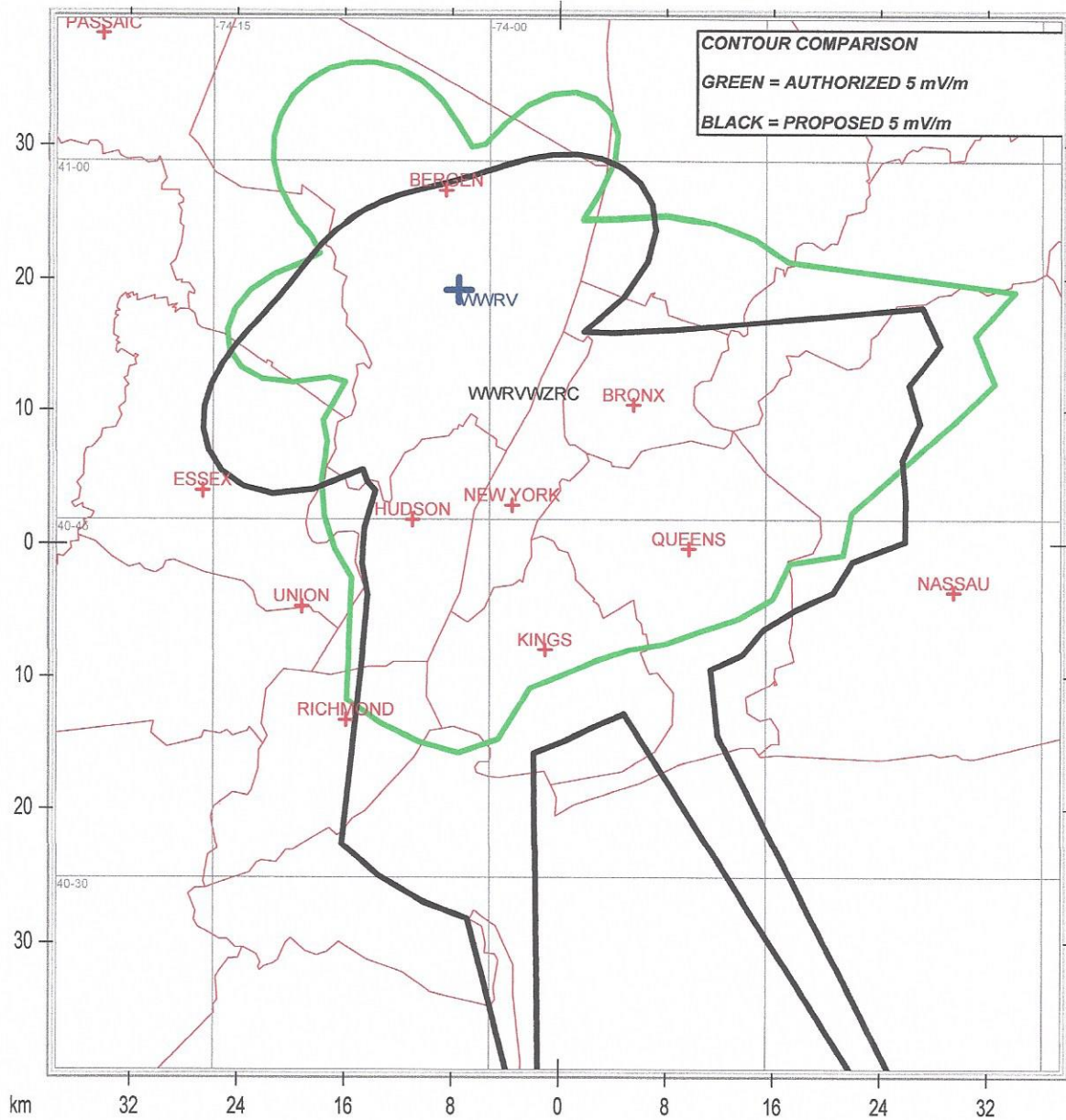
County Borders    Lat/Lon Grid

Map Scale: 1:500000    1 cm = 5.00 km    V/H Size: 79.09 x 74.96 km

FIGURE 5



WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



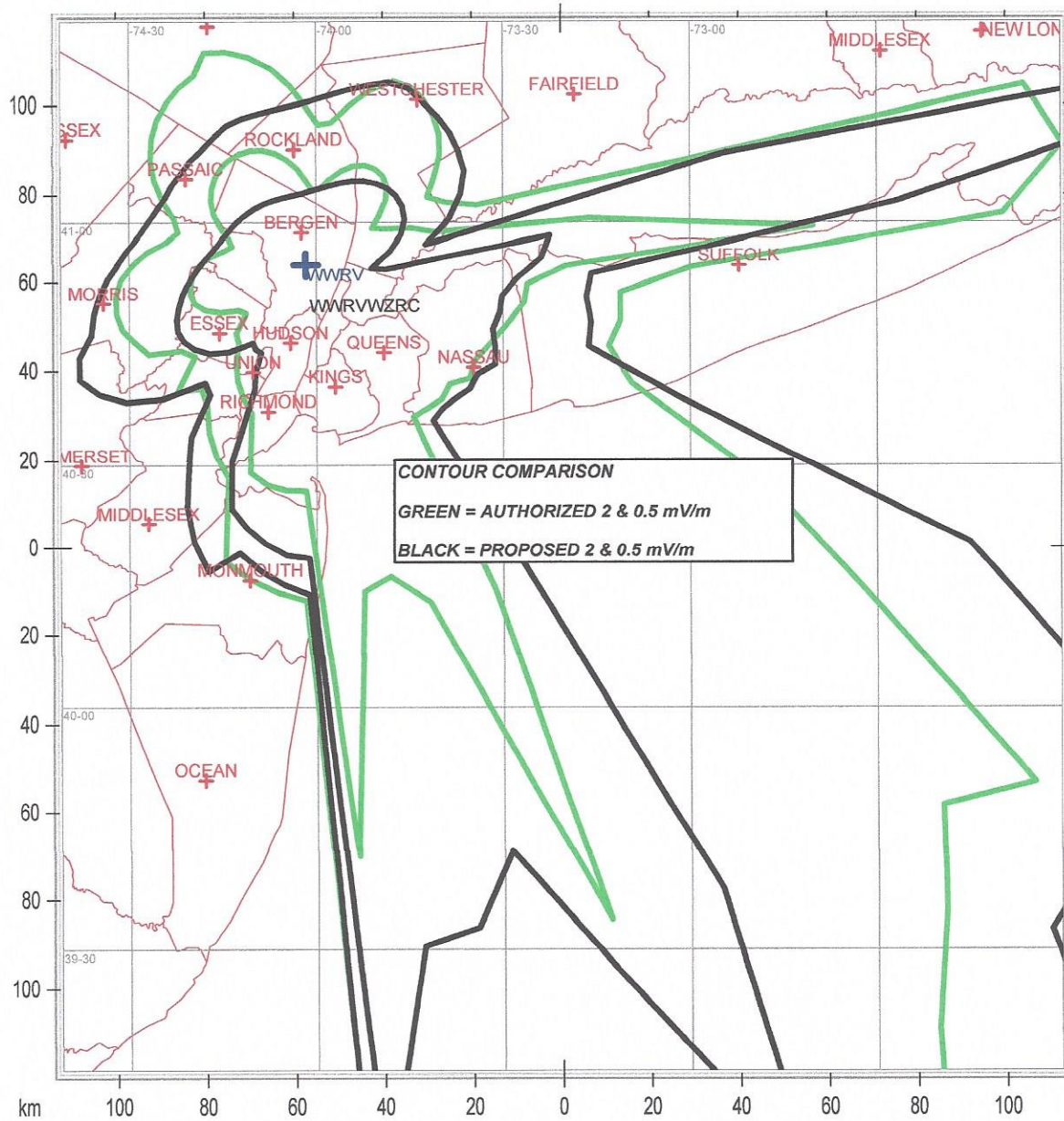
Communications Technologies, Inc. Marlton, New Jersey

County Borders    Lat/Lon Grid

Map Scale: 1:500000    1 cm = 5.00 km    V/H Size: 79.09 x 74.96 km

FIGURE 6

WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



Communications Technologies, Inc. Marlton, New Jersey

County Borders    Lat/Lon Grid

Map Scale: 1:1500000    1 cm = 15.00 km    V/H Size: 237.28 x 224.89 km

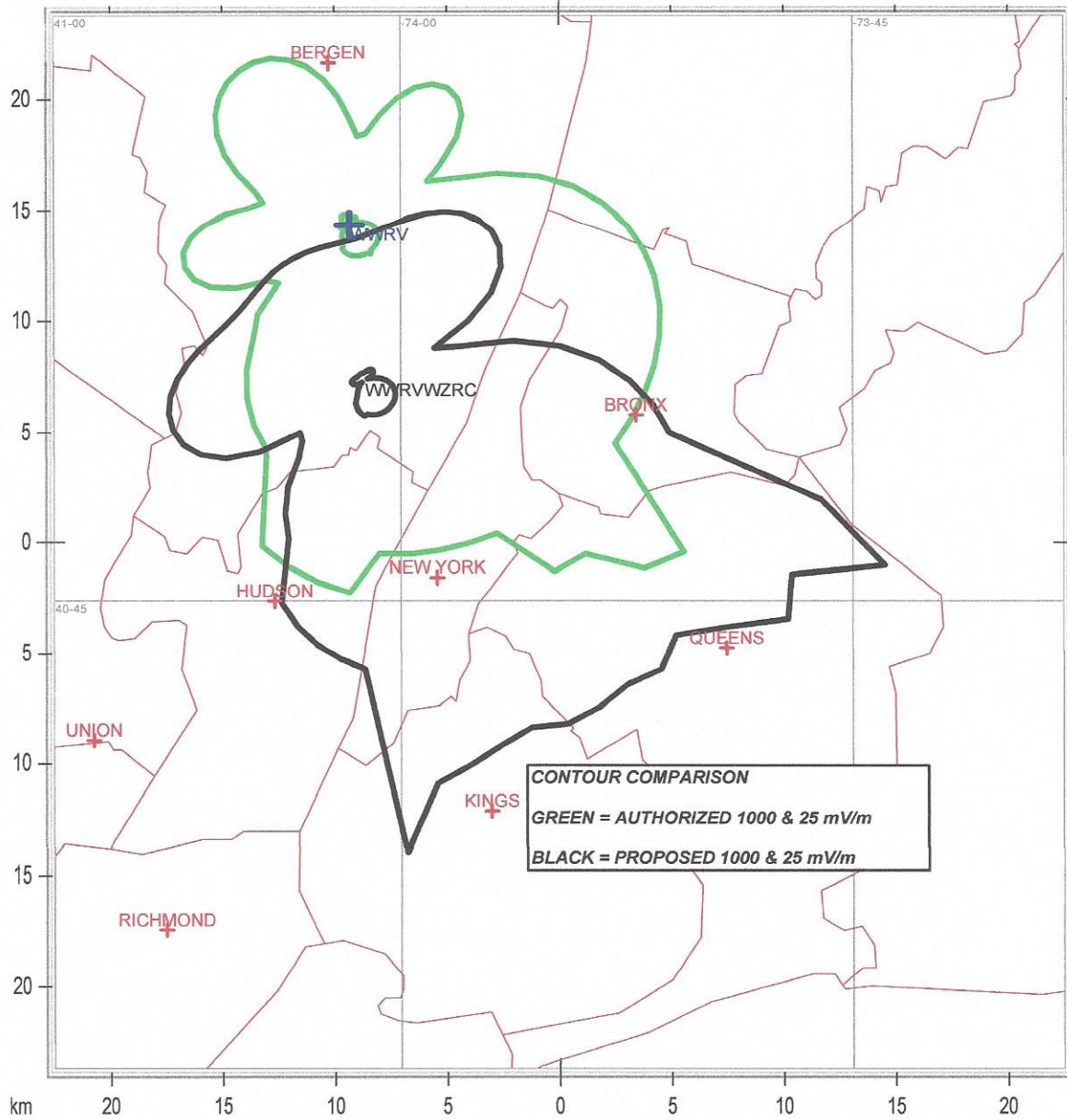
FIGURE 7







WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



Communications Technologies, Inc. Marlton, New Jersey

County Borders Lat/Lon Grid

Map Scale: 1:300000 1 cm = 3.00 km V/H Size: 47.46 x 44.98 km

FIGURE 9





Call sign: WWRV  
 Frequency: 1330 kHz  
 Power: 10.000 kW  
 ERSS: 1352.20 mV/m at 1 km  
 Q factor at zero degrees:  
 33.80 mV/m at 1 km  
 Theoretical pattern RMS:  
 1205.00 mV/m at 1 km  
 Standard pattern RMS:  
 1265.75 mV/m at 1 km  
 Modified pattern RMS:  
 0.00 mV/m at 1 km

Coordinates:  
 N40°50'42.00" W74°01'12.00"

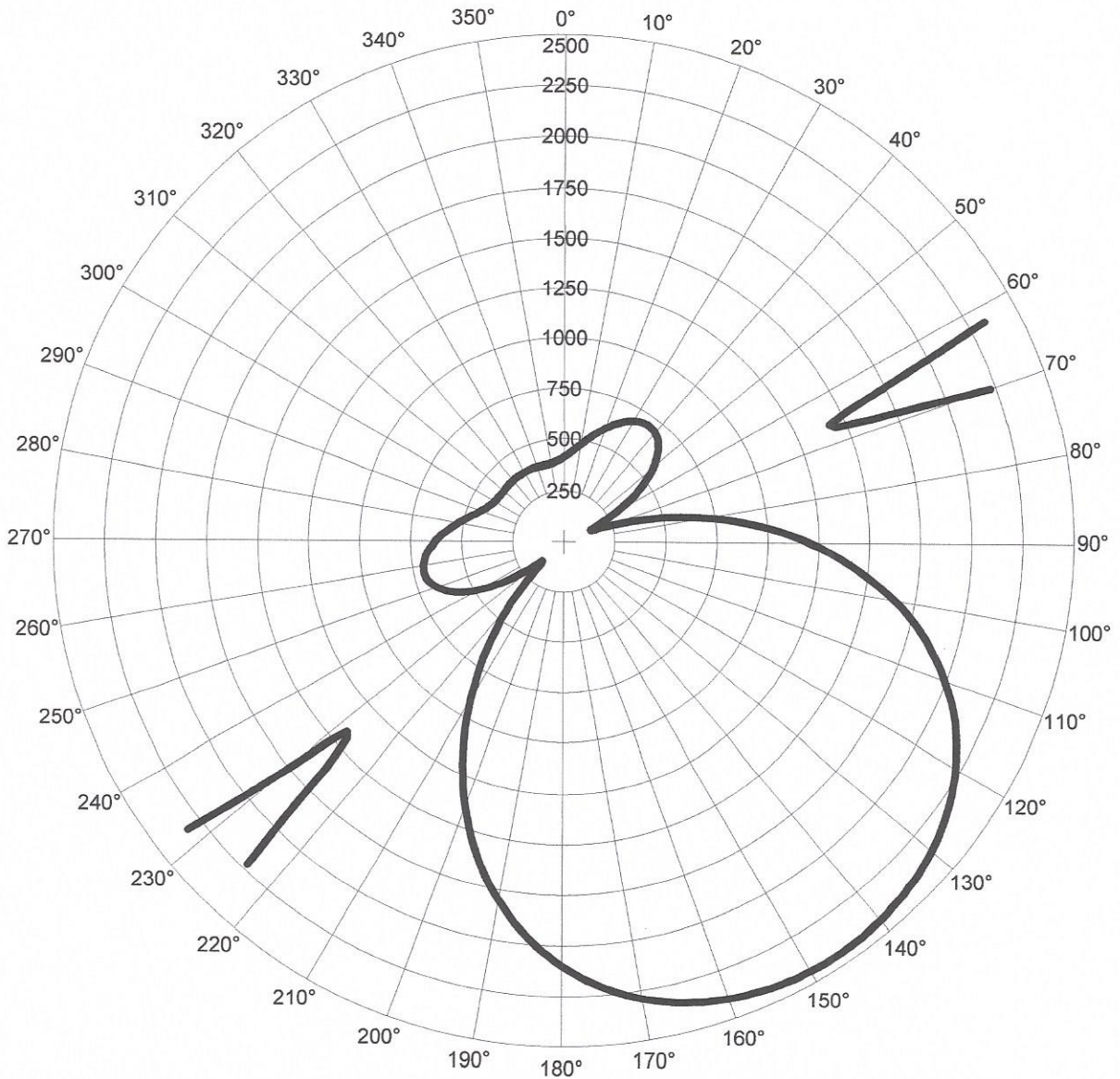
No. of augmentations: 0

TOWER PARAMETERS

##	Field Ratio	Phase (degs.)	Spacing (degs.)	Bearing (degs.)	Tower Ref. Switch	Elec. Height (degs.)	Length Twr. A (degs.)	Length Twr. B (degs.)	Length Twr. C (degs.)	Length Twr. D (degs.)
1	0.419	32.3	0.0	0.0	0	175.2	140.2	35.0	0.0	0.0
2	0.956	114.6	89.9	327.0	0	175.2	140.2	35.0	0.0	0.0
3	0.974	-132.5	179.7	327.0	0	175.2	140.2	35.0	0.0	0.0
4	1.000	0.0	269.6	327.0	0	175.2	140.2	35.0	0.0	0.0

FIGURE 11

HORIZONTAL PLANE PATTERN



Field in mV/m

outer curve: x10 scale

Call sign: WWRV  
 Frequency: 1330 kHz  
 Power: 10.000 kW  
 ERSS: 2525.45 mV/m at 1 km  
 Q factor at zero degrees:  
 63.10 mV/m at 1 km  
 Theoretical pattern RMS:  
 1237.00 mV/m at 1 km  
 Standard pattern RMS:  
 1300.54 mV/m at 1 km  
 Modified pattern RMS:  
 0.00 mV/m at 1 km

Coordinates:  
 N40°50'42.00" W74°01'12.00"

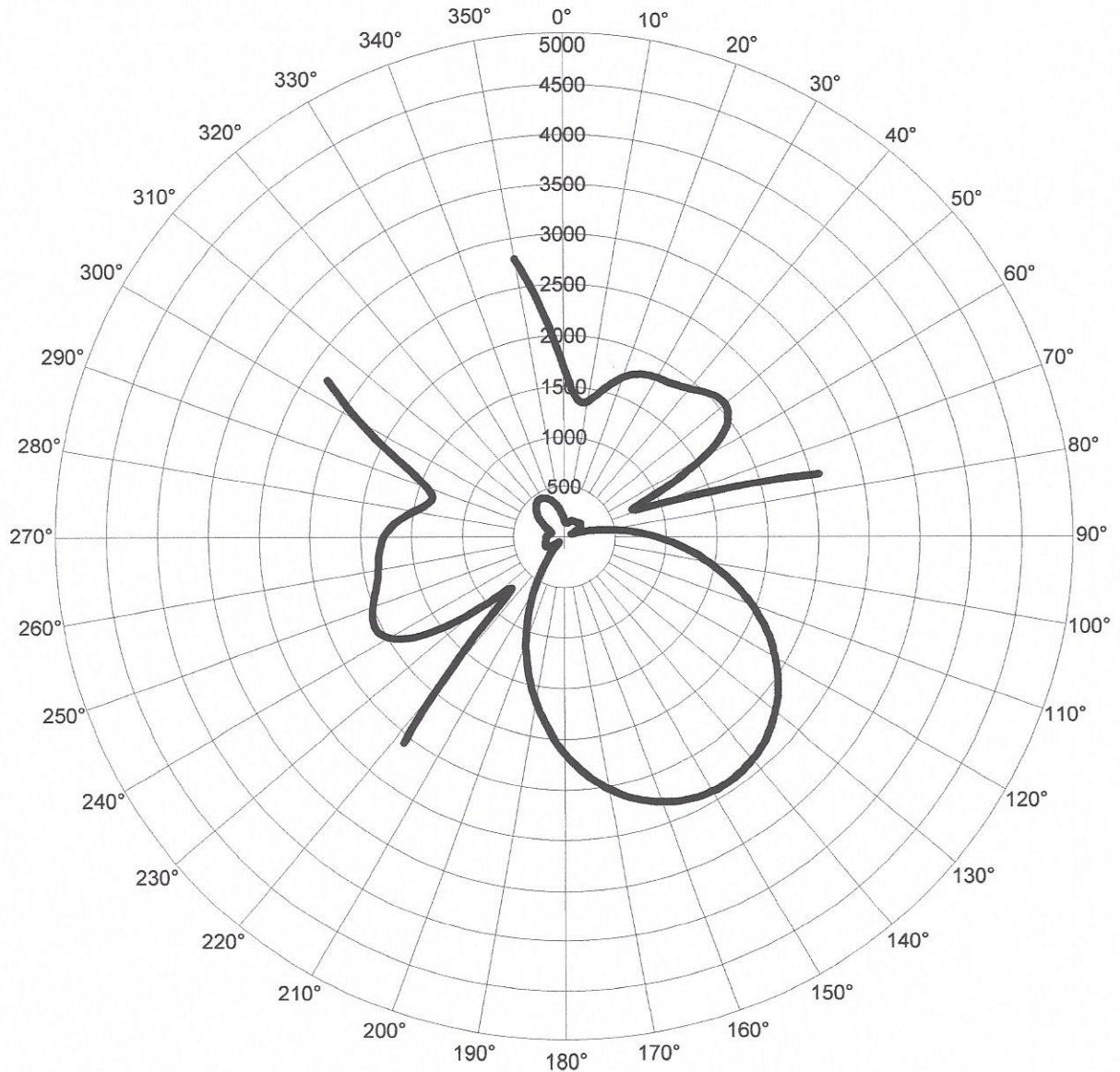
No. of augmentations: 0

TOWER PARAMETERS

##	Field Ratio	Phase (degs.)	Spacing (degs.)	Bearing (degs.)	Tower Ref. Switch	Elec. Height (degs.)	Length Twr. A (degs.)	Length Twr. B (degs.)	Length Twr. C (degs.)	Length Twr. D (degs.)
1	0.346	54.5	0.0	0.0	0	175.2	140.2	35.0	0.0	0.0
2	0.995	-153.4	89.9	327.0	0	175.2	140.2	35.0	0.0	0.0
3	1.000	0.0	179.7	327.0	0	175.2	140.2	35.0	0.0	0.0
4	0.448	149.3	269.6	327.0	0	175.2	140.2	35.0	0.0	0.0

FIGURE 12

HORIZONTAL PLANE PATTERN

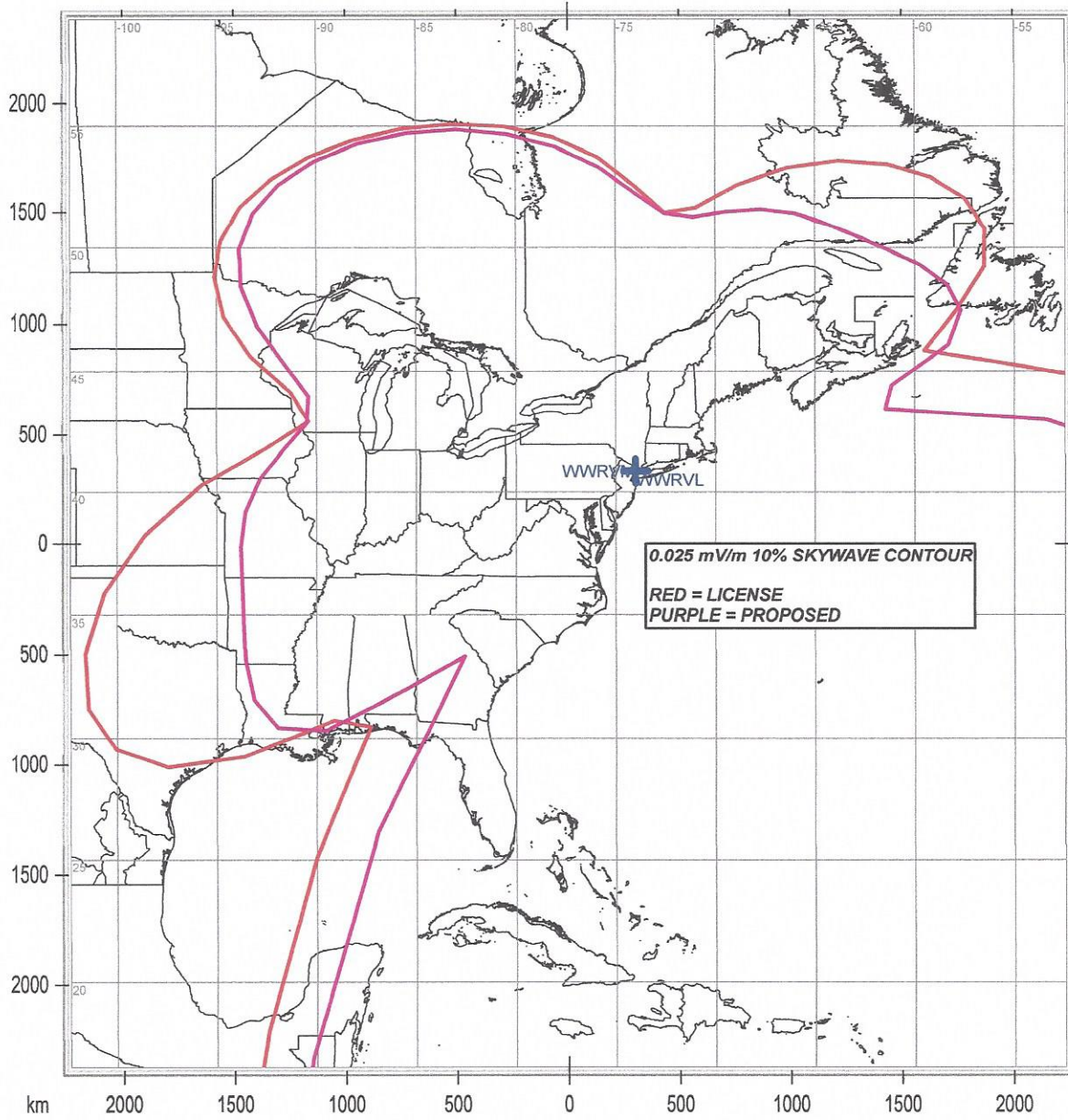


Field in mV/m

outer curve: x10 scale



WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



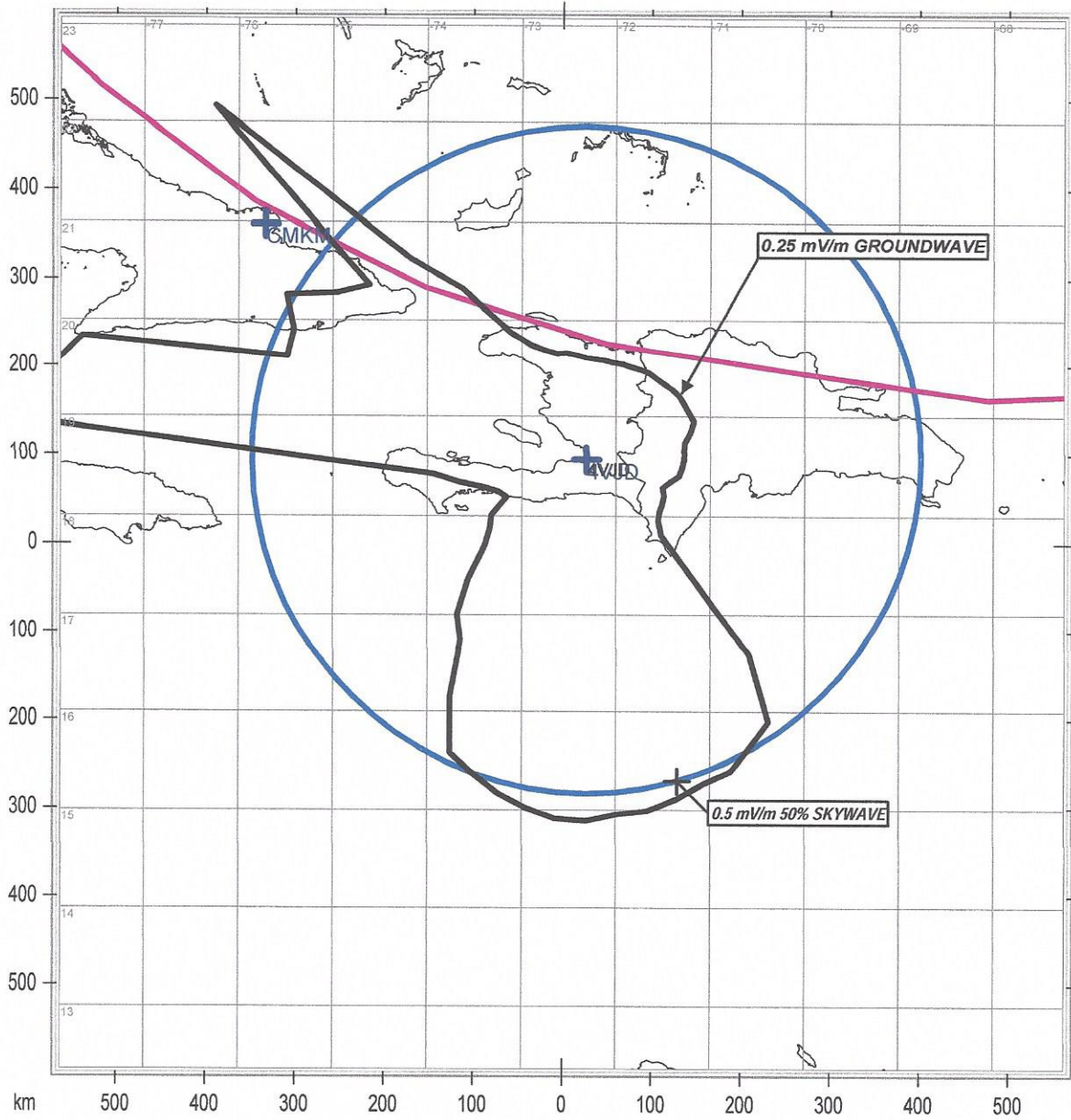
Communications Technologies, Inc. Marlton, New Jersey

— National Borders — Lat/Lon Grid

Map Scale: 1:30000000 1 cm = 300.00 km V/H Size: 4745.55 x 4470.91 km

FIGURE 13

WWRV PROPOSED 1330 kHz 10 kW DA-2 U NEW YORK, NEW YORK



Communications Technologies, Inc. Marlton, New Jersey

— National Borders — Lat/Lon Grid

Map Scale: 1:7500000 1 cm = 75.00 km V|H Size: 1186.39 x 1124.45 km

FIGURE 15