

**AMENDMENT TO
CONSOLIDATED ENGINEERING STATEMENT
PREPARED IN SUPPORT OF APPLICATION
FOR CONSTRUCTION PERMIT
RADIO VISION CRISTIANA MANAGEMENT
3.8/10 kW LS DA-2 U 1330 kHz FAC. ID No. 54874
NEW YORK, NEW YORK**

APRIL 2016

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FCC Form 301, Section III-A - E-filing

ENGINEERING STATEMENT

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SUMMARY

The following consolidated engineering statement has been prepared in support of an amendment to Application for Construction Permit by **RADIO VISION CRISTIANA MANAGEMENT, (“RVC”)**, which proposes to construct new, full-time, standard broadcast facilities for WWRV(AM), 1330 kHz at New York, New York. FCC ID No. 54874 as specified in file number BP-20131104AQW. The amendment is filed in response to a letter from the Audio Division in the FCC Media Bureau denying a request for waiver with respect to compliance with FCC Rule 73.182 in relation to the nighttime co-ch operation of station WENA, Yauco, Puerto Rico. Based on communication with the FCC staff there are believed to be no FCC staff concerns regarding any portion of the day application and WENA was the only nighttime concern. Based on that understanding, RVC has determined that the best amendment approach is to simply reduce the nighttime power from 10 kW to 3.8 kW without changing any of the pattern parameters. This approach would allow WWRV to file for the originally proposed power level at such time as the FCC eliminates the current 25% RSS requirement in 73.182 or begins waiving that requirement as a matter of public interest. No change in daytime facilities is proposed. The Exhibits and Figures found in the original 2013 application that are being amended may be found in the table of contents. The applicant proposes duplexed operation with WZRC(AM), 1460 kHz, New York, New York.

AMENDED EXHIBITS AND FIGURES

The amended nighttime directional antenna theoretical parameters and standard radiation pattern data are in Exhibit III as amended. The DA parameters are unchanged and the power is reduced to 3.8 kW as mentioned previously so that an application can be filed for the originally proposed 10 kW facility without modification.

The RSS night calculation for WENA is attached in Exhibit IV and it 1) comports with data supplied by the FCC staff in terms of international and domestic stations considered and the RSS contributions of each to the total WENA night RSS and 2) demonstrates that the 3.8 kW amended facility does not enter the WENA 25% RSS.

Figure 8, as amended, depicts the proposed 3.5 mV/m NIF contour and the licensed 3.5 mV/m NIF contour with the population for each. In accordance with the Commission's decision in the First Report and Order in MB Docket No. 13-249, released October 23, 2015, that the nighttime community coverage requirement be eliminated for existing licensed AM stations, no analysis of percentage of New York City coverage is provided.

Figure 10 depicts the 1 V/M blanketing contour and the 25 mV/m contour for the amended nighttime operation with the population for each. The application is in compliance with Section 73.24(g) as the population in the blanketing contour is 0.0302% of the population in the 25 mV/m contour. The applicant pledges to comply fully with Rule Section 73.88.

Figure 12 depicts the amended nighttime horizontal plane radiation pattern.

CONCLUSION

The foregoing was prepared on behalf of **RADIO VISION CRISTIANA MANAGEMENT** by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The undersigned certifies, under penalty of perjury, that the statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



By _____

Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey
April 7, 2016

EXHIBIT III

RADIO VISION CRISTIANA MANAGEMENT
 AM BROADCAST STATION WWRV
 NEW YORK, NEW YORK

1330 kHz 3.8 kW, 10 kW-LS U DA-2

NIGHTTIME STANDARD RADIATION PATTERN DATA
 (Radiation Values at One Kilometer)

TOWER Number	Field Ratio	Phase (deg)	Spacing (deg)	Bearing (deg)	Tower Height (deg)	Top Loading (deg)
-----	-----	-----	-----	-----	-----	-----
1	0.346	+54.5	0.0	0.0	140.2	35.0
2	0.995	-153.4	89.9	327.0	140.2	35.0
3	1.000	+0.0	179.7	327.0	140.2	35.0
4	0.448	+149.3	269.6	327.0	140.2	35.0

Input Power (kW)	Loop Loss (ohms)	Theoretical RMS (mV/m)	RSS (mV/m)	Q Factor (mV/m)	Standard RMS (mV/m)
-----	-----	-----	-----	-----	-----
3.80	1.00	762.3	1556.	38.9	801.4

EXHIBIT III

NIGHTTIME STANDARD RADIATION PATTERN DATA
 WWRV, NEW YORK, NEW YORK

STANDARD RADIATION
 (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	104.	101.	93.3	82.1	70.6	61.3	54.6
5	86.1	84.5	80.3	74.7	69.0	63.8	58.8
10	84.9	84.1	82.0	78.8	74.7	69.8	63.9
15	94.1	93.4	91.2	87.6	82.5	76.0	68.2
20	104.	103.	100.	95.2	88.5	80.2	70.9
25	110.	109.	105.	99.5	91.7	82.4	72.2
30	113.	112.	108.	101.	93.2	83.6	73.2
35	115.	114.	110.	103.	95.0	85.4	74.9
40	119.	118.	114.	107.	98.6	88.7	77.8
45	125.	123.	119.	112.	103.	92.3	80.7
50	127.	126.	121.	114.	104.	93.2	81.2
55	120.	119.	114.	107.	98.4	87.9	76.5
60	97.8	96.7	93.4	88.1	81.2	73.0	64.1
65	59.8	59.3	57.9	55.5	52.3	48.4	43.9
70	54.5	53.3	50.0	45.1	39.3	33.5	28.3
75	137.	134.	125.	111.	94.0	75.5	57.4
80	256.	250.	234.	210.	179.	146.	113.
85	397.	389.	365.	328.	282.	231.	181.
90	554.	542.	510.	459.	396.	326.	257.
95	719.	705.	663.	598.	517.	428.	338.
100	887.	870.	819.	740.	641.	532.	422.
105	1052.	1031.	972.	879.	763.	635.	504.
110	1207.	1184.	1116.	1011.	879.	733.	584.
115	1349.	1323.	1248.	1132.	986.	823.	657.
120	1474.	1446.	1365.	1239.	1081.	904.	723.
125	1579.	1550.	1464.	1330.	1162.	973.	780.
130	1664.	1633.	1544.	1404.	1227.	1029.	826.
135	1728.	1696.	1603.	1459.	1276.	1071.	861.
140	1769.	1737.	1642.	1495.	1309.	1099.	884.
145	1789.	1756.	1661.	1512.	1324.	1112.	895.
150	1787.	1754.	1659.	1510.	1322.	1111.	894.
155	1763.	1730.	1636.	1489.	1303.	1095.	880.
160	1717.	1685.	1593.	1449.	1268.	1064.	855.
165	1649.	1618.	1529.	1390.	1215.	1019.	818.
170	1560.	1530.	1446.	1313.	1147.	960.	769.
175	1450.	1423.	1343.	1219.	1063.	889.	711.

EXHIBIT III

NIGHTTIME STANDARD RADIATION PATTERN DATA
 WWRV, NEW YORK, NEW YORK

STANDARD RADIATION
 (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)
0	49.6	44.3	38.2	31.3	24.4	18.2
5	53.3	46.8	39.4	31.7	24.5	18.3
10	56.8	48.8	40.3	32.1	24.7	18.5
15	59.4	50.1	40.8	32.3	24.9	18.7
20	60.9	50.8	41.2	32.6	25.2	19.0
25	61.6	51.3	41.7	33.1	25.7	19.4
30	62.5	52.2	42.6	33.9	26.3	19.8
35	64.2	53.7	43.9	34.9	27.0	20.2
40	66.7	55.7	45.3	35.8	27.5	20.4
45	68.8	57.2	46.2	36.3	27.6	20.4
50	68.9	56.9	45.7	35.7	27.1	19.9
55	64.8	53.5	43.0	33.6	25.5	18.8
60	55.0	45.9	37.4	29.6	22.8	17.1
65	39.0	33.9	28.7	23.6	18.9	14.6
70	24.2	21.1	18.6	16.3	14.0	11.6
75	41.2	28.0	18.5	12.7	9.92	8.51
80	82.3	56.4	35.9	21.1	11.7	7.11
85	134.	93.3	60.8	36.5	19.8	9.76
90	192.	135.	89.6	55.0	30.7	15.2
95	254.	181.	121.	75.2	42.9	21.8
100	318.	227.	153.	96.3	55.7	28.9
105	382.	274.	186.	118.	68.7	36.2
110	443.	320.	217.	138.	81.4	43.3
115	501.	362.	247.	158.	93.4	50.1
120	552.	400.	274.	176.	104.	56.4
125	596.	433.	297.	191.	114.	61.8
130	633.	460.	317.	204.	122.	66.4
135	660.	481.	331.	214.	128.	69.9
140	679.	495.	341.	221.	132.	72.2
145	687.	501.	346.	224.	134.	73.4
150	686.	501.	345.	223.	134.	73.2
155	676.	493.	340.	219.	132.	71.9
160	655.	478.	329.	212.	127.	69.3
165	626.	456.	313.	202.	121.	65.6
170	588.	427.	293.	188.	112.	60.8
175	542.	393.	269.	172.	102.	55.2

EXHIBIT III

NIGHTTIME STANDARD RADIATION PATTERN DATA
 WWRV, NEW YORK, NEW YORK

STANDARD RADIATION
 (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)
180	1322.	1296.	1223.	1109.	966.	806.	643.
185	1177.	1154.	1088.	986.	857.	714.	568.
190	1020.	1000.	942.	852.	739.	614.	488.
195	854.	837.	788.	712.	616.	511.	405.
200	686.	672.	632.	570.	493.	407.	321.
205	521.	511.	480.	432.	372.	307.	241.
210	367.	360.	337.	303.	260.	213.	166.
215	230.	225.	211.	188.	161.	131.	101.
220	117.	114.	106.	94.4	79.7	63.9	48.5
225	46.8	46.0	43.7	40.3	36.4	32.5	28.9
230	68.0	67.4	65.6	62.6	58.6	53.8	48.4
235	104.	102.	98.9	93.1	85.6	76.8	67.3
240	123.	121.	117.	110.	100.	89.6	77.9
245	127.	126.	121.	114.	104.	93.4	81.4
250	124.	122.	118.	111.	102.	91.6	80.2
255	118.	117.	113.	106.	97.7	87.9	77.2
260	114.	113.	109.	103.	94.5	84.9	74.5
265	113.	111.	107.	101.	92.9	83.3	72.9
270	109.	108.	105.	98.9	91.2	82.1	72.0
275	102.	101.	98.6	93.9	87.5	79.6	70.5
280	92.0	91.3	89.2	85.8	81.0	74.8	67.4
285	83.9	83.1	80.8	77.4	73.3	68.5	62.9
290	88.4	86.5	81.7	75.1	68.6	62.9	57.8
295	110.	107.	97.6	85.1	72.1	61.5	54.1
300	143.	138.	125.	106.	85.1	66.7	53.7
305	180.	174.	157.	132.	104.	77.3	57.3
310	214.	207.	187.	157.	123.	90.1	63.4
315	243.	235.	213.	179.	140.	102.	70.0
320	263.	255.	231.	195.	153.	111.	75.2
325	273.	265.	239.	202.	159.	115.	78.0
330	272.	263.	238.	201.	158.	115.	77.7
335	260.	252.	228.	192.	151.	109.	74.3
340	238.	230.	208.	175.	137.	99.8	68.7
345	208.	201.	181.	152.	119.	87.5	62.0
350	172.	167.	150.	126.	99.7	74.9	56.3
355	136.	131.	119.	101.	81.9	65.1	53.5

EXHIBIT III

NIGHTTIME STANDARD RADIATION PATTERN DATA
 WWRV, NEW YORK, NEW YORK

STANDARD RADIATION
 (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)
180	490.	354.	241.	154.	91.1	48.8
185	431.	311.	211.	134.	78.9	41.9
190	369.	265.	179.	113.	66.1	34.7
195	305.	218.	147.	92.1	53.1	27.4
200	241.	171.	114.	71.1	40.4	20.4
205	180.	127.	83.6	51.1	28.4	14.0
210	123.	85.4	55.4	33.1	17.9	8.93
215	73.1	49.8	31.6	18.6	10.7	7.11
220	35.0	24.3	16.8	12.6	10.5	9.09
225	25.8	23.0	20.4	17.8	15.0	12.3
230	42.6	36.6	30.6	25.0	19.8	15.2
235	57.5	47.8	38.8	30.6	23.5	17.5
240	66.1	54.5	43.8	34.2	25.9	19.1
245	69.1	57.2	46.0	35.9	27.2	20.0
250	68.5	57.0	46.1	36.2	27.6	20.4
255	66.1	55.3	45.0	35.7	27.4	20.4
260	63.8	53.4	43.6	34.7	26.8	20.1
265	62.3	52.0	42.4	33.7	26.2	19.7
270	61.5	51.2	41.6	33.0	25.6	19.3
275	60.6	50.7	41.2	32.5	25.1	18.9
280	58.9	49.8	40.8	32.3	24.8	18.7
285	56.1	48.4	40.1	32.0	24.6	18.5
290	52.5	46.3	39.2	31.6	24.5	18.3
295	48.9	43.8	37.9	31.1	24.3	18.2
300	46.2	41.4	36.4	30.5	24.1	18.1
305	45.4	39.4	35.0	29.8	23.9	18.1
310	46.4	38.2	33.7	29.2	23.7	18.0
315	48.4	37.7	32.8	28.6	23.5	18.0
320	50.4	37.6	32.2	28.2	23.3	17.9
325	51.6	37.7	32.0	28.0	23.3	17.9
330	51.5	37.7	32.0	28.1	23.3	17.9
335	50.1	37.6	32.3	28.3	23.4	17.9
340	48.0	37.7	33.0	28.7	23.5	18.0
345	46.1	38.3	34.0	29.3	23.7	18.0
350	45.4	39.7	35.3	30.0	24.0	18.1
355	46.6	41.8	36.7	30.7	24.2	18.2

EXHIBIT IV

RSS NIGHT LIMIT CALCULATION

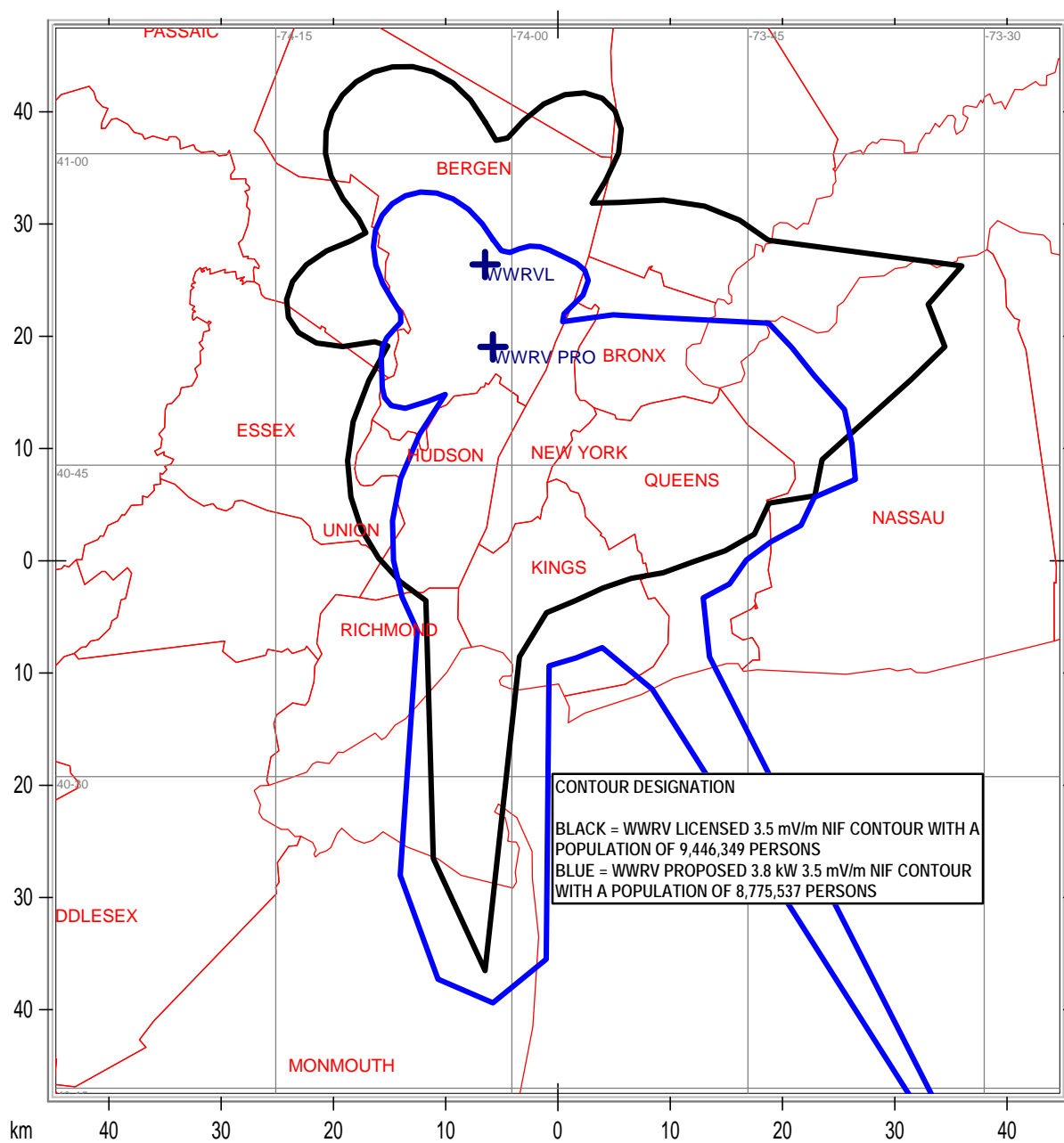
WENA 1330 kHz YAUCO, PUERTO RICO

WITH WWRV NIGHT AMENDED FACILITY

APRIL 2016

AM Night Interference Free for WENA															
Report ... Send to XMIT															
Call	Freq	Country	City	Use	Class	Dist	Azimuth	Radiation on Gnd	Min Elev	Max Elev	Max Radiation	SkyWave	Interf Limitation	RSS Lim 50%	RSS Lim 25%
YVOY	1330	VE	CALABOZO	On	C	1016.0	183.96 / 003.81	692.0	5.8	10.9	686.9	0.061028	8.384	8.384	8.384
YVPJ	1330	VE	RUBIO	On	C	1291.7	207.88 / 026.66	692.0	3.4	7.6	690.0	0.043794	6.044	10.335	10.335
HJNR	1330	CO	S GIL 1	On	C	1447.3	208.71 / 027.37	692.0	2.4	6.1	691.1	0.037359	5.164	0.000	11.553
WYRD	1330	US	GREENVILLE	On	B	2421.4	323.61 / 136.57	1536.8	0.0	0.2	1536.8	0.011547	3.549	0.000	12.086
WWRV3.8	1330	US	NEW YORK	On	B	2626.6	346.40 / 162.81	1681.3	0.0	0.0	1681.3	0.008935	3.004	0.000	0.000
WWRV LIC	1330	US	NEW YORK	On	B	2633.9	346.43 / 162.83	1474.5	0.0	0.0	1474.5	0.008880	2.619	0.000	0.000

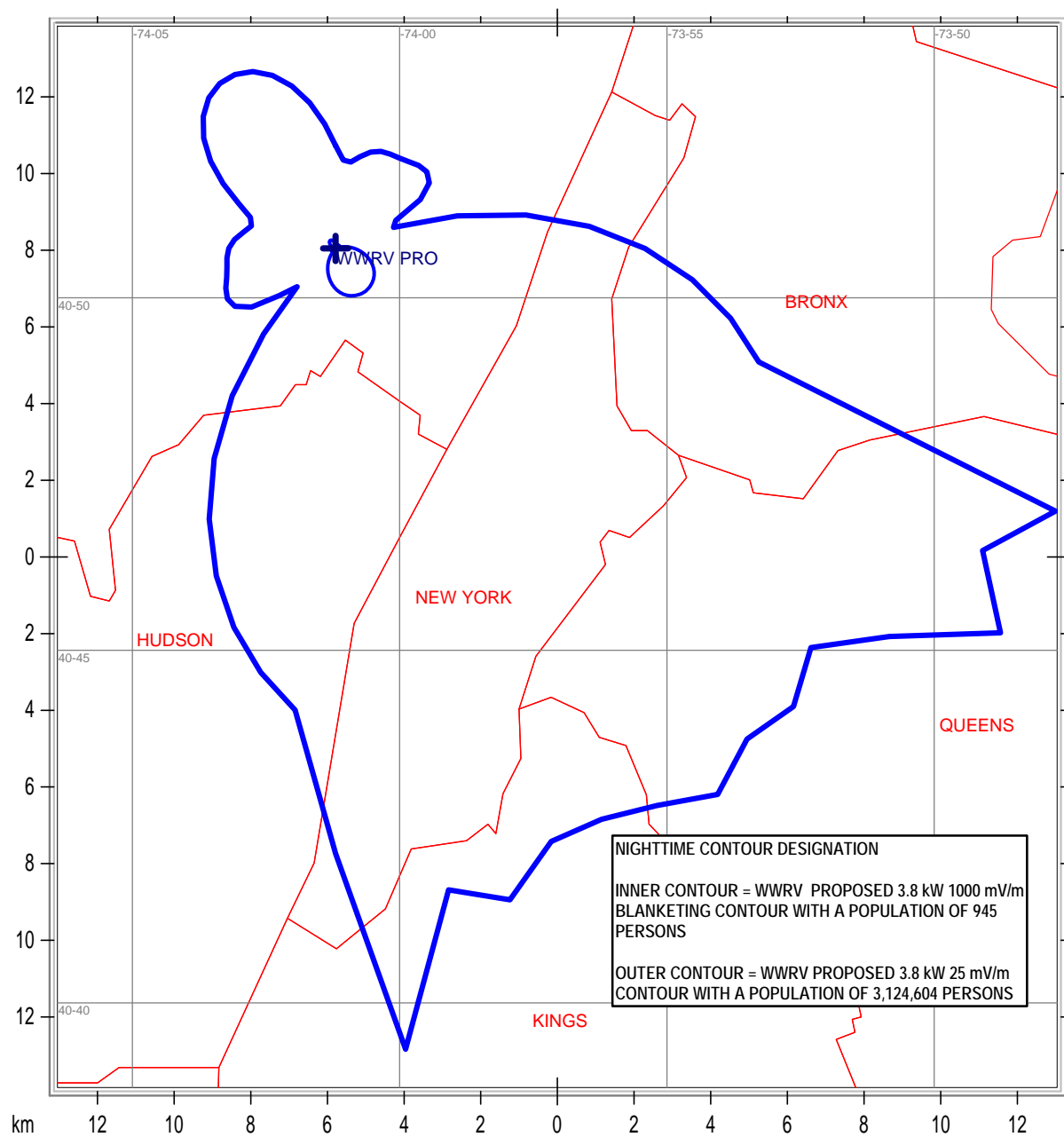
WWRV PROPOSED 1330 kHz 3.8 kW DA NIGHT NEW YORK, NEW YORK



Communications Technologies, Inc. Marlton, New Jersey

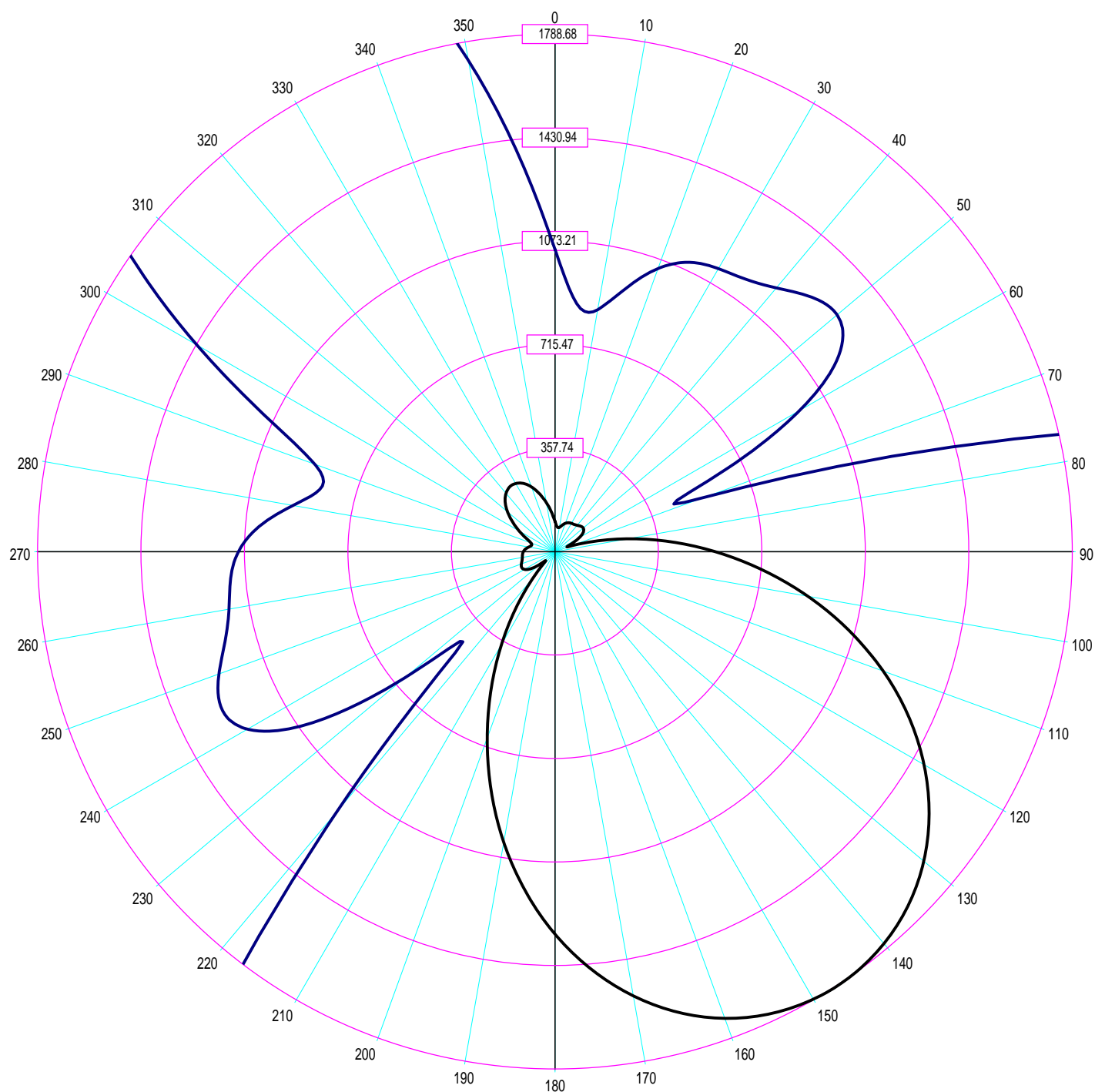
County Borders Lat/Lon Grid

WWRV PROPOSED 1330 kHz 3.8 kW DA NIGHT NEW YORK, NEW YORK



Communications Technologies, Inc. Marlton, New Jersey

County Borders Lat/Lon Grid



Callsign	: WWRV PRO	T#	Field	Phase	Spacing	Orientation	Height	Top Load	Tower Ref
Frequency	: 1330 kHz	1	0.346	54.5	0.0	0.0	140.2	35.0	0
Power	: 3.800 kw	2	0.995	206.6	89.9	327.0	140.2	35.0	0
ERSS	: 1556 mV/m/km	3	1.000	0.0	179.7	327.0	140.2	35.0	0
Theoret. Pattern RMS	: 762.3 mV/m/km	4	0.448	149.3	269.6	327.0	140.2	35.0	0
Standard Pattern RMS	: 801.4 mV/m/km								
Modified Pattern RMS	:								
Latitude	: 40-50-42.0 N								
Longitude	: 74-01-12.0 W								
Number Augmentations	: 0								