

ENGINEERING EXHIBIT
APPLICATION FOR MODIFICATION OF LICENSE
prepared March 2017 for
New World Radio, Inc.
WUST Washington, D.C. (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

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FCC Form 301, Section III-A

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Exhibit 13 - Statement A

Comprehensive Engineering Statement Application for Modification of License

prepared for
New World Radio, Inc.

WUST Washington, D.C. (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Nature of the Proposal

New World Radio, Inc. (“*New World*”) is the licensee of Standard Broadcast Station WUST, Washington, D.C. (FCC Facility ID 48686) (the “Station”). WUST is presently licensed to operate with 50 kW using a direction antenna system during daytime hours and 3 kW during critical hours using a non-directional antenna (see FCC File Number BMML-20141218AFW). The licensed WUST operation shares its transmitter site with AM stations WJFK, Morningside, Maryland (Facility ID 28638), which is the “host” station, and WZHF, Capitol Heights, Maryland (Facility ID 73306). A triplexing system is in place to allow all three facilities to use these towers without mutual impact. *New World* herein seeks FCC authority to add a 0.05 kW directional nighttime operation for WUST using the existing towers established at this site. *No change is proposed in WUST's licensed daytime or critical-hours operations.* No new tower construction will be required and no physical changes will be made to the existing towers in order to accommodate the proposed nighttime operation. No changes will be made to the WUST daytime or critical hours operations. The use of common, existing sites is preferred by the Commission and is encouraged under its environmental rules.

Since the presently licensed daytime/critical-hours facility is being specified for this proposal, a considerable amount of information regarding this site is already on file with the FCC. Therefore, it is not duplicated herein, except for Form sections required for completeness. However, *New World* will promptly supply this information if necessary upon the request of Commission staff.

Description of Proposed Nighttime Antenna System

The nighttime antenna system design proposed in this application will employ the same four towers that are presently being used for the WUST daytime operation. The proposed 0.05 kW nighttime antenna parameters are described in **Exhibit 13 - Table I**. A tabulation of the resulting horizontal plane standard radiation pattern data is also included in **Table I**. This data is plotted on the polar graph supplied as **Exhibit 13 - Figure 1**. Tabulations and plots of radiated fields at various elevation angles are not included for brevity reasons, but will be provided upon request.

The existing towers, which are being used for this proposal, are series fed, base insulated, uniform-cross-section, guyed steel structures. Tower height information used in this and prior applications was obtained from WJFK station records, as contained in File No. BMML-20151026AIV. Referencing that data, each antenna structure is 48.46 meters in overall height, or 47.46 meters above the base insulator. The resulting electrical height is 63.83° at 1120 kHz.

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The respective assigned FCC Antenna Structure Registration Numbers (ASRN) for the existing tower array are:

Tower Number	FCC ASRN
1 (South)	1292062
2 (West)	1292059
3 (East)	1292061
4 (North)	1292060

For the purposes of this application, tower numbering will remain the same as above since this scheme is presently being used by all the stations sharing this site; the array geometrical reference is therefore established with respect to the South Tower – **Tower 1**. However the array electrical reference for the proposed new WUST nighttime operation will be **Tower 3**, as shown in the antenna parameter information provided in the application Form, **Exhibit 13 - Table I**, and the summary shown below.

Tower Number	Field Ratio	Phase	Spacing	Bearing	Electrical Height
1 (S)	0.422	107.3°	0.00°	0.0°	63.83°
2 (W)	0.647	165.9°	106.21°	10.2°	63.83°
3 (E)	1.000	0.0°	98.81°	45.0°	63.83°
4 (N)	0.202	118.9°	195.90°	27.0°	63.83°

Description of Ground System

The ground system for this site consists of 120 buried radial wires (#10 AWG – soft drawn copper) equally spaced at 3 degree intervals around each tower base, 220 feet (67.1 m or 90.2° at 1120 kHz) in length, except where foreshortened and terminated to transverse copper straps. An additional 120 radials, each 50 feet (15.2 m or 20.5° at 1120 kHz) in length, is interspersed between the longer radials. Additional copper strap is buried between the towers. Extruded copper mesh screens are placed atop each tuning unit support and are then tied into the ground system by a series of 4 inch wide copper straps. Copper rods are also incorporated into the base grounding system for additional lightning protection.

Blanketing Considerations

The location of the predicted 1.0 V/m (or 1000 mV/m) “blanketing contour” that is developed under this nighttime proposal is shown in the attached **Exhibit 13 - Figure 2**. According to 2010 U.S. Census data, there is no population residing within the predicted 1.0 V/m contour; there are 20,909 persons residing within the predicted 25 mV/m contour. As such, this proposal meets the requirements of Section 73.24(g) of the Rules in that the population within the 1 V/m contour does not exceed more than 1 percent of the population residing within the predicted 25 mV/m contour and, further, the population within the 1.0 V/m contour is less than 300 persons.¹ Since there is no change in the day or critical hours operation, it is respectfully requested that any issued CP for night operation not include a “condition” requiring the addressing of new blanketing complaints.

¹ Daytime blanketing considerations were originally addressed in the Station’s daytime Application for Construction Permit for this site (see FCC File No. BP-20130926BCX).

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Coverage Predictions

Theoretical (*FCC Figure M-3*) conductivity data were used for all distance to groundwave contour predictions using the FCC's standard prediction methods and a computer program that simulates the Commission's AM groundwave propagation curves. *Figure M-3* values and boundary locations are not shown on the provided map given its scale and the locations of the nearest conductivity lines; however, the map and the predicted contours lie well within the Conductivity 4 region. No tabulation is provided herewith for the distance to contour locations or associated ground conductivity values since all are derived from theoretical values. If a tabulation of this information is desired by Commission staff, it will be supplied upon request.

Pertinent nighttime coverage contours (the 1000 mV/m “blanketing” contour, the 25 mV/m contour and the 17.383 mV/m (hereinafter 17.4 mV/m) nighttime “interference free” contour) are included in the map attached as **Exhibit 13 – Figure 2**. The calculations that determine the proposed nighttime interference free limit are shown in **Table II of Exhibit 13**. Based upon 2010 U.S. Census data, the proposed 17.4 mV/m Nighttime Interference Free contour will encompass 30,155 persons.

The 5.0, 2.0 and 0.5 mV/m “standard” AM coverage contours are not plotted or presented in this application since they fall well outside the Nighttime Interference Free contour and are thus not pertinent. Maps showing the licensed daytime coverage contours also are not included in this application since they are not being altered and are already a matter of record for this Station. Maps showing this information will be provided upon request.

Principal Community Coverage

The map of **Exhibit 13 – Figure 2** shows the location of the proposed Nighttime Interference Free contour along with the nearest portion of the Station's community of license boundary (Washington, D.C.). As shown, the NIF contour does not encompass Washington, D.C. However, nighttime coverage of a community of license is not required for Class D stations and is also no longer required for existing licensed stations per Paragraphs 26 – 30 of the Commission's **First Report and Order, Further Notice of Proposed Rule Making, and Notice of Inquiry** in the Matter of Revitalization of the AM Radio Service, 30 FCC Rcd 12145 (2015). (The Commission proposed in the underlying NPRM that the nighttime community of license coverage requirement be eliminated for existing licensed AM stations. This proposal was adopted by the FCC as discussed in the Report and Order.)

Protection of Other Facilities

With respect to nighttime frequency interference and allocation matters, the protection requirements for all pertinent co-channel and first adjacent channel stations and proposals of interest were developed in accordance with the methods specified in the Commission's Rules. Interference impacts were predicted on a site-to-site basis, except for Class A AM stations, where the procedures of FCC Rules Section 73.182(q) were employed.

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Comprehensive Engineering Statement
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The resulting antenna design is described in **Exhibit 13 - Table I** and **Figure 1**, and is based upon the site location, existing infrastructure, and channel allocation/interference constraints. **Exhibit 13 - Table III** shows how the facilities proposed herein do not enter into the 25% RSS night limit calculation of any other licensed or proposed non-Class A AM station. Protection of pertinent Class A AM stations is discussed in the following paragraphs.

Only one domestic “Class A” AM station utilizes a frequency of concern for this proposal – that being co-channel KMOX St. Louis, Missouri. There are four first adjacent channel Class A AM stations requiring scrutiny - WBBR New York, New York, WBT Charlotte, North Carolina, KWKH Shreveport, Louisiana, and KFAB Omaha, Nebraska. With respect to co-channel KMOX, **Exhibit 13 - Figure 3** shows the relative position of the proposed 25 μ V/m 10% Skywave contour versus the KMOX 500 μ V/m 50% Skywave Contour. Detailed skywave calculations also demonstrating protection of KMOX are included in the attached **Exhibit 13 – Table IV**. Regarding the first-adjacent channel Class A AM stations, **Exhibit 13 - Figure 4** shows that the Station’s proposed 250 μ V/m 10% Skywave contour does not overlap any of the first adjacent Class A station 500 μ V/m groundwave contours within United States territory, thus demonstrating compliance with FCC Rules Section 73.182(q). **Exhibit 13 - Table V**, provides pertinent skywave calculations also showing protection of each of the pertinent domestic first adjacent Class A AM stations

Other Interference Considerations

The site employed in this application is located over 470 km from the Canadian border and over 2300 km from the Mexican border. As such, this proposal will not have a material impact on any facility operating in Canada, Mexico or any other country. No prohibited contour overlap occurs with respect to stations in either Mexico or Canada.

The proposed Station operation will not have an adverse impact on any known and identified “quiet zones” in that the nearest facility, the Green Bank NRAO Quite Zone, is located more than 145 km distant.

The nearest FCC Monitoring Station is located at Laurel, Maryland, 33.48 km from the site. FCC Rules Section 73.1030(c)(3) states that all stations within 80 km with 25 kW or more of average ERP toward the monitoring station seek advance coordination with the Commission. Since Station’s propose nighttime operation is 0.05 kW, well below the 25 kW threshold, advance coordination is not necessary in this regard². No changes are proposed to the authorized Station daytime or critical hours operation.

² The impact of the already licensed daytime operation has been addressed previously and was found to be of no consequence. (See FCC File Number BP-20130926BCX and BMML-20141218AFW.)

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Other than the other collocated stations (WJFK and WZHF), there are no other AM broadcast stations located within 3.2 km of the site according to information contained within the Commission's engineering database. With respect to these existing facilities, appropriate measures (the use of filters and traps) have already been taken to ensure that no undesired interaction or unacceptable levels of spurious emissions will occur. The addition of the proposed Station nighttime operation is not expected to introduce the issues due to the very low power level being proposed and the fact that the new phasing and coupling equipment will be installed behind the existing filter systems. Further, as has been documented in prior filings with the FCC, firm agreements exist between all parties fixing responsibility for the installation and maintenance of suitable filtering and suppression equipment to prevent undesired interaction and intermodulation interference.

According to information contained within the Commission's engineering database, the main and auxiliary FM facilities of Station WPGC-FM, Morningside, MD, are located with 1.42 km of the site; however, given the vast difference in frequency, no undesired impact is expected to occur. Based on a similar database search, there are no TV broadcast stations located within 10 km of the site. No airports or established helicopter landing facilities are located within 5 km of the site.

Environmental Considerations

FCC Rule Section 1.1307(a)(1-8) Compliance: This proposal specifies the use of existing towers and transmitter site with no new construction and no changes to the existing tower structures. Further, no new site trenching or construction will be necessary. According to the notes contained in FCC Rules Section 1.1306, the use of existing towers and sites is deemed to be an environmentally desirable alternative to the construction of new tower facilities. Accordingly, this proposal is excluded from the provisions of Section 1.1306 of the FCC's Rules and is not subject to environmental processing.

RF Exposure Considerations: The proposed nighttime operation³ at this site was evaluated for human exposure to radiofrequency energy using the procedures outlined in the Commission's OET Bulletin No. 65 ("OET-65"). OET-65 describes a means of determining whether a proposed facility exceeds the radiofrequency exposure guidelines adopted in Section 1.1310. Under present Commission policy, a facility may be presumed to comply with the limits specified in Section 1.1310 if it satisfies the exposure criteria set forth in OET-65. Based upon that methodology and as demonstrated in the following, the proposed nighttime transmitting system will comply with those guidelines.

³ The licensed daytime WUST operation has been addressed in FCC File Number BMML-20141218AFW and found to be in compliance.

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Since this site hosts more than one transmitting station (no other known RF emitters are located within a kilometer of this site), consideration is given to the potential impact of all site triplexing participants⁴. However, while it is herein proposed to triplex the WUST 0.05 kW nighttime directional facility into the same antenna array with the existing WJFK 0.27 kW and WZHF 1 kW nighttime directional operations, a “worst case” scenario has already been developed for the licensed higher power daytime operations (by assuming that 50 kW is being fed into each tower by WUST, 50 kW by WJFK, and 12 kW by WZHF). Based upon these daytime power levels, an initial analysis of RF levels using the methodology of OET-65 indicated that a suitable fence distance from each tower base should be 7.62 meters (25 feet), which resulted in a calculated total electrical field at the fence perimeter of 74.1% of the uncontrolled/general population limit. (The calculated magnetic field would be 96.9% of this limit.) These “worst case” daytime calculations are repeated in the table shown below.

Station <u>Call</u>	<u>Assumed Facilities</u>		<u>Uncontrolled/Gen Pop Environment</u>				
	<u>Electrical Height</u>	<u>“Worst Case” Power</u>	<u>WJFK</u>	<u>MPE</u>	<u>Value</u>	<u>Percent</u>	
WJFK	90°	50 kW	<u>E (V/m):</u>	521.519	59.25555	1.29%	
			<u>H (A/m):</u>	1.386076	0.733977	28.04%	
WZHF	79.22°	9 kW	<u>WZHF</u>	<u>MPE</u>	<u>Value</u>	<u>Percent</u>	
			<u>E (V/m):</u>	592.8058	119.8004	4.08%	
WUST	63.83°	50 kW	<u>WUST</u>	<u>MPE</u>	<u>Value</u>	<u>Percent</u>	
			<u>E (V/m):</u>	614	509.0637	68.74%	
			<u>H (A/m):</u>	1.63	1.263562	60.09%	
			Total	<u>E (V/m):</u>	74.11%		
			Total	<u>H (A/m):</u>	96.90%		

Actual operating values should be less, since the transmitter output power from each station would be distributed between the four towers and nighttime operating power levels will be far less than those analyzed above. As Such, excessive levels of RF energy will not be caused at accessible areas near any of the towers or at the site since the site is secured by a perimeter fence and there is an existing, locked fence enclosing each tower base that is no closer than 7.62 meters (25 feet) from any energized conductor. Further RF exposure and warning signs are posted. As a result, members of the general public are not expected to be exposed to RF energy in excess of the FCC’s published guidelines.

⁴ The existing nighttime operations of the other two collocated facilities (WZHF and WJFK) were addressed in their respective applications for license – see BMML-20151020AJS and BMML-20151026AIV respectively.

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Safety of Tower Workers and the General Public

With respect to worker safety, a site exposure policy is employed protecting authorized workers from excessive exposure when work must be performed in the vicinity of or on the tower. Such protective measures include, but are not limited to, restriction of access to areas where levels in excess of the guidelines may be expected, power reduction, occupancy time limits, or the complete shutdown of facilities when work or inspections must be performed in areas where the exposure guidelines will be exceeded. Further, no tower worker is permitted to climb an energized tower. On-site RF exposure measurements may also be undertaken to establish, to a more precise extent, the bounds of safe (controlled) working areas.

Conclusion

Based on the preceding, it is believed that the instant proposal may be categorically excluded from environmental processing under Section 1.1306 of the Rules. It is further believed that the WUST proposed nighttime operation meets all pertinent FCC allocation, interference, and coverage rules.

Exhibit 13 – Table I
Daytime Directional Antenna Parameters – Standard Pattern Data

prepared March 2017 for

New World Radio, Inc.

WUST Washington, DC (FCC Facility ID 48686)

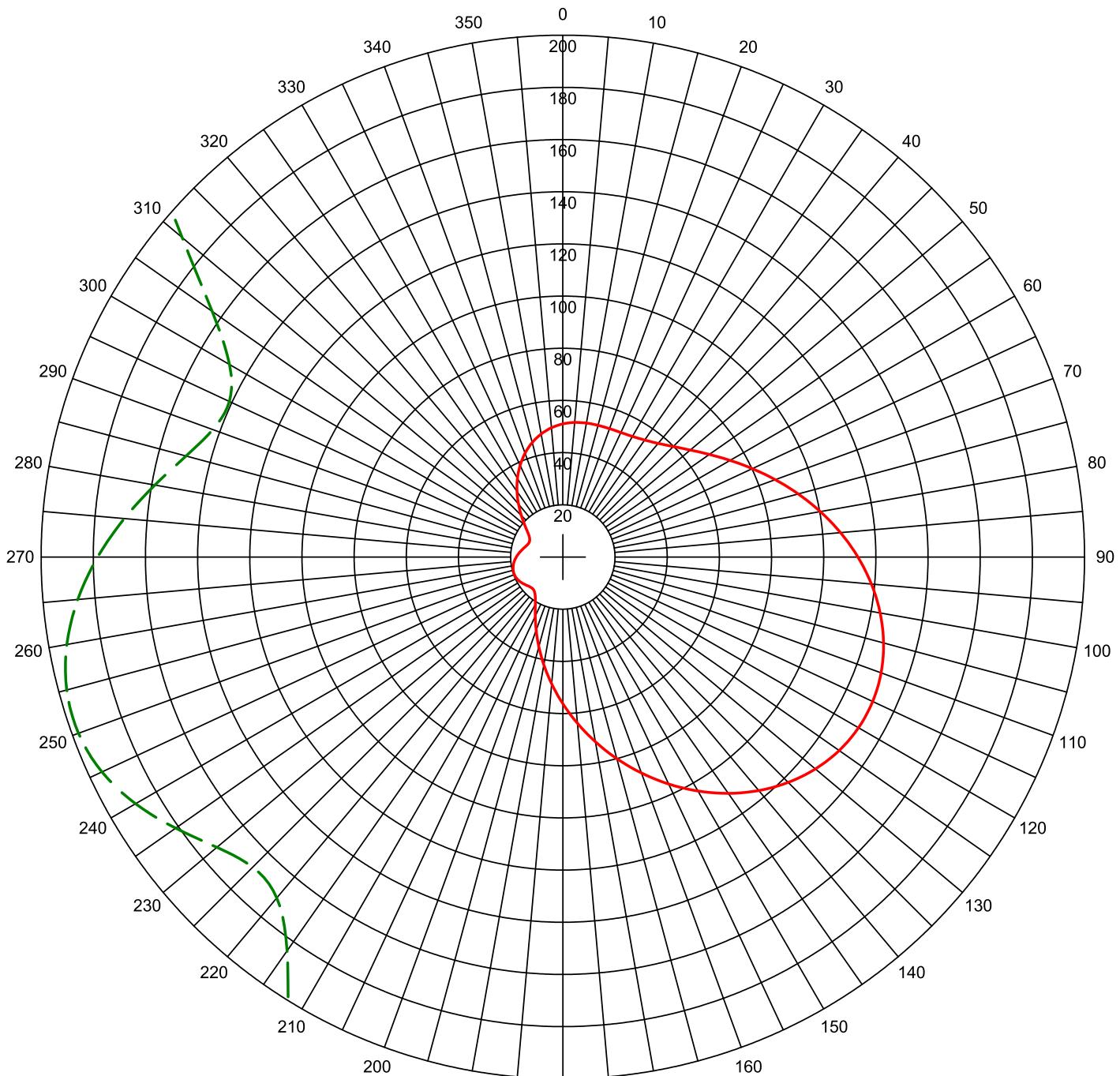
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Tower Number	Tower ASRN	Field Ratio	Phase (deg)	Spacing (deg)	Bearing (deg)	Height (deg)
1 South	1292062	0.422	107.3	0.00	0.0	63.83
2 West	1292059	0.647	165.9	106.21	10.2	63.83
3 East	1292061	1.000	0.0	98.81	45.0	63.83
4 North	1292060	0.202	118.9	195.90	27.0	63.83
Input Power (kW)	Loop Loss (ohms)		Theoretical		Q Factor	Standard RMS (mV/m)
0.05	1.0		RMS (mV/m)	RSS (mV/m)	(mV/m)	(mV/m)
			65.049	102.53	10.0	69.104

Standard Horizontal Pattern Radiation Pattern

Azimuth (Deg)	Field (mV/m @1 km)	Azimuth (Deg)	Field (mV/m @1 km)	Azimuth (Deg)	Field (mV/m @1 km)
0	51.01	120	130.90	240	18.91
5	51.76	125	129.32	245	19.49
10	52.12	130	126.39	250	19.76
15	52.25	135	122.19	255	19.69
20	52.35	140	116.86	260	19.31
25	52.65	145	110.60	265	18.66
30	53.37	150	103.58	270	17.83
35	54.72	155	96.02	275	16.88
40	56.86	160	88.10	280	15.88
45	59.88	165	80.01	285	14.96
50	63.79	170	71.92	290	14.28
55	68.55	175	63.96	295	14.11
60	74.04	180	56.24	300	14.75
65	80.14	185	48.87	305	16.41
70	86.66	190	41.95	310	19.05
75	93.43	195	35.57	315	22.48
80	100.24	200	29.86	320	26.42
85	106.88	205	24.97	325	30.60
90	113.12	210	21.10	330	34.78
95	118.75	215	18.43	335	38.75
100	123.54	220	17.06	340	42.33
105	127.29	225	16.81	345	45.40
110	129.84	230	17.31	350	47.87
115	131.07	235	18.12	355	49.74

Proposed WUST Nighttime Directional Pattern



Field #	Phase Ratio	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	0.422	107.3	0.00	0.0	63.83	0	0	0.0	0.0	0.0
2	0.647	165.9	106.21	10.2	63.83	0	0	0.0	0.0	0.0
3	1.000	0.0	98.81	45.0	63.83	0	0	0.0	0.0	0.0
4	0.202	118.9	195.90	27.0	63.83	0	0	0.0	0.0	0.0

FIGURE 1
PROPOSED NIGHTTIME ANTENNA SYSTEM
STANDARD PATTERN POLAR PLOT

prepared March 2017 for

New World Radio, Inc.
WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

FIGURE 2
PREDICTED NIGHTTIME CONTOURS

prepared March 2017 for

New World Radio, Inc.

WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

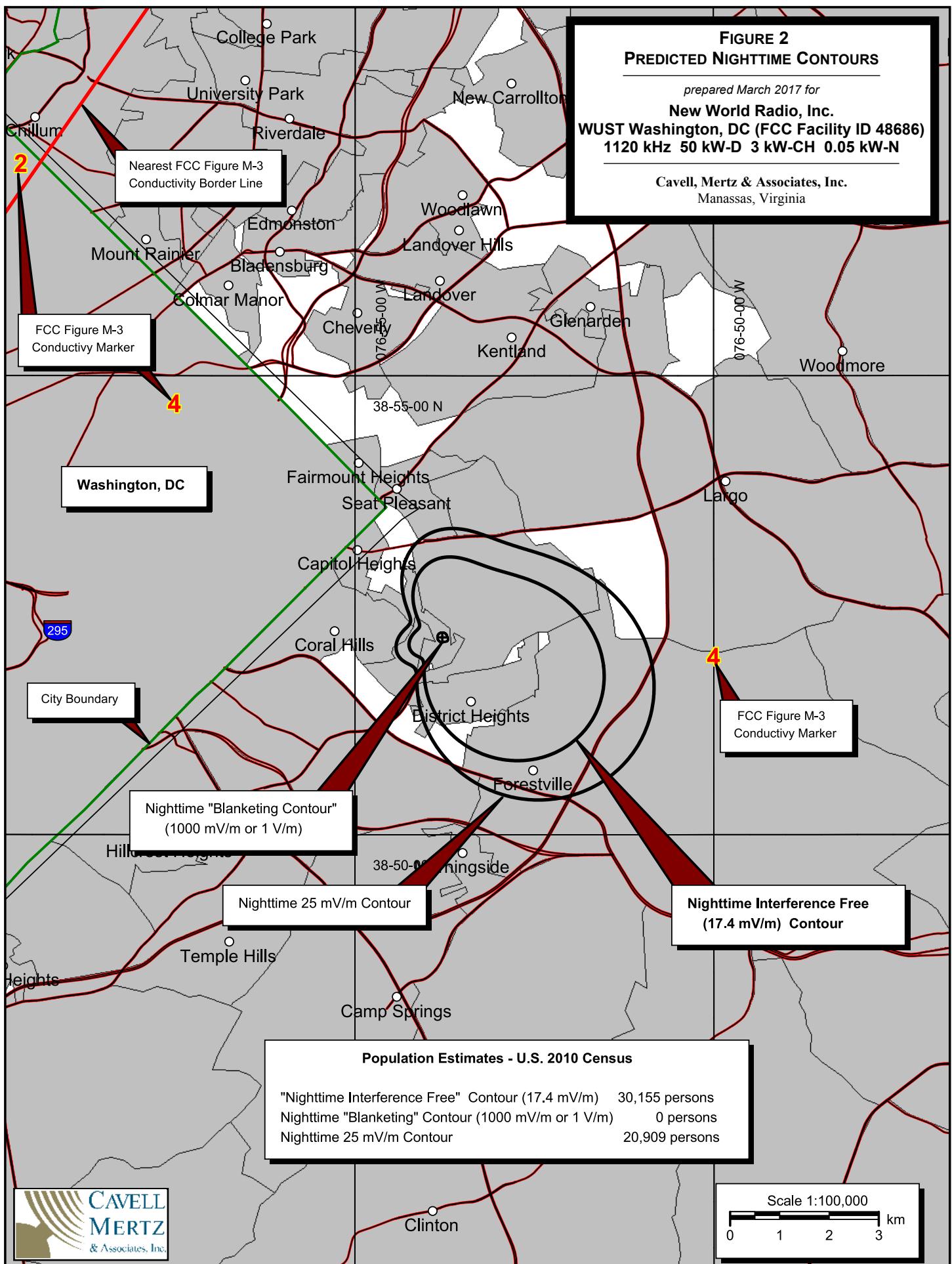


Exhibit 13 – Table II
NIGHTTIME INTERFERENCE FREE
CONTOUR CALCULATION

prepared March 2017 for
New World Radio, Inc.

WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Station	Distance <u>(km)</u>	Bearing <u>(deg)</u>	Vert. Angle <u>(deg)</u>	Radiation <u>(mV/m)</u>	Skywave Factor <u>(μV/m)</u>	Night Limit <u>(mV/m)</u>	RSS Limit <u>(mV/m)</u>
KMOX	1139.3	85.1	4.6 – 9.3	2779.50	31.27	17.383	17.383
-----50% Exclusion-----							
WBT	546.1	39.3	13.5 – 22.4	4016.08	103.75	8.334	19.278
YVMF-A	3178.2	351.5	0 – 0	978.60	7.48	1.464	19.333
WBBR	325.6	229.4	23.1 – 35.5	386.82	187.70	1.452	19.388
WKAJ	495.1	202.7	15.1 – 24.6	66.25	109.06	1.445	19.441

Exhibit 13 – Table III
NIGHT ALLOCATION PROTECTION REPORT
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Note: Positive "Margin" numbers indicate that the FCC required protection level has been met.

Call Letters	Ct St City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WPRX	US CT Bristol	45.95	16.47	26.60	123.76	3.974	160.55	57.71	102.84
WKAJ	US NY Saint Johnsville	21.24	15.09	24.64	109.06	3.468	159.01	49.00	110.01
WBNW	US MA Concord	47.46	11.92	20.05	81.33	4.689	288.29	60.18	228.11
New	CA QC Sherbrooke	27.72	11.23	11.23	83.83	5.360	319.66	51.30	268.37
New	CA ON Timmins	342.74	7.17	7.17	52.80	10.961	1038.00	43.06	994.94
New	US ME Caribou	36.04	4.58	9.20	24.75	5.548	1120.87	54.84	1066.03
New	CA NS Halifax	55.44	5.68	5.68	40.35	9.212	1141.71	68.61	1073.10
CMCW-D	CU Artemisa	197.41	1.70	1.70	5.26	1.334	1269.53	32.75	1236.78
WDFN	US MI Detroit	306.09	11.17	18.93	75.74	1.899	1253.59	15.75	1237.84

Notes:

- 1) Stations with Margins above 1500 mV/m omitted for brevity.
- 2) "Margin" indicates the difference between the permissible radiation toward the station and the actual radiation of the proposed station. If this number is negative, it indicates a violation of the rules.
- 3) No negative numbers shown above

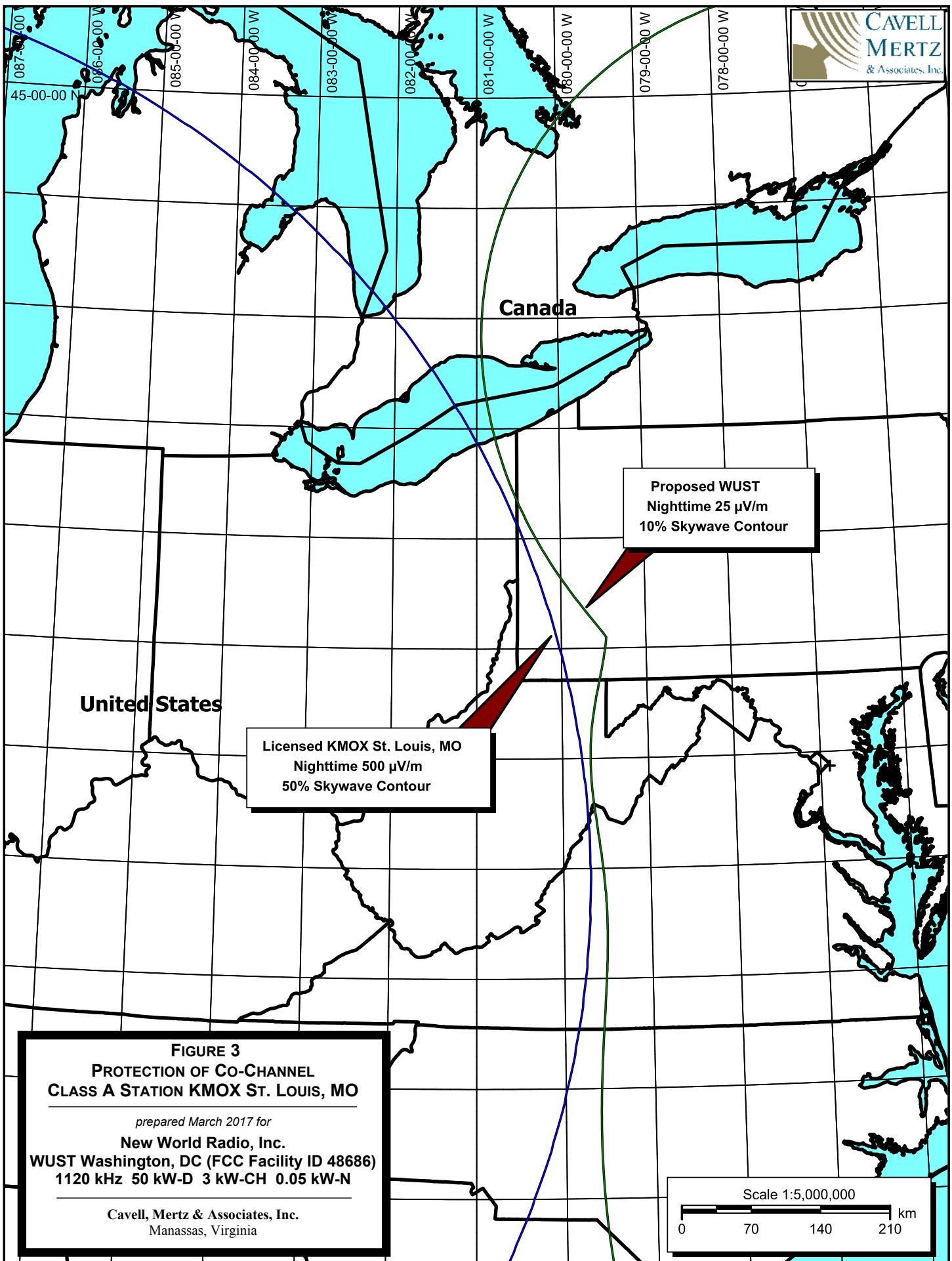


Exhibit 13 – Table IV
PROTECTION TO COCHANNEL CLASS A STATION
KMOX St. Louis, Missouri
prepared March 2017 for
New World Radio, Inc.
WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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Positive “Margin” numbers indicate that the required protection level at the contour has been met.
Results shown for 0.5° intervals from 56° to 130°. 5° shown in all other directions. *See last page for more notes.*

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KMOX (0)	US	MO	ST. LOUIS	309.85	3.20	7.22	19.61	0.500	127.51S	18.85	108.65
KMOX (5)	US	MO	ST. LOUIS	311.31	3.63	7.83	21.50	0.500	116.29S	19.75	96.54
KMOX (10)	US	MO	ST. LOUIS	312.7	4.10	8.50	23.74	0.500	105.30S	20.64	84.67
KMOX (15)	US	MO	ST. LOUIS	314.01	4.61	9.24	26.41	0.500	94.66S	21.51	73.15
KMOX (20)	US	MO	ST. LOUIS	315.25	5.18	10.07	29.59	0.500	84.49S	22.35	62.14
KMOX (25)	US	MO	ST. LOUIS	316.33	5.82	11.01	33.44	0.500	74.76S	23.09	51.67
KMOX (30)	US	MO	ST. LOUIS	317.31	6.54	12.07	38.10	0.500	65.61S	23.74	41.88
KMOX (35)	US	MO	ST. LOUIS	318.11	7.36	13.29	43.81	0.500	57.06S	24.21	32.86
KMOX (40)	US	MO	ST. LOUIS	318.67	8.31	14.70	50.87	0.500	49.14S	24.47	24.67
KMOX (45)	US	MO	ST. LOUIS	318.93	9.42	16.35	59.70	0.500	41.88S	24.43	17.45
KMOX (50)	US	MO	ST. LOUIS	318.68	10.74	18.30	70.81	0.501	35.38s	23.92	11.46
KMOX (55)	US	MO	ST. LOUIS	306.58	11.25	19.05	76.38	0.643	42.12s	15.98	26.14
KMOX (56)	US	MO	ST. LOUIS	305.89	11.31	19.14	77.00	0.650	42.20s	15.64	26.56
KMOX (56)	US	MO	ST. LOUIS	305.44	11.40	19.27	77.83	0.655	42.05s	15.42	26.63
KMOX (57)	US	MO	ST. LOUIS	305.08	11.50	19.43	78.77	0.656	41.62s	15.25	26.38
KMOX (57)	US	MO	ST. LOUIS	304.71	11.60	19.58	79.72	0.658	41.28s	15.08	26.21
KMOX (58)	US	MO	ST. LOUIS	304.45	11.72	19.76	80.81	0.658	40.74s	14.95	25.79
KMOX (58)	US	MO	ST. LOUIS	304.43	11.88	19.99	82.22	0.655	39.85s	14.90	24.94
KMOX (59)	US	MO	ST. LOUIS	304.4	12.05	20.23	83.68	0.652	38.95s	14.87	24.08
KMOX (59)	US	MO	ST. LOUIS	304.37	12.22	20.48	85.20	0.649	38.06s	14.82	23.24
KMOX (60)	US	MO	ST. LOUIS	304.35	12.39	20.73	86.77	0.645	37.17s	14.77	22.40
KMOX (60)	US	MO	ST. LOUIS	316.46	14.30	23.51	103.27	0.500	24.21S	21.26	2.95
KMOX (61)	US	MO	ST. LOUIS	316.31	14.53	23.84	105.43	0.500	23.71S	21.09	2.62
KMOX (61)	US	MO	ST. LOUIS	316.07	14.75	24.16	107.56	0.500	23.24S	20.83	2.41
KMOX (62)	US	MO	ST. LOUIS	315.81	14.98	24.48	109.75	0.500	22.78S	20.59	2.19
KMOX (62)	US	MO	ST. LOUIS	315.54	15.21	24.82	111.98	0.500	22.32S	20.35	1.98
KMOX (63)	US	MO	ST. LOUIS	315.26	15.45	25.16	114.28	0.500	21.88S	20.06	1.82
KMOX (63)	US	MO	ST. LOUIS	315.04	15.71	25.52	116.73	0.500	21.42S	19.85	1.57
KMOX (64)	US	MO	ST. LOUIS	314.73	15.96	25.87	119.14	0.500	20.98S	19.55	1.44
KMOX (64)	US	MO	ST. LOUIS	314.4	16.21	26.23	121.61	0.500	20.56S	19.27	1.29
KMOX (65)	US	MO	ST. LOUIS	314.05	16.47	26.60	124.13	0.500	20.14S	18.95	1.19
KMOX (65)	US	MO	ST. LOUIS	313.68	16.74	26.97	126.71	0.500	19.73S	18.65	1.08
KMOX (66)	US	MO	ST. LOUIS	313.3	17.01	27.35	129.35	0.500	19.33S	18.31	1.01
KMOX (66)	US	MO	ST. LOUIS	312.98	17.30	27.76	132.21	0.500	18.91S	18.02	0.89

Exhibit 13 – Table IV
PROTECTION TO COCHANNEL CLASS A STATION
KMOX St. Louis, Missouri
prepared March 2017 for
New World Radio, Inc.
WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
(Page 2 of 6)

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KMOX (67)	US	MO	ST. LOUIS	312.56	17.59	28.16	134.97	0.500	18.52S	17.67	0.85
KMOX (67)	US	MO	ST. LOUIS	312.11	17.88	28.56	137.80	0.500	18.14S	17.31	0.83
KMOX (68)	US	MO	ST. LOUIS	311.64	18.17	28.97	140.69	0.500	17.77S	16.94	0.83
KMOX (68)	US	MO	ST. LOUIS	311.15	18.47	29.38	143.63	0.500	17.41S	16.57	0.84
KMOX (69)	US	MO	ST. LOUIS	310.63	18.78	29.80	146.63	0.500	17.05S	16.19	0.86
KMOX (69)	US	MO	ST. LOUIS	310.18	19.11	30.26	149.90	0.500	16.68S	15.86	0.82
KMOX (70)	US	MO	ST. LOUIS	309.61	19.43	30.69	153.03	0.500	16.34S	15.47	0.87
KMOX (70)	US	MO	ST. LOUIS	309.02	19.76	31.13	156.20	0.500	16.00S	15.05	0.96
KMOX (71)	US	MO	ST. LOUIS	308.40	20.09	31.58	159.43	0.500	15.68S	14.66	1.02
KMOX (71)	US	MO	ST. LOUIS	307.74	20.43	32.02	162.71	0.500	15.36S	14.27	1.10
KMOX (72)	US	MO	ST. LOUIS	307.06	20.77	32.48	166.04	0.500	15.06S	13.85	1.21
KMOX (72)	US	MO	ST. LOUIS	306.34	21.11	32.94	169.41	0.500	14.76S	13.46	1.30
KMOX (73)	US	MO	ST. LOUIS	305.68	21.50	33.44	173.12	0.500	14.44S	13.09	1.35
KMOX (73)	US	MO	ST. LOUIS	304.90	21.85	33.91	176.57	0.500	14.16S	12.69	1.47
KMOX (74)	US	MO	ST. LOUIS	304.07	22.21	34.38	180.05	0.500	13.88S	12.32	1.57
KMOX (74)	US	MO	ST. LOUIS	303.21	22.58	34.85	183.56	0.500	13.62S	11.94	1.68
KMOX (75)	US	MO	ST. LOUIS	302.32	22.95	35.32	187.08	0.500	13.36S	11.60	1.76
KMOX (75)	US	MO	ST. LOUIS	301.46	23.36	35.85	190.99	0.500	13.09S	11.26	1.83
KMOX (76)	US	MO	ST. LOUIS	300.48	23.73	36.32	194.54	0.500	12.85S	10.96	1.90
KMOX (76)	US	MO	ST. LOUIS	299.46	24.10	36.79	198.07	0.500	12.62S	10.65	1.97
KMOX (77)	US	MO	ST. LOUIS	298.40	24.47	37.26	201.59	0.500	12.40S	10.38	2.02
KMOX (77)	US	MO	ST. LOUIS	297.28	24.84	37.72	205.07	0.500	12.19S	10.15	2.04
KMOX (78)	US	MO	ST. LOUIS	296.13	25.21	38.18	208.52	0.500	11.99S	9.94	2.05
KMOX (78)	US	MO	ST. LOUIS	295.00	25.63	38.69	212.40	0.500	11.77S	9.75	2.02
KMOX (79)	US	MO	ST. LOUIS	293.75	25.98	39.13	215.74	0.500	11.59S	9.59	1.99
KMOX (79)	US	MO	ST. LOUIS	292.45	26.34	39.56	219.00	0.500	11.42S	9.48	1.93
KMOX (80)	US	MO	ST. LOUIS	291.10	26.68	39.97	222.16	0.500	11.25S	9.38	1.88
KMOX (80)	US	MO	ST. LOUIS	289.71	27.01	40.37	225.21	0.500	11.10S	9.32	1.78
KMOX (81)	US	MO	ST. LOUIS	288.33	27.40	40.83	228.71	0.500	10.93S	9.35	1.58
KMOX (81)	US	MO	ST. LOUIS	286.84	27.70	41.2	231.51	0.500	10.80S	9.39	1.41
KMOX (82)	US	MO	ST. LOUIS	285.31	28.00	41.54	234.14	0.500	10.68S	9.41	1.27
KMOX (82)	US	MO	ST. LOUIS	283.73	28.27	41.86	236.61	0.500	10.57S	9.46	1.11
KMOX (83)	US	MO	ST. LOUIS	282.11	28.52	42.16	238.88	0.500	10.47S	9.49	0.98
KMOX (83)	US	MO	ST. LOUIS	280.46	28.75	42.43	240.95	0.500	10.38S	9.50	0.88
KMOX (84)	US	MO	ST. LOUIS	278.79	29.03	42.75	243.46	0.500	10.27S	9.56	0.71
KMOX (84)	US	MO	ST. LOUIS	277.06	29.21	42.96	245.08	0.500	10.20S	9.57	0.63

Exhibit 13 – Table IV
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KMOX St. Louis, Missouri
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WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KMOX (85)	US	MO	ST. LOUIS	275.31	29.36	43.13	246.46	0.500	10.14S	9.57	0.58
KMOX (85)	US	MO	ST. LOUIS	273.53	29.48	43.27	247.59	0.500	10.10S	9.59	0.51
KMOX (86)	US	MO	ST. LOUIS	271.73	29.57	43.38	248.45	0.500	10.06S	9.59	0.48
KMOX (86)	US	MO	ST. LOUIS	269.91	29.63	43.45	249.05	0.500	10.04S	9.56	0.48
KMOX (87)	US	MO	ST. LOUIS	268.07	29.74	43.57	250.05	0.500	10.00S	9.60	0.40
KMOX (87)	US	MO	ST. LOUIS	266.24	29.74	43.57	250.08	0.500	10.00S	9.59	0.41
KMOX (88)	US	MO	ST. LOUIS	264.40	29.70	43.52	249.84	0.500	10.01S	9.56	0.45
KMOX (88)	US	MO	ST. LOUIS	262.58	29.63	43.44	249.32	0.500	10.03S	9.54	0.49
KMOX (89)	US	MO	ST. LOUIS	260.76	29.52	43.32	248.52	0.500	10.06S	9.56	0.50
KMOX (89)	US	MO	ST. LOUIS	258.97	29.39	43.16	247.45	0.500	10.10S	9.59	0.51
KMOX (90)	US	MO	ST. LOUIS	257.13	29.30	43.06	246.76	0.500	10.13S	9.62	0.52
KMOX (90)	US	MO	ST. LOUIS	255.38	29.10	42.83	245.16	0.500	10.20S	9.68	0.52
KMOX (91)	US	MO	ST. LOUIS	253.65	28.88	42.57	243.33	0.500	10.27S	9.73	0.54
KMOX (91)	US	MO	ST. LOUIS	251.97	28.63	42.28	241.26	0.500	10.36S	9.83	0.54
KMOX (92)	US	MO	ST. LOUIS	250.32	28.35	41.97	238.98	0.500	10.46S	9.88	0.58
KMOX (92)	US	MO	ST. LOUIS	248.62	28.12	41.69	237.05	0.500	10.55S	9.97	0.57
KMOX (93)	US	MO	ST. LOUIS	247.05	27.81	41.32	234.37	0.500	10.67S	10.07	0.60
KMOX (93)	US	MO	ST. LOUIS	245.52	27.47	40.92	231.51	0.500	10.80S	10.16	0.63
KMOX (94)	US	MO	ST. LOUIS	244.05	27.12	40.51	228.51	0.500	10.94S	10.3	0.64
KMOX (94)	US	MO	ST. LOUIS	242.62	26.76	40.07	225.37	0.500	11.09S	10.41	0.69
KMOX (95)	US	MO	ST. LOUIS	241.24	26.39	39.62	222.10	0.500	11.26S	10.55	0.71
KMOX (95)	US	MO	ST. LOUIS	239.80	26.05	39.21	219.17	0.500	11.41S	10.66	0.75
KMOX (96)	US	MO	ST. LOUIS	238.51	25.66	38.73	215.70	0.500	11.59S	10.82	0.77
KMOX (96)	US	MO	ST. LOUIS	237.28	25.26	38.24	212.16	0.500	11.78S	10.97	0.81
KMOX (97)	US	MO	ST. LOUIS	236.10	24.86	37.74	208.56	0.500	11.99S	11.14	0.85
KMOX (97)	US	MO	ST. LOUIS	234.96	24.45	37.23	204.91	0.500	12.20S	11.31	0.89
KMOX (98)	US	MO	ST. LOUIS	233.87	24.04	36.72	201.24	0.500	12.42S	11.51	0.91
KMOX (98)	US	MO	ST. LOUIS	232.72	23.67	36.25	197.86	0.500	12.64S	11.67	0.97
KMOX (99)	US	MO	ST. LOUIS	231.72	23.26	35.73	194.14	0.500	12.88S	11.86	1.02
KMOX (99)	US	MO	ST. LOUIS	230.77	22.86	35.21	190.42	0.500	13.13S	12.05	1.08
KMOX (100)	US	MO	ST. LOUIS	229.86	22.45	34.69	186.72	0.500	13.39S	12.24	1.15
KMOX (100)	US	MO	ST. LOUIS	228.99	22.05	34.17	183.03	0.500	13.66S	12.44	1.22
KMOX (101)	US	MO	ST. LOUIS	228.05	21.68	33.69	179.61	0.500	13.92S	12.66	1.26
KMOX (101)	US	MO	ST. LOUIS	227.26	21.29	33.17	175.97	0.500	14.21S	12.87	1.34
KMOX (102)	US	MO	ST. LOUIS	226.51	20.90	32.66	172.38	0.500	14.50S	13.07	1.43
KMOX (102)	US	MO	ST. LOUIS	225.79	20.52	32.16	168.83	0.500	14.81S	13.28	1.52

Exhibit 13 – Table IV
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KMOX St. Louis, Missouri
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New World Radio, Inc.
WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KMOX (103)	US	MO	ST. LOUIS	225.11	20.15	31.66	165.34	0.500	15.12S	13.49	1.63
KMOX (103)	US	MO	ST. LOUIS	224.46	19.78	31.16	161.90	0.500	15.44S	13.68	1.76
KMOX (104)	US	MO	ST. LOUIS	223.74	19.44	30.69	158.66	0.500	15.76S	13.91	1.84
KMOX (104)	US	MO	ST. LOUIS	223.15	19.08	30.21	155.33	0.500	16.10S	14.11	1.99
KMOX (105)	US	MO	ST. LOUIS	222.60	18.73	29.73	152.06	0.500	16.44S	14.31	2.13
KMOX (105)	US	MO	ST. LOUIS	222.07	18.39	29.27	148.85	0.500	16.80S	14.50	2.30
KMOX (106)	US	MO	ST. LOUIS	221.57	18.05	28.80	145.71	0.500	17.16S	14.69	2.47
KMOX (106)	US	MO	ST. LOUIS	221.10	17.72	28.35	142.64	0.500	17.53S	14.88	2.64
KMOX (107)	US	MO	ST. LOUIS	220.55	17.41	27.92	139.72	0.500	17.89S	15.09	2.80
KMOX (107)	US	MO	ST. LOUIS	220.13	17.10	27.48	136.78	0.500	18.28S	15.27	3.01
KMOX (108)	US	MO	ST. LOUIS	219.73	16.79	27.05	133.90	0.500	18.67S	15.44	3.23
KMOX (108)	US	MO	ST. LOUIS	219.35	16.49	26.62	131.09	0.500	19.07S	15.61	3.46
KMOX (109)	US	MO	ST. LOUIS	218.99	16.19	26.21	128.35	0.500	19.48S	15.77	3.70
KMOX (109)	US	MO	ST. LOUIS	218.65	15.90	25.80	125.67	0.500	19.89S	15.93	3.96
KMOX (110)	US	MO	ST. LOUIS	218.24	15.63	25.41	123.11	0.500	20.31S	16.12	4.18
KMOX (110)	US	MO	ST. LOUIS	217.94	15.35	25.02	120.56	0.500	20.74S	16.26	4.48
KMOX (111)	US	MO	ST. LOUIS	217.66	15.08	24.63	118.08	0.500	21.17S	16.40	4.77
KMOX (111)	US	MO	ST. LOUIS	217.39	14.82	24.25	115.65	0.500	21.62S	16.54	5.07
KMOX (112)	US	MO	ST. LOUIS	217.15	14.56	23.88	113.29	0.500	22.07S	16.66	5.40
KMOX (112)	US	MO	ST. LOUIS	216.91	14.31	23.52	110.99	0.500	22.52S	16.79	5.73
KMOX (113)	US	MO	ST. LOUIS	216.70	14.06	23.17	108.75	0.500	22.99S	16.90	6.08
KMOX (113)	US	MO	ST. LOUIS	216.41	13.82	22.82	106.60	0.500	23.45S	17.06	6.40
KMOX (114)	US	MO	ST. LOUIS	216.22	13.59	22.48	104.47	0.500	23.93S	17.16	6.77
KMOX (114)	US	MO	ST. LOUIS	216.04	13.36	22.14	102.40	0.500	24.42S	17.26	7.16
KMOX (115)	US	MO	ST. LOUIS	215.88	13.13	21.82	100.38	0.500	24.91S	17.36	7.55
KMOX (115)	US	MO	ST. LOUIS	215.73	12.91	21.50	98.41	0.500	25.40S	17.44	7.96
KMOX (116)	US	MO	ST. LOUIS	215.59	12.70	21.18	96.50	0.500	25.91S	17.52	8.38
KMOX (116)	US	MO	ST. LOUIS	215.38	12.49	20.87	94.65	0.500	26.41S	17.64	8.78
KMOX (117)	US	MO	ST. LOUIS	215.27	12.28	20.57	92.83	0.500	26.93S	17.71	9.23
KMOX (117)	US	MO	ST. LOUIS	215.16	12.08	20.27	91.06	0.500	27.45S	17.77	9.68
KMOX (118)	US	MO	ST. LOUIS	215.06	11.88	19.98	89.34	0.500	27.98S	17.83	10.15
KMOX (118)	US	MO	ST. LOUIS	214.98	11.69	19.7	87.66	0.500	28.52S	17.89	10.63
KMOX (119)	US	MO	ST. LOUIS	214.90	11.50	19.42	86.03	0.500	29.06S	17.94	11.12
KMOX (119)	US	MO	ST. LOUIS	214.83	11.31	19.15	84.44	0.500	29.61S	17.99	11.62
KMOX (120)	US	MO	ST. LOUIS	214.70	11.13	18.88	82.89	0.500	30.16S	18.07	12.09
KMOX (120)	US	MO	ST. LOUIS	214.65	10.95	18.61	81.38	0.500	30.72S	18.10	12.62

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1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KMOX (121)	US	MO	ST. LOUIS	214.61	10.78	18.36	79.91	0.500	31.29S	18.13	13.15
KMOX (121)	US	MO	ST. LOUIS	214.58	10.61	18.10	78.47	0.500	31.86S	18.17	13.69
KMOX (122)	US	MO	ST. LOUIS	214.55	10.44	17.86	77.08	0.500	32.43S	18.19	14.24
KMOX (122)	US	MO	ST. LOUIS	214.53	10.27	17.61	75.72	0.500	33.02S	18.21	14.81
KMOX (123)	US	MO	ST. LOUIS	214.45	10.11	17.37	74.38	0.500	33.61S	18.26	15.35
KMOX (123)	US	MO	ST. LOUIS	214.45	9.95	17.14	73.09	0.500	34.21S	18.27	15.93
KMOX (124)	US	MO	ST. LOUIS	214.45	9.80	16.91	71.83	0.500	34.81S	18.29	16.52
KMOX (124)	US	MO	ST. LOUIS	214.45	9.65	16.68	70.60	0.500	35.41S	18.30	17.11
KMOX (125)	US	MO	ST. LOUIS	214.47	9.50	16.46	69.40	0.500	36.02S	18.30	17.73
KMOX (125)	US	MO	ST. LOUIS	214.49	9.35	16.25	68.24	0.500	36.64S	18.29	18.34
KMOX (126)	US	MO	ST. LOUIS	214.51	9.21	16.03	67.10	0.500	37.26S	18.29	18.96
KMOX (126)	US	MO	ST. LOUIS	214.54	9.07	15.82	65.99	0.500	37.89S	18.29	19.60
KMOX (127)	US	MO	ST. LOUIS	214.52	8.93	15.62	64.89	0.500	38.53S	18.31	20.22
KMOX (127)	US	MO	ST. LOUIS	214.56	8.79	15.41	63.83	0.500	39.17S	18.30	20.87
KMOX (128)	US	MO	ST. LOUIS	214.61	8.66	15.22	62.80	0.500	39.81S	18.28	21.53
KMOX (128)	US	MO	ST. LOUIS	214.66	8.53	15.02	61.79	0.500	40.46S	18.27	22.18
KMOX (129)	US	MO	ST. LOUIS	214.72	8.40	14.83	60.81	0.500	41.11S	18.25	22.86
KMOX (129)	US	MO	ST. LOUIS	214.78	8.27	14.64	59.85	0.500	41.77S	18.23	23.54
KMOX (130)	US	MO	ST. LOUIS	214.86	8.03	14.27	57.99	0.500	43.11S	18.22	24.90
KMOX (135)	US	MO	ST. LOUIS	215.72	6.91	12.62	49.92	0.500	50.08S	17.93	32.16
KMOX (140)	US	MO	ST. LOUIS	216.91	5.95	11.21	43.47	0.500	57.51S	17.56	39.95
KMOX (145)	US	MO	ST. LOUIS	218.34	5.13	10.00	38.26	0.500	65.33S	17.20	48.13
KMOX (150)	US	MO	ST. LOUIS	219.98	4.40	8.94	34.00	0.500	73.52S	16.91	56.61
KMOX (155)	US	MO	ST. LOUIS	221.77	3.76	8.02	30.48	0.500	82.02S	16.72	65.30
KMOX (160)	US	MO	ST. LOUIS	225.57	3.39	7.48	28.40	0.532	93.74s	16.69	77.05
KMOX (165)	US	MO	ST. LOUIS	227.98	2.94	6.84	26.12	0.543	103.96s	16.92	87.04
KMOX (170)	US	MO	ST. LOUIS	230.60	2.56	6.31	24.28	0.557	114.76s	17.28	97.48
KMOX (175)	US	MO	ST. LOUIS	230.07	1.82	5.27	21.18	0.500	118.04S	17.25	100.79
KMOX (180)	US	MO	ST. LOUIS	232.33	1.45	4.76	19.64	0.500	127.29S	17.61	109.68
KMOX (185)	US	MO	ST. LOUIS	234.64	1.11	4.30	18.31	0.500	136.55S	18.01	118.55
KMOX (190)	US	MO	ST. LOUIS	237.38	0.88	3.99	17.36	0.511	147.23s	18.47	128.77
KMOX (195)	US	MO	ST. LOUIS	239.51	0.56	3.56	16.21	0.504	155.44s	18.80	136.65
KMOX (200)	US	MO	ST. LOUIS	241.78	0.29	3.20	15.25	0.500	163.96S	19.11	144.85
KMOX (205)	US	MO	ST. LOUIS	244.22	0.08	2.92	14.47	0.500	172.72S	19.38	153.34
KMOX (210)	US	MO	ST. LOUIS	246.66	0.00	2.67	13.78	0.500	181.38S	19.58	161.80
KMOX (215)	US	MO	ST. LOUIS	249.13	0.00	2.45	13.18	0.500	189.66S	19.70	169.96

Exhibit 13 – Table IV
PROTECTION TO COCHANNEL CLASS A STATION
KMOX St. Louis, Missouri
prepared March 2017 for
New World Radio, Inc.
WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
(Page 6 of 6)

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KMOX (220)	US	MO	ST. LOUIS	251.59	0.00	2.27	12.65	0.500	197.64S	19.73	177.91
KMOX (225)	US	MO	ST. LOUIS	254.05	0.00	2.11	12.17	0.500	205.40S	19.69	185.71
KMOX (230)	US	MO	ST. LOUIS	256.50	0.00	1.98	11.76	0.500	212.64S	19.57	193.07
KMOX (235)	US	MO	ST. LOUIS	258.96	0.00	1.88	11.39	0.500	219.43S	19.38	200.06
KMOX (240)	US	MO	ST. LOUIS	261.40	0.00	1.82	11.08	0.500	225.58S	19.12	206.46
KMOX (245)	US	MO	ST. LOUIS	263.82	0.00	1.77	10.81	0.500	231.33S	18.81	212.52
KMOX (250)	US	MO	ST. LOUIS	266.22	0.00	1.75	10.57	0.500	236.47S	18.45	218.02
KMOX (255)	US	MO	ST. LOUIS	268.60	0.00	1.76	10.38	0.500	240.76S	18.05	222.71
KMOX (260)	US	MO	ST. LOUIS	270.95	0.00	1.79	10.22	0.500	244.50S	17.63	226.87
KMOX (265)	US	MO	ST. LOUIS	273.28	0.00	1.84	10.11	0.500	247.26S	17.19	230.06
KMOX (270)	US	MO	ST. LOUIS	275.57	0.00	1.92	10.03	0.500	249.14S	16.75	232.40
KMOX (275)	US	MO	ST. LOUIS	277.83	0.00	2.01	9.99	0.500	250.30S	16.30	234.00
KMOX (280)	US	MO	ST. LOUIS	280.05	0.00	2.13	9.99	0.500	250.28S	15.86	234.42
KMOX (285)	US	MO	ST. LOUIS	282.23	0.00	2.27	10.03	0.500	249.23S	15.44	233.80
KMOX (290)	US	MO	ST. LOUIS	284.37	0.00	2.43	10.12	0.500	247.12S	15.05	232.07
KMOX (295)	US	MO	ST. LOUIS	286.47	0.00	2.61	10.25	0.500	243.93S	14.71	229.22
KMOX (300)	US	MO	ST. LOUIS	288.54	0.00	2.81	10.42	0.500	239.86S	14.43	225.43
KMOX (305)	US	MO	ST. LOUIS	290.55	0.17	3.04	10.66	0.500	234.50S	14.22	220.28
KMOX (310)	US	MO	ST. LOUIS	292.53	0.35	3.29	10.96	0.500	228.10S	14.10	214.00
KMOX (315)	US	MO	ST. LOUIS	294.47	0.55	3.55	11.32	0.500	220.92S	14.08	206.84
KMOX (320)	US	MO	ST. LOUIS	296.35	0.77	3.84	11.76	0.500	212.61S	14.18	198.43
KMOX (325)	US	MO	ST. LOUIS	298.20	1.00	4.16	12.28	0.500	203.66S	14.39	189.27
KMOX (330)	US	MO	ST. LOUIS	300.01	1.25	4.49	12.89	0.500	193.98S	14.73	179.25
KMOX (335)	US	MO	ST. LOUIS	301.76	1.52	4.87	13.62	0.500	183.51S	15.19	168.32
KMOX (340)	US	MO	ST. LOUIS	303.47	1.81	5.26	14.47	0.500	172.73S	15.76	156.97
KMOX (345)	US	MO	ST. LOUIS	305.16	2.12	5.69	15.46	0.500	161.72S	16.43	145.29
KMOX (350)	US	MO	ST. LOUIS	306.77	2.45	6.16	16.63	0.500	150.34S	17.17	133.16
KMOX (355)	US	MO	ST. LOUIS	308.35	2.81	6.66	17.99	0.500	138.97S	18.00	120.97

Notes:

- 1) Results shown for 0.5° intervals from 56° to 130° from KMOX; 5° shown in all other directions.
- 2) S = Skywave Signal = no clipping used
- 3) s = Skywave Signal used, *point was clipped at U.S. Border (signal at border used)*.
- 4) "Margin" indicates the difference between the permissible radiation toward the station and the actual radiation of the proposed station. If this number is negative, it indicates a violation of the rules.
- 5) No negative numbers shown above



FIGURE 4
PROTECTION OF 1ST ADJACENT CHANNEL
CLASS A STATIONS

prepared March 2017 for

New World Radio, Inc.

WUST Washington, DC (FCC Facility ID 48686)
1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N

Cavell, Mertz & Associates, Inc.
Manassas, Virginia

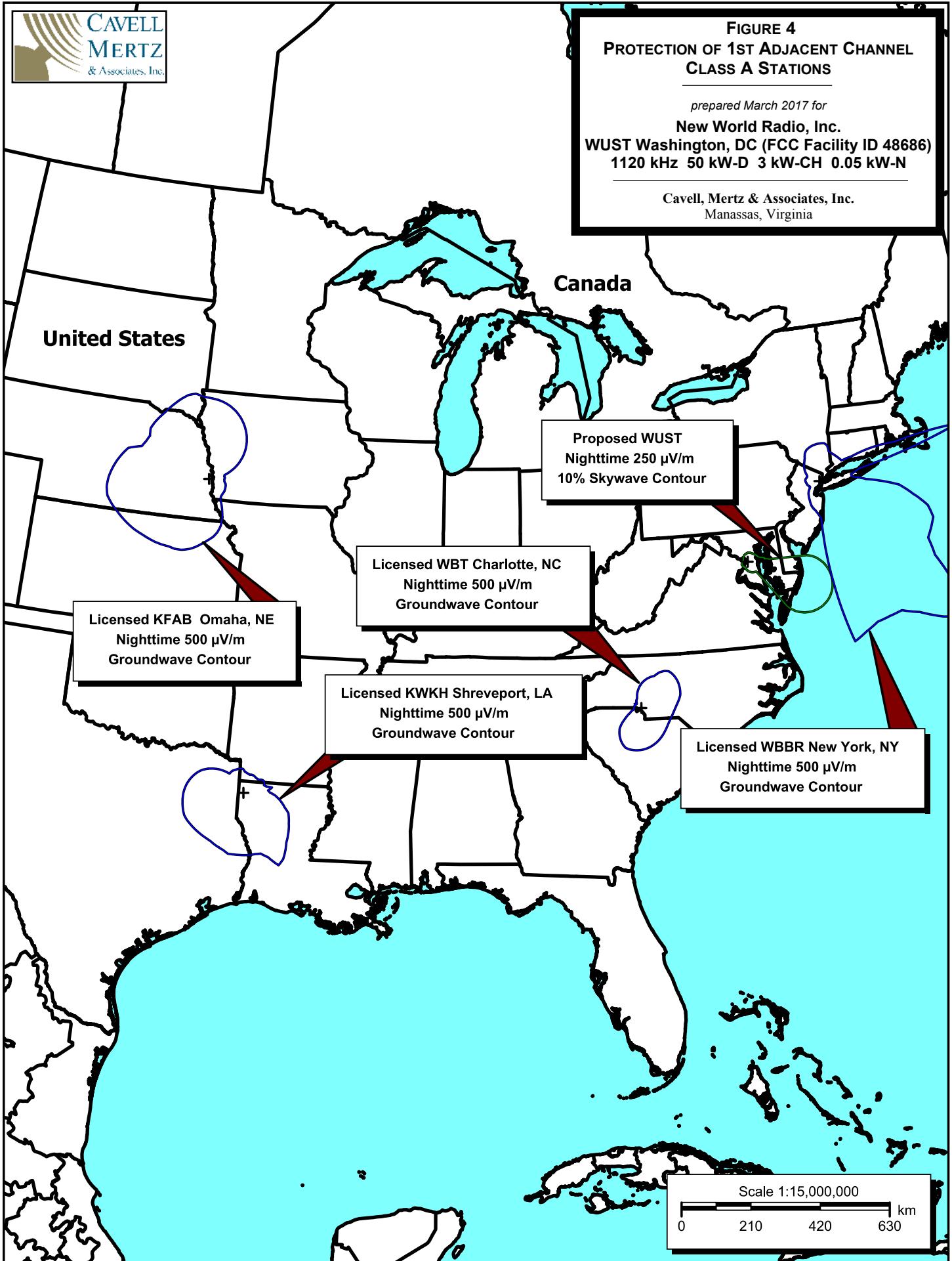


Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
 (Page 1 of 8)

WBBR 1130 kHz New York, NY

Call	Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin			
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)
WBBR (0)	US	NY	NEW YORK	35.62	18.58	29.52	143.46	0.500	174.26G	51.10	123.16
WBBR (5)	US	NY	NEW YORK	36.57	18.25	29.07	140.31	0.500	178.17G	51.66	126.51
WBBR (10)	US	NY	NEW YORK	37.62	17.96	28.68	137.60	0.500	181.69G	52.22	129.47
WBBR (15)	US	NY	NEW YORK	38.75	17.71	28.34	135.28	0.500	184.80G	52.88	131.92
WBBR (20)	US	NY	NEW YORK	40.23	17.74	28.38	135.65	0.500	184.30G	53.67	130.63
WBBR (25)	US	NY	NEW YORK	42.15	18.27	29.11	140.92	0.500	177.40G	54.56	122.84
WBBR (30)	US	NY	NEW YORK	43.30	18.24	29.07	140.70	0.500	177.68G	55.31	122.37
WBBR (35)	US	NY	NEW YORK	44.41	18.21	29.02	140.42	0.500	178.04G	56.04	122.00
WBBR (40)	US	NY	NEW YORK	45.50	18.17	28.97	140.14	0.500	178.40G	56.80	121.60
WBBR (45)	US	NY	NEW YORK	46.59	18.14	28.93	139.92	0.500	178.67G	57.62	121.05
WBBR (50)	US	NY	NEW YORK	47.68	18.12	28.90	139.83	0.500	178.79G	58.44	120.35
WBBR (55)	US	NY	NEW YORK	48.78	18.12	28.90	139.86	0.500	178.75G	59.30	119.45
WBBR (60)	US	NY	NEW YORK	50.42	16.90	27.20	128.17	0.500	195.06G	61.10	133.96
WBBR (65)	US	NY	NEW YORK	53.27	14.60	23.94	106.48	0.500	234.79G	64.42	170.37
WBBR (70)	US	NY	NEW YORK	56.57	12.87	21.43	90.69	0.500	275.65G	68.21	207.44
WBBR (75)	US	NY	NEW YORK	61.09	10.55	18.03	70.69	0.795	562.63g	73.84	488.79
WBBR (80)	US	NY	NEW YORK	55.90	17.23	27.66	131.79	0.500	189.70G	66.04	123.66
WBBR (85)	US	NY	NEW YORK	55.56	18.46	29.37	143.70	0.500	173.98G	65.18	108.79
WBBR (90)	US	NY	NEW YORK	56.69	18.61	29.58	145.23	0.500	172.14G	66.26	105.88
WBBR (95)	US	NY	NEW YORK	59.12	18.17	28.97	141.16	0.570	201.72g	68.92	132.80
WBBR (100)	US	NY	NEW YORK	58.26	19.27	30.48	151.71	1.094	360.62g	67.53	293.08
WBBR (105)	US	NY	NEW YORK	57.77	20.03	31.50	158.98	1.491	469.05g	66.72	402.34
WBBR (110)	US	NY	NEW YORK	57.37	20.64	32.31	164.81	2.104	638.33g	66.03	572.30
WBBR (115)	US	NY	NEW YORK	57.04	21.15	32.99	169.66	2.526	744.37g	65.41	678.96
WBBR (120)	US	NY	NEW YORK	56.74	21.59	33.56	173.80	2.675	769.45g	64.93	704.52
WBBR (125)	US	NY	NEW YORK	56.48	21.97	34.06	177.43	2.825	796.21g	64.48	731.73
WBBR (130)	US	NY	NEW YORK	56.24	22.31	34.51	180.68	3.716	1028.31g	64.10	964.20
WBBR (135)	US	NY	NEW YORK	56.03	22.63	34.91	183.65	7.201	1960.40g	63.75	1896.65
WBBR (140)	US	NY	NEW YORK	55.82	22.92	35.29	186.42	13.35	3580.69g	63.40	3517.29
WBBR (145)	US	NY	NEW YORK	55.62	23.20	35.65	189.03	9.916	2622.96g	63.06	2559.90
WBBR (150)	US	NY	NEW YORK	55.43	23.47	35.99	191.54	6.940	1811.59g	62.73	1748.86
WBBR (155)	US	NY	NEW YORK	55.24	23.73	36.32	194.00	5.625	1449.88g	62.45	1387.43
WBBR (160)	US	NY	NEW YORK	56.44	24.11	36.81	197.64	5.399	1365.79g	63.36	1302.43
WBBR (165)	US	NY	NEW YORK	60.32	24.86	37.75	204.83	4.780	1166.71g	66.65	1100.06
WBBR (170)	US	NY	NEW YORK	62.98	25.71	38.79	212.74	4.874	1145.41g	68.82	1076.59
WBBR (175)	US	NY	NEW YORK	67.54	27.01	40.37	224.77	4.760	1058.76g	72.57	986.18

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
 (Page 2 of 8)

WBBR 1130 kHz New York, NY

Call	Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin			
<u>Letters</u>	<u>Ct</u>	<u>St</u>	<u>City</u>	<u>(deg)</u>	<u>(deg)</u>	<u>(deg)</u>	<u>(100uV/m)</u>	<u>(mV/m)</u>	<u>(mV/m)</u>	<u>(mV/m)</u>	
WBBR (180)	US	NY	NEW YORK	71.63	28.58	42.23	238.81	1.235	258.57g	75.45	183.11
WBBR (185)	US	NY	NEW YORK	65.11	28.55	42.19	238.19	0.500	104.96G	68.96	36.00
WBBR (190)	US	NY	NEW YORK	61.65	28.64	42.30	238.82	0.500	104.68G	65.53	39.15
WBBR (195)	US	NY	NEW YORK	58.93	28.67	42.34	238.99	0.500	104.61G	62.92	41.69
WBBR (200)	US	NY	NEW YORK	56.95	28.82	42.51	240.17	0.500	104.09G	61.07	43.03
WBBR (205)	US	NY	NEW YORK	54.89	28.75	42.43	239.47	0.500	104.40G	59.27	45.13
WBBR (210)	US	NY	NEW YORK	52.83	28.42	42.04	236.49	0.500	105.71G	57.78	47.93
WBBR (215)	US	NY	NEW YORK	51.06	27.99	41.53	232.58	0.500	107.49G	56.57	50.92
WBBR (220)	US	NY	NEW YORK	49.65	27.63	41.12	229.41	0.500	108.98G	55.68	53.29
WBBR (225)	US	NY	NEW YORK	48.46	27.23	40.64	225.76	0.500	110.74G	54.99	55.75
WBBR (230)	US	NY	NEW YORK	47.49	26.85	40.17	222.25	0.500	112.49G	54.48	58.01
WBBR (235)	US	NY	NEW YORK	46.73	26.37	39.60	217.9	0.500	114.73G	54.13	60.60
WBBR (240)	US	NY	NEW YORK	46.22	25.82	38.93	212.89	0.500	117.43G	54.07	63.36
WBBR (245)	US	NY	NEW YORK	45.84	25.44	38.46	209.35	0.500	119.41G	53.99	65.42
WBBR (250)	US	NY	NEW YORK	45.29	25.38	38.38	208.76	0.500	119.75G	53.61	66.14
WBBR (255)	US	NY	NEW YORK	44.56	25.44	38.46	209.32	0.500	119.43G	53.12	66.31
WBBR (260)	US	NY	NEW YORK	43.82	25.44	38.46	209.29	0.500	119.45G	52.63	66.82
WBBR (265)	US	NY	NEW YORK	43.21	25.33	38.33	208.25	0.500	120.05G	52.28	67.76
WBBR (270)	US	NY	NEW YORK	42.56	25.22	38.19	207.18	0.500	120.67G	51.92	68.74
WBBR (275)	US	NY	NEW YORK	41.86	25.10	38.04	206.04	0.500	121.34G	51.54	69.79
WBBR (280)	US	NY	NEW YORK	41.28	24.92	37.81	204.31	0.500	122.36G	51.30	71.07
WBBR (285)	US	NY	NEW YORK	40.96	24.66	37.50	201.96	0.500	123.78G	51.20	72.59
WBBR (290)	US	NY	NEW YORK	40.95	24.37	37.13	199.19	0.500	125.51G	51.33	74.17
WBBR (295)	US	NY	NEW YORK	41.05	24.08	36.77	196.54	0.500	127.20G	51.52	75.68
WBBR (300)	US	NY	NEW YORK	40.80	23.86	36.48	194.39	0.500	128.60G	51.47	77.14
WBBR (305)	US	NY	NEW YORK	39.91	23.65	36.23	192.46	0.500	129.90G	51.06	78.84
WBBR (310)	US	NY	NEW YORK	38.79	23.40	35.9	189.99	0.500	131.59G	50.59	80.99
WBBR (315)	US	NY	NEW YORK	37.75	23.07	35.48	186.81	0.500	133.82G	50.20	83.63
WBBR (320)	US	NY	NEW YORK	36.87	22.68	34.98	183.04	0.500	136.58G	49.94	86.64
WBBR (325)	US	NY	NEW YORK	36.11	22.23	34.40	178.77	0.500	139.85G	49.82	90.03
WBBR (330)	US	NY	NEW YORK	35.50	21.74	33.77	174.08	0.500	143.61G	49.77	93.85
WBBR (335)	US	NY	NEW YORK	34.83	21.18	33.03	168.65	0.500	148.24G	49.70	98.54
WBBR (340)	US	NY	NEW YORK	33.79	20.45	32.06	161.54	0.500	154.76G	49.59	105.17
WBBR (345)	US	NY	NEW YORK	33.66	19.85	31.25	155.71	0.500	160.56G	49.83	110.72
WBBR (350)	US	NY	NEW YORK	34.13	19.38	30.62	151.17	0.500	165.38G	50.18	115.20
WBBR (355)	US	NY	NEW YORK	34.80	18.95	30.04	147.07	0.500	169.98G	50.60	119.38

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
 (Page 3 of 8)

WBT 1110 kHz Charlotte, NC

Call	Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin			
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	
WBT (0)	US	NC	CHARLOTTE	226.72	15.09	24.65	117.81	0.500	212.21G	14.53	197.68
WBT (5)	US	NC	CHARLOTTE	226.83	15.45	25.15	121.10	0.500	206.45G	14.45	192.00
WBT (10)	US	NC	CHARLOTTE	226.72	15.82	25.68	124.54	0.500	200.74G	14.35	186.39
WBT (15)	US	NC	CHARLOTTE	226.39	16.19	26.20	128.03	0.500	195.27G	14.26	181.01
WBT (20)	US	NC	CHARLOTTE	225.82	16.55	26.71	131.43	0.500	190.22G	14.20	176.01
WBT (25)	US	NC	CHARLOTTE	225.04	16.89	27.19	134.65	0.500	185.67G	14.22	171.45
WBT (30)	US	NC	CHARLOTTE	224.35	17.65	28.25	141.81	0.500	176.29G	14.14	162.15
WBT (35)	US	NC	CHARLOTTE	223.10	18.20	29.01	147.07	0.500	169.98G	14.28	155.70
WBT (40)	US	NC	CHARLOTTE	221.50	18.53	29.47	150.24	0.500	166.40G	14.64	151.75
WBT (45)	US	NC	CHARLOTTE	219.80	18.51	29.44	150.11	0.500	166.54G	15.20	151.34
WBT (50)	US	NC	CHARLOTTE	218.15	18.38	29.25	148.89	0.500	167.91G	15.87	152.04
WBT (55)	US	NC	CHARLOTTE	216.63	18.14	28.93	146.72	0.500	170.39G	16.70	153.69
WBT (60)	US	NC	CHARLOTTE	215.29	17.83	28.50	143.82	0.500	173.83G	17.48	156.35
WBT (65)	US	NC	CHARLOTTE	214.16	17.46	27.99	140.40	0.500	178.07G	18.15	159.91
WBT (70)	US	NC	CHARLOTTE	213.25	17.06	27.43	136.68	0.500	182.91G	18.71	164.20
WBT (75)	US	NC	CHARLOTTE	212.55	16.65	26.86	132.86	0.500	188.17G	19.14	169.02
WBT (80)	US	NC	CHARLOTTE	212.27	16.19	26.20	128.51	0.500	194.54G	19.28	175.26
WBT (85)	US	NC	CHARLOTTE	212.16	15.76	25.59	124.53	0.500	200.76G	19.32	181.44
WBT (90)	US	NC	CHARLOTTE	212.08	15.38	25.06	121.04	0.500	206.54G	19.34	187.20
WBT (95)	US	NC	CHARLOTTE	212.03	15.05	24.58	117.96	0.500	211.93G	19.35	192.58
WBT (100)	US	NC	CHARLOTTE	211.96	14.75	24.16	115.21	0.500	216.99G	19.40	197.59
WBT (105)	US	NC	CHARLOTTE	211.91	14.48	23.76	112.68	0.500	221.87G	19.45	202.42
WBT (110)	US	NC	CHARLOTTE	211.87	14.22	23.39	110.31	0.500	226.63G	19.48	207.15
WBT (115)	US	NC	CHARLOTTE	211.85	13.97	23.03	108.06	0.500	231.34G	19.51	211.83
WBT (120)	US	NC	CHARLOTTE	211.81	13.73	22.69	105.90	0.500	236.06G	19.54	216.52
WBT (125)	US	NC	CHARLOTTE	211.77	13.50	22.35	103.79	0.500	240.88G	19.58	221.29
WBT (130)	US	NC	CHARLOTTE	211.72	13.26	22.00	101.68	0.500	245.87G	19.62	226.25
WBT (135)	US	NC	CHARLOTTE	211.69	13.03	21.66	99.56	0.500	251.10G	19.65	231.45
WBT (140)	US	NC	CHARLOTTE	211.70	12.79	21.31	97.43	0.500	256.59G	19.65	236.94
WBT (145)	US	NC	CHARLOTTE	211.77	12.55	20.96	95.29	0.500	262.34G	19.62	242.72
WBT (150)	US	NC	CHARLOTTE	211.91	12.31	20.61	93.17	0.500	268.32G	19.55	248.78
WBT (155)	US	NC	CHARLOTTE	212.13	12.07	20.26	91.09	0.500	274.46G	19.42	255.04
WBT (160)	US	NC	CHARLOTTE	212.45	11.84	19.92	89.08	0.500	280.65G	19.24	261.40
WBT (165)	US	NC	CHARLOTTE	212.86	11.62	19.60	87.16	0.500	286.82G	19.01	267.80
WBT (170)	US	NC	CHARLOTTE	213.36	11.41	19.30	85.37	0.500	292.85G	18.74	274.11
WBT (175)	US	NC	CHARLOTTE	213.95	11.22	19.02	83.71	0.500	298.64G	18.44	280.20

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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WBT 1110 kHz Charlotte, NC											
Call				Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)
WBT (180)	US	NC	CHARLOTTE	214.63	11.05	18.77	82.24	0.500	303.97G	18.11	285.87
WBT (185)	US	NC	CHARLOTTE	215.38	10.9	18.55	80.96	0.500	308.80G	17.77	291.03
WBT (190)	US	NC	CHARLOTTE	216.2	10.78	18.36	79.87	0.500	312.99G	17.42	295.57
WBT (195)	US	NC	CHARLOTTE	217.08	10.68	18.21	79	0.500	316.46G	17.09	299.36
WBT (200)	US	NC	CHARLOTTE	217.99	10.6	18.1	78.31	0.500	319.26G	16.79	302.46
WBT (205)	US	NC	CHARLOTTE	218.95	10.57	18.05	77.99	0.500	320.55G	16.51	304.04
WBT (210)	US	NC	CHARLOTTE	219.96	10.64	18.16	78.58	0.500	318.14G	16.26	301.89
WBT (215)	US	NC	CHARLOTTE	220.92	10.76	18.34	79.54	0.500	314.32G	16.03	298.29
WBT (220)	US	NC	CHARLOTTE	221.79	10.92	18.57	80.85	0.500	309.20G	15.87	293.34
WBT (225)	US	NC	CHARLOTTE	222.56	11.12	18.87	82.51	0.500	303.00G	15.73	287.27
WBT (230)	US	NC	CHARLOTTE	223.18	11.35	19.21	84.47	0.500	295.95G	15.6	280.35
WBT (235)	US	NC	CHARLOTTE	223.55	11.72	19.74	87.57	0.500	285.50G	15.51	269.99
WBT (240)	US	NC	CHARLOTTE	223.66	12.11	20.32	90.97	0.500	274.81G	15.42	259.39
WBT (245)	US	NC	CHARLOTTE	223.68	12.4	20.75	93.59	0.500	267.13G	15.36	251.77
WBT (250)	US	NC	CHARLOTTE	223.55	12.68	21.16	96.06	0.500	260.26G	15.31	244.95
WBT (255)	US	NC	CHARLOTTE	223.58	12.82	21.36	97.27	0.500	257.03G	15.29	241.74
WBT (260)	US	NC	CHARLOTTE	223.42	12.99	21.61	98.78	0.500	253.09G	15.27	237.82
WBT (265)	US	NC	CHARLOTTE	223.34	13.1	21.76	99.76	0.500	250.60G	15.26	235.34
WBT (270)	US	NC	CHARLOTTE	223.47	13.14	21.82	100.11	0.500	249.73G	15.24	234.49
WBT (275)	US	NC	CHARLOTTE	223.57	13.18	21.89	100.51	0.500	248.73G	15.21	233.51
WBT (280)	US	NC	CHARLOTTE	223.67	13.23	21.96	100.92	0.500	247.71G	15.2	232.51
WBT (285)	US	NC	CHARLOTTE	223.82	13.27	22.01	101.26	0.500	246.90G	15.16	231.74
WBT (290)	US	NC	CHARLOTTE	223.74	13.33	22.11	101.86	0.500	245.44G	15.17	230.27
WBT (295)	US	NC	CHARLOTTE	223.7	13.39	22.19	102.35	0.500	244.25G	15.15	229.09
WBT (300)	US	NC	CHARLOTTE	223.74	13.43	22.26	102.78	0.500	243.24G	15.15	228.09
WBT (305)	US	NC	CHARLOTTE	224.22	13.47	22.31	103.07	0.500	242.56G	15.08	227.48
WBT (310)	US	NC	CHARLOTTE	223.78	13.53	22.4	103.65	0.500	241.21G	15.13	226.08
WBT (315)	US	NC	CHARLOTTE	223.72	13.58	22.46	104.08	0.500	240.20G	15.11	225.09
WBT (320)	US	NC	CHARLOTTE	223.76	13.63	22.54	104.53	0.500	239.17G	15.11	224.07
WBT (325)	US	NC	CHARLOTTE	224.31	13.71	22.66	105.29	0.500	237.45G	15.03	222.42
WBT (330)	US	NC	CHARLOTTE	224.46	13.8	22.78	106.01	0.500	235.82G	14.99	220.83
WBT (335)	US	NC	CHARLOTTE	224.56	13.88	22.91	106.8	0.500	234.07G	14.96	219.11
WBT (340)	US	NC	CHARLOTTE	224.74	13.99	23.07	107.8	0.500	231.90G	14.92	216.98
WBT (345)	US	NC	CHARLOTTE	225.39	14.21	23.38	109.73	0.500	227.83G	14.83	213.01
WBT (350)	US	NC	CHARLOTTE	225.97	14.47	23.75	112.06	0.500	223.09G	14.72	208.37
WBT (355)	US	NC	CHARLOTTE	226.42	14.76	24.17	114.77	0.500	217.82G	14.62	203.2

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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KWKH 1130 kHz Shreveport, LA

Call	Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin			
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)
KWKH (0)	US	LA	SHREVEPORT	253.04	1.29	4.55	17.79	0.500	1405.08G	19.69	1385.39
KWKH (5)	US	LA	SHREVEPORT	252.87	1.31	4.58	17.87	0.500	1398.78G	19.69	1379.09
KWKH (10)	US	LA	SHREVEPORT	252.70	1.33	4.60	17.94	0.500	1393.19G	19.70	1373.49
KWKH (15)	US	LA	SHREVEPORT	252.55	1.35	4.63	18.01	0.500	1387.74G	19.70	1368.05
KWKH (20)	US	LA	SHREVEPORT	252.48	1.37	4.66	18.12	0.500	1379.63G	19.69	1359.93
KWKH (25)	US	LA	SHREVEPORT	252.35	1.40	4.69	18.21	0.500	1373.03G	19.70	1353.33
KWKH (30)	US	LA	SHREVEPORT	252.18	1.41	4.71	18.27	0.500	1368.44G	19.70	1348.74
KWKH (35)	US	LA	SHREVEPORT	252.00	1.42	4.72	18.31	0.500	1365.14G	19.70	1345.44
KWKH (40)	US	LA	SHREVEPORT	251.84	1.43	4.74	18.38	0.500	1360.40G	19.70	1340.70
KWKH (45)	US	LA	SHREVEPORT	251.67	1.45	4.76	18.45	0.500	1355.26G	19.70	1335.56
KWKH (50)	US	LA	SHREVEPORT	251.54	1.49	4.82	18.62	0.500	1342.76G	19.70	1323.07
KWKH (55)	US	LA	SHREVEPORT	251.34	1.51	4.85	18.72	0.500	1335.70G	19.70	1316.01
KWKH (60)	US	LA	SHREVEPORT	251.12	1.52	4.86	18.74	0.500	1333.93G	19.70	1314.23
KWKH (65)	US	LA	SHREVEPORT	250.90	1.49	4.82	18.65	0.500	1340.73G	19.69	1321.04
KWKH (70)	US	LA	SHREVEPORT	250.67	1.51	4.85	18.76	0.500	1332.88G	19.69	1313.19
KWKH (75)	US	LA	SHREVEPORT	250.30	1.59	4.96	19.08	0.500	1309.94G	19.68	1290.25
KWKH (80)	US	LA	SHREVEPORT	250.19	1.51	4.85	18.79	0.500	1330.80G	19.69	1311.11
KWKH (85)	US	LA	SHREVEPORT	249.89	1.52	4.87	18.86	0.500	1325.37G	19.68	1305.69
KWKH (90)	US	LA	SHREVEPORT	249.39	1.58	4.94	19.09	0.500	1309.43G	19.66	1289.77
KWKH (95)	US	LA	SHREVEPORT	248.88	1.60	4.98	19.24	0.500	1299.31G	19.65	1279.66
KWKH (100)	US	LA	SHREVEPORT	248.32	1.62	5.01	19.35	0.500	1292.08G	19.62	1272.46
KWKH (105)	US	LA	SHREVEPORT	247.73	1.63	5.01	19.41	0.500	1288.13G	19.60	1268.53
KWKH (110)	US	LA	SHREVEPORT	246.96	1.64	5.02	19.49	0.500	1282.40G	19.55	1262.85
KWKH (115)	US	LA	SHREVEPORT	246.44	1.60	4.97	19.40	0.500	1288.92G	19.52	1269.40
KWKH (120)	US	LA	SHREVEPORT	245.91	1.56	4.91	19.26	0.500	1297.88G	19.48	1278.39
KWKH (125)	US	LA	SHREVEPORT	245.34	1.50	4.84	19.11	0.500	1308.38G	19.44	1288.94
KWKH (130)	US	LA	SHREVEPORT	244.80	1.44	4.75	18.91	0.500	1322.35G	19.40	1302.95
KWKH (135)	US	LA	SHREVEPORT	244.29	1.36	4.65	18.66	0.500	1339.56G	19.36	1320.21
KWKH (140)	US	LA	SHREVEPORT	243.59	1.28	4.54	18.40	0.500	1358.48G	19.29	1339.19
KWKH (145)	US	LA	SHREVEPORT	242.96	1.18	4.40	18.08	0.500	1382.57G	19.23	1363.35
KWKH (150)	US	LA	SHREVEPORT	242.68	1.07	4.25	17.71	0.500	1411.53G	19.20	1392.33
KWKH (155)	US	LA	SHREVEPORT	243.98	1.00	4.15	17.39	0.500	1437.88G	19.34	1418.54
KWKH (160)	US	LA	SHREVEPORT	244.67	0.93	4.06	17.12	0.500	1460.48G	19.41	1441.07
KWKH (165)	US	LA	SHREVEPORT	244.91	0.86	3.96	16.85	0.500	1483.74G	19.43	1464.31
KWKH (170)	US	LA	SHREVEPORT	245.11	0.78	3.86	16.59	0.500	1507.37G	19.45	1487.92
KWKH (175)	US	LA	SHREVEPORT	245.36	0.71	3.76	16.33	0.500	1530.47G	19.48	1510.99

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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KWKH 1130 kHz Shreveport, LA											
Call				Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	(mV/m)
KWKH (180)	US	LA	SHREVEPORT	245.65	0.64	3.67	16.10	0.500	1552.83G	19.50	1533.33
KWKH (185)	US	LA	SHREVEPORT	245.95	0.58	3.58	15.87	0.500	1575.11G	19.52	1555.59
KWKH (190)	US	LA	SHREVEPORT	246.27	0.51	3.50	15.65	0.500	1597.42G	19.55	1577.87
KWKH (195)	US	LA	SHREVEPORT	246.79	0.48	3.45	15.52	0.500	1611.20G	19.58	1591.62
KWKH (200)	US	LA	SHREVEPORT	247.24	0.44	3.40	15.37	0.500	1626.55G	19.61	1606.94
KWKH (205)	US	LA	SHREVEPORT	247.69	0.41	3.36	15.23	0.500	1641.05G	19.64	1621.42
KWKH (210)	US	LA	SHREVEPORT	248.15	0.38	3.32	15.12	0.500	1653.55G	19.66	1633.89
KWKH (215)	US	LA	SHREVEPORT	248.58	0.35	3.27	14.99	0.500	1668.24G	19.68	1648.56
KWKH (220)	US	LA	SHREVEPORT	249.02	0.31	3.23	14.86	0.500	1682.89G	19.69	1663.19
KWKH (225)	US	LA	SHREVEPORT	249.47	0.28	3.19	14.73	0.500	1696.65G	19.71	1676.94
KWKH (230)	US	LA	SHREVEPORT	249.95	0.26	3.15	14.62	0.500	1709.48G	19.72	1689.77
KWKH (235)	US	LA	SHREVEPORT	250.43	0.23	3.12	14.53	0.500	1721.07G	19.73	1701.34
KWKH (240)	US	LA	SHREVEPORT	250.94	0.22	3.10	14.44	0.500	1731.59G	19.73	1711.85
KWKH (245)	US	LA	SHREVEPORT	251.46	0.21	3.09	14.38	0.500	1738.04G	19.73	1718.30
KWKH (250)	US	LA	SHREVEPORT	251.97	0.23	3.11	14.40	0.500	1736.69G	19.73	1716.96
KWKH (255)	US	LA	SHREVEPORT	252.46	0.25	3.15	14.43	0.500	1732.11G	19.73	1712.38
KWKH (260)	US	LA	SHREVEPORT	252.93	0.28	3.19	14.49	0.500	1725.25G	19.72	1705.53
KWKH (265)	US	LA	SHREVEPORT	253.38	0.32	3.24	14.57	0.500	1715.82G	19.71	1696.12
KWKH (270)	US	LA	SHREVEPORT	253.78	0.36	3.30	14.68	0.500	1703.02G	19.70	1683.32
KWKH (275)	US	LA	SHREVEPORT	254.13	0.42	3.37	14.82	0.500	1686.82G	19.68	1667.14
KWKH (280)	US	LA	SHREVEPORT	254.42	0.48	3.46	14.99	0.500	1667.66G	19.67	1647.98
KWKH (285)	US	LA	SHREVEPORT	254.64	0.55	3.55	15.19	0.500	1646.20G	19.66	1626.53
KWKH (290)	US	LA	SHREVEPORT	254.79	0.62	3.65	15.40	0.500	1623.14G	19.65	1603.49
KWKH (295)	US	LA	SHREVEPORT	254.84	0.70	3.75	15.64	0.500	1598.03G	19.65	1578.37
KWKH (300)	US	LA	SHREVEPORT	254.74	0.78	3.86	15.92	0.500	1570.19G	19.65	1550.53
KWKH (305)	US	LA	SHREVEPORT	254.55	0.86	3.97	16.20	0.500	1543.13G	19.66	1523.47
KWKH (310)	US	LA	SHREVEPORT	254.27	0.94	4.07	16.47	0.500	1518.06G	19.67	1498.40
KWKH (315)	US	LA	SHREVEPORT	253.89	1.01	4.16	16.72	0.500	1495.09G	19.68	1475.42
KWKH (320)	US	LA	SHREVEPORT	253.47	1.06	4.24	16.94	0.500	1475.86G	19.69	1456.17
KWKH (325)	US	LA	SHREVEPORT	253.58	1.09	4.28	17.03	0.500	1467.62G	19.68	1447.94
KWKH (330)	US	LA	SHREVEPORT	253.64	1.12	4.32	17.14	0.500	1458.42G	19.68	1438.74
KWKH (335)	US	LA	SHREVEPORT	253.62	1.16	4.37	17.26	0.500	1448.52G	19.68	1428.84
KWKH (340)	US	LA	SHREVEPORT	253.60	1.19	4.41	17.38	0.500	1438.70G	19.68	1419.02
KWKH (345)	US	LA	SHREVEPORT	253.58	1.22	4.46	17.50	0.500	1428.89G	19.68	1409.21
KWKH (350)	US	LA	SHREVEPORT	253.52	1.25	4.50	17.62	0.500	1419.18G	19.68	1399.50
KWKH (355)	US	LA	SHREVEPORT	253.40	1.28	4.54	17.73	0.500	1410.12G	19.68	1390.44

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
 (Page 7 of 8)

KFAB 1110 kHz Omaha, NE

Call	Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin			
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	
KFAB (0)	US	NE	OMAHA	293.19	1.16	4.37	13.36	0.500	1870.92G	14.07	1856.85
KFAB (5)	US	NE	OMAHA	293.13	1.27	4.52	13.74	0.500	1819.13G	14.07	1805.07
KFAB (10)	US	NE	OMAHA	292.93	1.38	4.67	14.14	0.500	1768.11G	14.07	1754.05
KFAB (15)	US	NE	OMAHA	292.60	1.48	4.81	14.54	0.500	1719.52G	14.07	1705.44
KFAB (20)	US	NE	OMAHA	292.14	1.58	4.94	14.93	0.500	1674.91G	14.09	1660.82
KFAB (25)	US	NE	OMAHA	291.58	1.66	5.05	15.28	0.500	1635.60G	14.12	1621.48
KFAB (30)	US	NE	OMAHA	290.93	1.72	5.14	15.60	0.500	1602.61G	14.16	1588.45
KFAB (35)	US	NE	OMAHA	290.23	1.77	5.21	15.86	0.500	1576.48G	14.21	1562.27
KFAB (40)	US	NE	OMAHA	289.48	1.80	5.24	16.05	0.500	1557.92G	14.29	1543.64
KFAB (45)	US	NE	OMAHA	288.70	1.80	5.25	16.16	0.500	1547.33G	14.37	1532.96
KFAB (50)	US	NE	OMAHA	287.94	1.78	5.23	16.18	0.500	1544.82G	14.47	1530.35
KFAB (55)	US	NE	OMAHA	287.20	1.75	5.18	16.12	0.500	1550.39G	14.57	1535.82
KFAB (60)	US	NE	OMAHA	286.54	1.69	5.10	15.99	0.500	1563.39G	14.67	1548.72
KFAB (65)	US	NE	OMAHA	285.95	1.62	5.00	15.78	0.500	1583.91G	14.76	1569.15
KFAB (70)	US	NE	OMAHA	285.50	1.54	4.89	15.55	0.500	1607.88G	14.84	1593.04
KFAB (75)	US	NE	OMAHA	285.34	1.54	4.89	15.57	0.500	1606.13G	14.86	1591.27
KFAB (80)	US	NE	OMAHA	285.21	1.55	4.91	15.63	0.500	1599.08G	14.88	1584.20
KFAB (85)	US	NE	OMAHA	285.05	1.54	4.90	15.62	0.500	1600.06G	14.91	1585.15
KFAB (90)	US	NE	OMAHA	284.91	1.55	4.90	15.65	0.500	1597.14G	14.94	1582.21
KFAB (95)	US	NE	OMAHA	284.76	1.56	4.91	15.69	0.500	1592.93G	14.96	1577.97
KFAB (100)	US	NE	OMAHA	284.59	1.57	4.94	15.78	0.500	1584.06G	14.99	1569.07
KFAB (105)	US	NE	OMAHA	284.41	1.58	4.95	15.84	0.500	1578.51G	15.02	1563.49
KFAB (110)	US	NE	OMAHA	284.23	1.58	4.95	15.86	0.500	1576.60G	15.05	1561.55
KFAB (115)	US	NE	OMAHA	284.05	1.58	4.95	15.87	0.500	1575.33G	15.08	1560.25
KFAB (120)	US	NE	OMAHA	283.86	1.58	4.94	15.88	0.500	1574.37G	15.11	1559.26
KFAB (125)	US	NE	OMAHA	283.67	1.57	4.93	15.87	0.500	1574.87G	15.15	1559.73
KFAB (130)	US	NE	OMAHA	283.50	1.56	4.91	15.84	0.500	1578.49G	15.18	1563.31
KFAB (135)	US	NE	OMAHA	283.32	1.54	4.90	15.81	0.500	1581.19G	15.21	1565.98
KFAB (140)	US	NE	OMAHA	283.12	1.53	4.88	15.79	0.500	1583.45G	15.25	1568.20
KFAB (145)	US	NE	OMAHA	282.83	1.53	4.87	15.80	0.500	1582.23G	15.30	1566.93
KFAB (150)	US	NE	OMAHA	281.92	1.57	4.93	16.05	0.500	1558.00G	15.47	1542.53
KFAB (155)	US	NE	OMAHA	280.88	1.59	4.96	16.24	0.500	1539.67G	15.67	1524.01
KFAB (160)	US	NE	OMAHA	279.93	1.57	4.93	16.29	0.500	1535.09G	15.85	1519.24
KFAB (165)	US	NE	OMAHA	279.21	1.52	4.87	16.19	0.500	1543.91G	16.00	1527.92
KFAB (170)	US	NE	OMAHA	278.67	1.46	4.78	16.01	0.500	1561.82G	16.10	1545.72
KFAB (175)	US	NE	OMAHA	278.30	1.38	4.67	15.76	0.500	1586.26G	16.18	1570.08

Exhibit 13 – Table V
PROTECTION TO FIRST ADJACENT CHANNEL CLASS A STATIONS WBBR, WBT, KWKH, KFAB
 prepared March 2017 for
New World Radio, Inc.
 WUST Washington, DC (FCC Facility ID 48686)
 1120 kHz 50 kW-D 3 kW-CH 0.05 kW-N
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KFAB 1110 kHz Omaha, NE											
Call	Azi	Ang Low	Ang High	SWFF	Req Prot	Permis	Cur Rad	Margin			
Letters	Ct	St	City	(deg)	(deg)	(deg)	(100uV/m)	(mV/m)	(mV/m)	(mV/m)	
KFAB (180)	US	NE	OMAHA	277.92	1.29	4.54	15.49	0.500	1614.26G	16.26	1598.00
KFAB (185)	US	NE	OMAHA	277.55	1.19	4.41	15.18	0.500	1646.55G	16.34	1630.21
KFAB (190)	US	NE	OMAHA	277.30	1.08	4.26	14.85	0.500	1683.65G	16.39	1667.26
KFAB (195)	US	NE	OMAHA	277.20	0.97	4.12	14.50	0.500	1724.36G	16.41	1707.95
KFAB (200)	US	NE	OMAHA	277.29	0.87	3.97	14.15	0.500	1766.80G	16.39	1750.41
KFAB (205)	US	NE	OMAHA	277.53	0.77	3.84	13.82	0.500	1809.15G	16.35	1792.80
KFAB (210)	US	NE	OMAHA	277.71	0.67	3.70	13.47	0.500	1855.50G	16.32	1839.18
KFAB (215)	US	NE	OMAHA	277.96	0.56	3.57	13.14	0.500	1903.26G	16.27	1886.99
KFAB (220)	US	NE	OMAHA	278.29	0.47	3.44	12.81	0.500	1951.69G	16.20	1935.49
KFAB (225)	US	NE	OMAHA	278.66	0.37	3.31	12.49	0.500	2001.99G	16.13	1985.86
KFAB (230)	US	NE	OMAHA	279.06	0.27	3.17	12.16	0.500	2055.72G	16.05	2039.67
KFAB (235)	US	NE	OMAHA	279.55	0.18	3.05	11.85	0.500	2108.84G	15.96	2092.88
KFAB (240)	US	NE	OMAHA	280.09	0.09	2.94	11.56	0.500	2162.15G	15.85	2146.30
KFAB (245)	US	NE	OMAHA	280.69	0.01	2.83	11.28	0.500	2216.11G	15.73	2200.38
KFAB (250)	US	NE	OMAHA	281.33	0.00	2.73	11.01	0.500	2271.64G	15.61	2256.03
KFAB (255)	US	NE	OMAHA	282.03	0.00	2.64	10.76	0.500	2323.60G	15.48	2308.13
KFAB (260)	US	NE	OMAHA	282.83	0.00	2.61	10.62	0.500	2353.58G	15.33	2338.26
KFAB (265)	US	NE	OMAHA	283.65	0.00	2.62	10.56	0.500	2367.26G	15.18	2352.08
KFAB (270)	US	NE	OMAHA	284.45	0.00	2.67	10.56	0.500	2367.34G	15.04	2352.30
KFAB (275)	US	NE	OMAHA	285.21	0.00	2.72	10.60	0.500	2359.03G	14.91	2344.12
KFAB (280)	US	NE	OMAHA	285.92	0.00	2.80	10.68	0.500	2341.56G	14.79	2326.76
KFAB (285)	US	NE	OMAHA	286.57	0.06	2.89	10.79	0.500	2317.18G	14.69	2302.48
KFAB (290)	US	NE	OMAHA	286.96	0.24	3.13	11.24	0.500	2225.06G	14.64	2210.43
KFAB (295)	US	NE	OMAHA	287.51	0.28	3.19	11.30	0.500	2211.44G	14.56	2196.88
KFAB (300)	US	NE	OMAHA	288.06	0.32	3.24	11.35	0.500	2202.88G	14.48	2188.40
KFAB (305)	US	NE	OMAHA	288.80	0.31	3.22	11.24	0.500	2225.00G	14.39	2210.61
KFAB (310)	US	NE	OMAHA	289.41	0.34	3.27	11.27	0.500	2217.44G	14.33	2203.12
KFAB (315)	US	NE	OMAHA	289.98	0.39	3.34	11.35	0.500	2202.75G	14.27	2188.48
KFAB (320)	US	NE	OMAHA	290.53	0.45	3.41	11.45	0.500	2183.61G	14.22	2169.39
KFAB (325)	US	NE	OMAHA	291.12	0.50	3.48	11.54	0.500	2165.71G	14.17	2151.54
KFAB (330)	US	NE	OMAHA	291.71	0.57	3.57	11.66	0.500	2144.08G	14.13	2129.94
KFAB (335)	US	NE	OMAHA	292.28	0.63	3.66	11.80	0.500	2118.07G	14.10	2103.96
KFAB (340)	US	NE	OMAHA	292.81	0.71	3.77	11.99	0.500	2085.88G	14.08	2071.80
KFAB (345)	US	NE	OMAHA	293.15	0.81	3.90	12.26	0.500	2039.78G	14.08	2025.70
KFAB (350)	US	NE	OMAHA	293.08	0.94	4.07	12.66	0.500	1975.16G	14.08	1961.09
KFAB (355)	US	NE	OMAHA	293.15	1.05	4.22	13.01	0.500	1922.32G	14.07	1908.24