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Cary S. Tepper
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Of Counsel

John C. Trent *

**** not admitted in Maryland***

July 14, 2021

Marlene H. Dortch, Secretary
Federal Communications Commission
45 L. Street, NE
Washington, DC 20554

Re: WRCR-AM (64556)
Haverstraw, NY
FCC FORM 302-AM LICENSE APPLICATION

Dear Ms. Dortch:

On behalf of **Alexander Broadcasting, Inc.** we herewith submit an FCC Form 302-AM License Application to cover Construction Permit BP-20200813AAK to specify Haverstraw, New York as the station's new community of license.

Filing Fee Submission: Pursuant to FCC Public Notice DA 20-266 (released March 13, 2020) this license application is being emailed to Jim Bradshaw and Nazifa Sawez. Once the application is assigned a File Number, the filing fee will be paid using the FCC's Fee Filer System.

Should any questions arise concerning this matter, please contact this office.

Sincerely,

Cary S. Tepper

Cary S. Tepper

Attachments
cc: WRCR Online Public Inspection File
James Bradshaw (FCC – via email)
Nazifa Sawez (FCC – via email)

Federal Communications Commission
Washington, D. C. 20554

Approved by OMB
3060-0627
Expires 01/31/98

FOR FCC USE ONLY

FCC 302-AM
APPLICATION FOR AM BROADCAST STATION LICENSE

(Please read instructions before filling out form.

FOR COMMISSION USE ONLY

FILE NO.

SECTION I - APPLICANT FEE INFORMATION

1. PAYOR NAME (Last, First, Middle Initial)

Alexander Broadcasting, Inc.

MAILING ADDRESS (Line 1) (Maximum 35 characters)
144 Ramapo Road

MAILING ADDRESS (Line 2) (Maximum 35 characters)
Unite #10

CITY	STATE OR COUNTRY (if foreign address)	ZIP CODE
Garnerville	NY	10923

TELEPHONE NUMBER (include area code)	CALL LETTERS	OTHER FCC IDENTIFIER (If applicable)
(845) 429-1700	WRCR	64556

2. A. Is a fee submitted with this application? [✓] Yes [ ] No

B. If No, indicate reason for fee exemption (see 47 C.F.R. Section

[ ] Governmental Entity [ ] Noncommercial educational licensee [ ] Other (Please explain):

C. If Yes, provide the following information:

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter fee amount due in Column (C).

(A) FEE TYPE CODE	(B) FEE MULTIPLE	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
M M R	0 0 0 1	$ 725.00	

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)	(B)	(C)	FOR FCC USE ONLY
	0 0 0 1	$	

	TOTAL AMOUNT REMITTED WITH THIS APPLICATION	FOR FCC USE ONLY
ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.	$ 725.00	

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Alexander Broadcasting, Inc.		
MAILING ADDRESS 144 Ramapo Road; Unit #10		
CITY Garnerville	STATE NY	ZIP CODE 10923

2. This application is for:

☑ Commercial ☐ Noncommercial

☐ AM Directional ☑ AM Non-Directional

Call letters	Community of License	Construction Permit File No.	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit
WRCR	Haverstraw, NY	BP-20200813AAK		4/23/2024

3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

☑ Yes ☐ No

Exhibit No.

If No, explain in an Exhibit.

4. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met?

☑ Yes ☐ No

Exhibit No.

If No, state exceptions in an Exhibit.

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?

☐ Yes ☑ No

Exhibit No.

If Yes, explain in an Exhibit.

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)?

☑ Yes ☐ No

☐ Does not apply

Exhibit No.

If No, explain in an Exhibit.

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?

☐ Yes ☑ No

Exhibit No.

If the answer is Yes, attach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and the disposition of the litigation. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 U.S.C. Section 1.65(c), the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.

8. Does the applicant, or any party to the application, have a petition on file to migrate to the expanded band (1605-1705 kHz) or a permit or license either in the existing band or expanded band that is held in combination (pursuant to the 5 year holding period allowed) with the AM facility proposed to be modified herein?

☐ Yes ☑ No

If Yes, provide particulars as an Exhibit.

Exhibit No.

The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended).

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

CERTIFICATION

1. By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

☑ Yes ☐ No

2. I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Name	Signature	
Alexander Medakovich, M.D.	A. Medakovich Jr.	
Title	Date	Telephone Number
President	7/14/21	(845) 429-1700

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant
ALEXANDER BROADCASTING, INC.

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

[X] Station License [ ] Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
				Night	Day
WRCR	BP-20200813AAK	1700	UNLIMITED	1.0	10.0

2. Station location

State	City or Town
NEW YORK	HAVERSTRAW

3. Transmitter location

State	County	City or Town	Street address (or other identification)
NY	ROCKLAND	POMONA	188 S CENTRAL HWY

4. Main studio location

State	County	City or Town	Street address (or other identification)
NY	ROCKLAND	GARNERVILLE	144 RAMAPO ROAD

5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)

6. Has type-approved stereo generating equipment been installed? [ ] Yes [ ] No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68? [ ] Yes [ ] No [X] Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed. Exhibit No.

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system	RF common point or antenna current (in amperes) without modulation for day system
Measured antenna or common point resistance (in ohms) at operating frequency Night Day	Measured antenna or common point reactance (in ohms) at operating frequency Night Day

Antenna indications for directional operation NA

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day

Manufacturer and type of antenna monitor:

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
GUYED TOWER	56.4	56.4	56.4	Exhibit No.

Excitation ☐ Series ☒ Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	41 °	11 '	22"	West Longitude	74 °	00 '	55"

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits. Exhibit No.

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system. Exhibit No.

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

11. Give reasons for the change in antenna or common point resistance.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type)	Signature (check appropriate box below)
Clarence M. Beverage	
Address (include ZIP Code) Communications Technologies, Inc. 23 Binsted Drive Medford, NJ 08055	Date 07/08/2021
	Telephone No. (Include Area Code) 609-451-5296

☐ Technical Director ☐ Registered Professional Engineer

☐ Chief Operator ☐ Technical Consultant

☒ Other (specify) Broadcast Engineering Consultant

ENGINEERING STATEMENT
PREPARED IN SUPPORT OF APPLICATION
FOR LICENSE
ALEXANDER BROADCASTING, INC.
WRCR(AM) FCC ID #64556
1/10 kW LS ND-U 1700 kHz
HAVERSTRAW, NEW YORK

JULY 2021

SUMMARY

The following engineering statement has been prepared in support of an Application for Station License by **Alexander Broadcasting, Inc.** ("ABI") in accordance with construction permit BP-20200813AAK which authorizes fulltime, standard broadcast facilities for WRCR(AM), 1700 kHz at Haverstraw, New York., FCC ID # 64556. The authorized antenna system is an existing tower owned by ABI and thus believed to be a suitable site for long term licensed operation. The proposed tower is a guyed, uniform cross section steel tower excited through a slant wire feed. Due to the method of feeding the tower a ground system is not required.

ABI was granted an STA to operate on the proposed tower on March 14, 2019, BSTA-20190301ABK. Since that time, the station has operated at one quarter of licensed power and the extent of the service area appears to line up with the calculated radiation efficiency. The radiator has been stable.

SPECIAL OPERATING CONDITIONS

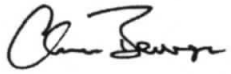
The permittee agrees to the special operating conditions on the construction permit as follows:

1. FCC form 302-AM is submitted herein well before the CP expiration date. The facility was inspected by William P. Weeks who did the NEC 4.2 modeling and whose certification is attached.
2. The permittee agrees to reduce power or cease operation to meet FCC OET-65 worker and public exposure guidelines.
3. The licensee agrees to satisfy all reasonable complaints of blanketing interference as required by Section 73.88 of the Commission's rules.
4. The tower is a guyed, uniform cross section, steel tower excited through a slant wire feed system with no ground system.
5. Below is the data submitted and reviewed by Commission staff establishing that the inverse distance field at one kilometer is essentially 305 mV/m @ 1 kilometer for 1 kilowatt.

The station submitted NEC 4.2 computations to confirm the pattern shape and radiation efficiency as part of the application for CP. Exhibit I is a NEC 4.2 analysis of the proposed tower. The calculated radiation efficiency for the 56.4 meter, 185 foot, 115.1 degree, uniform cross section tower with slant feed is 305 mV/m RMS at 1 kM for 1 kW and that value is specified on the construction permit. The maximum radiated field is 314.2 mV/m at 330 degrees true and the minimum radiated field is 290.75 mV/m at an azimuth of 60 degrees which is a deviation of 0.67 dB or plus and minus 0.33 dB which is believed to be well within the 2 dB tolerance specified in rule section 1.30002(a). The calculated antenna system radiation efficiency has been specified for both day and night Omni operation.

CONCLUSION

The foregoing was prepared on behalf of **Alexander Broadcasting, Inc.** by Clarence M. Beverage of *Communications Technologies, Inc.*, Medford, 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

July 08, 2021

EXHIBIT I

PHYSICAL DESCRIPTION OF ANTENNA SYSTEM
And NEC 4.2 Calculated Horizontal Plane Radiation Pattern
WRCR(AM) 1700 kHz 1/10 kW LS ND-U
HAVERSTRAW, NEW YORK
July 2021

TRANSMITTER SITE:	North Latitude:	41° 11' 22"
(NAD27)	West Longitude:	74° 00' 55"
TOWER: 1	Electrical 115.1°	
	56.4 meters above base - tower steel, shunt fed	
	56.4 meters AGL overall height – no lighting	
RADIATOR TYPE:	Vertical, grounded, guyed, uniform cross section tower.	
PATTERN ASSUMPTION:	Sinusoidal current distribution in tower	
GROUND SYSTEM:	The tower is excited through a sloping cable wire 101 connected to wire 100 which connects to the very top of the 185 foot tower. By feeding the tower at the top the current is distributed much more evenly over the tower and guy wires all of which are connected together as one radiating system. A six foot ground rod is installed on each guy anchor and at the tower base.	
FIELD STRENGTH:	Theoretical 305 mV/m @ 1 kM for 1 kW	
	(Based on NEC 4.2 analysis over Perfect Earth)	

EZNEC Pro/4 ver. 6.0

WRCR 185 Foot Tower 8/12/2020 3:27:42 PM

---------- GROUND WAVE PATTERN DATA ----------

Frequency = 1.7 MHz
Actual field strength (mV/m) for power = 1000 watts

Azimuth Pattern Distance = 3280 ft Height = 5 ft

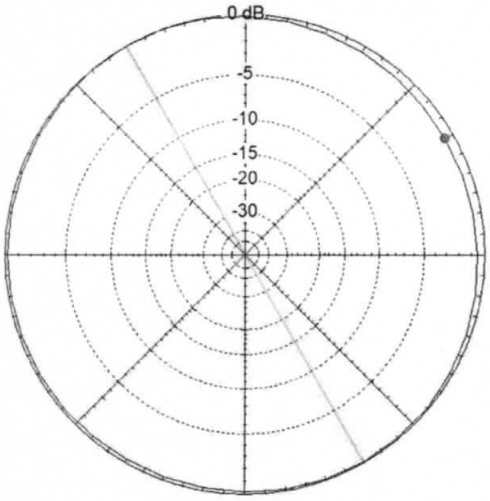
Bear	V Fld	H Fld	Rad Fld	V Pha	H Pha	Rad Pha
0	309.19	0.27585	0	98.27	114.40	0.00
10	305.4	0.24241	0	97.40	111.71	0.00
20	301.22	0.20124	0	96.24	109.62	0.00
30	297.28	0.15386	0	94.93	107.95	0.00
40	294.03	0.10195	0	93.73	106.35	0.00
50	291.8	0.047219	0	92.89	103.21	0.00
60	290.75	0.0099821	0	92.60	-47.39	0.00
70	290.94	0.065114	0	92.94	-68.08	0.00
80	292.39	0.1192	0	93.84	-69.26	0.00
90	295.03	0.16996	0	95.07	-68.99	0.00
100	298.51	0.21566	0	96.38	-67.96	0.00
110	302.41	0.25463	0	97.51	-66.22	0.00
120	306.09	0.28537	0	98.33	-63.75	0.00
130	309.03	0.30692	0	98.82	-60.51	0.00
140	310.86	0.31897	0	99.08	-56.53	0.00
150	311.35	0.32187	0	99.30	-51.90	0.00
160	310.71	0.31627	0	99.71	-46.82	0.00
170	309.24	0.30272	0	100.53	-41.54	0.00
180	307.49	0.28133	0	101.88	-36.35	0.00
190	306.01	0.25181	0	103.73	-31.51	0.00
200	305.25	0.21383	0	105.92	-27.19	0.00
210	305.35	0.16748	0	108.18	-23.44	0.00
220	306.04	0.11371	0	110.15	-19.98	0.00
230	306.89	0.054467	0	111.51	-14.86	0.00
240	307.37	0.01067	0	112.04	120.23	0.00
250	307.3	0.070929	0	111.67	152.90	0.00
260	306.87	0.12975	0	110.45	153.98	0.00
270	306.51	0.18267	0	108.58	152.55	0.00
280	306.75	0.22771	0	106.39	149.80	0.00
290	307.79	0.26389	0	104.20	146.08	0.00
300	309.57	0.29111	0	102.32	141.60	0.00
310	311.59	0.30972	0	100.91	136.64	0.00
320	313.32	0.32011	0	100.01	131.49	0.00
330	314.2	0.3223	0	99.49	126.45	0.00
340	313.85	0.31591	0	99.18	121.82	0.00
350	312.14	0.30048	0	98.83	117.76	0.00
360	309.19	0.27585	0	98.27	114.40	0.00

RMS of 36 Radials = 305.019 mV/m

POLAR PLOT

Total Field

EZNEC Pro/4



1.7 MHz

Azimuth Plot
Observation Ht 5 ft
Outer Ring 5.17 dBi

Slice Max Gain 5.17 dBi @ Bearing = 330.0 deg.
Front/Back 0.00 dB
Beamwidth 7
Sidelobe Gain 5.09 dBi @ Bearing = 150.0 deg.
Front/Sidelobe 0.08 dB

Cursor Bear 60.0 deg.
Gain 4.5 dBi
-0.67 dBmax

BASE IMPEDANCE

EZNEC Pro/4 ver. 6.0

WRCR 185 Foot Tower 8/12/2020 3:36:22 PM

---------- SOURCE DATA ----------

Frequency = 1.7 MHz

Source 1 Voltage = 407.6 V at -43.03 deg.
Current = 3.356 A at 0.0 deg.
Impedance = 88.77 - J 82.86 ohms
Power = 1000 watts
SWR (50 ohm system) = 3.609 (50 ohm system) = 3.609

EZNEC Pro/4

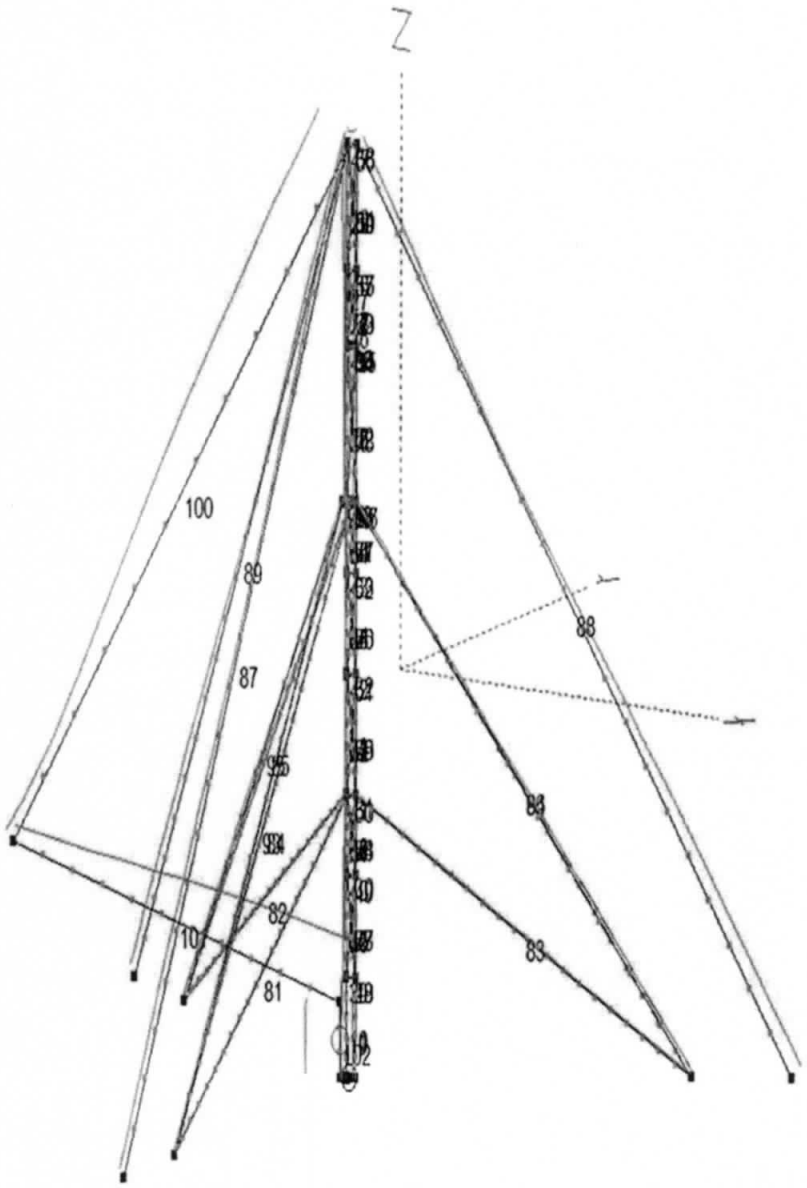


EXHIBIT I – Page 5

WIRE MODEL

EZNEC Pro/4 ver. 6.0

WRCR 185 Foot Tower 8/12/2020 3:45:00 PM

---------- WIRES ----------

No.	End 1 Conn.	End 1 Coord. (ft) X	Y	Z	End 2 Conn.	End 2 Coord. (ft) X	Y	Z	Dia (in)	Segs	Insulation Diel C	Thk(in)	Loss Tan
1	GND	1.7,	1,	0	W2E1	1.7,	1,	20	2	5	1	0	0
2	W29E1	1.7,	1,	20	W3E1	1.7,	1,	40	2	5	1	0	0
3	W30E1	1.7,	1,	40	W4E1	1.7,	1,	56	2	5	1	0	0
4	W31E1	1.7,	1,	56	W5E1	1.7,	1,	80	2	5	1	0	0
5	W32E1	1.7,	1,	80	W6E1	1.7,	1,	100	2	5	1	0	0
6	W33E1	1.7,	1,	100	W7E1	1.7,	1,	114	2	5	1	0	0
7	W34E1	1.7,	1,	114	W8E1	1.7,	1,	145	2	5	1	0	0
8	W35E1	1.7,	1,	145	W9E1	1.7,	1,	160	2	5	1	0	0
9	W37E1	1.7,	1,	160	W38E1	1.7,	1,	185	2	5	1	0	0
10	GND	-1.7,	1,	0	W11E1	-1.7,	1,	20	2	5	1	0	0
11	W29E2	-1.7,	1,	20	W12E1	-1.7,	1,	40	2	5	1	0	0
12	W30E2	-1.7,	1,	40	W13E1	-1.7,	1,	56	2	5	1	0	0
13	W31E2	-1.7,	1,	56	W14E1	-1.7,	1,	80	2	5	1	0	0
14	W32E2	-1.7,	1,	80	W15E1	-1.7,	1,	100	2	5	1	0	0
15	W33E2	-1.7,	1,	100	W16E1	-1.7,	1,	114	2	5	1	0	0
16	W34E2	-1.7,	1,	114	W17E1	-1.7,	1,	145	2	5	1	0	0
17	W36E2	-1.7,	1,	145	W18E1	-1.7,	1,	160	2	5	1	0	0
18	W37E2	-1.7,	1,	160	W38E2	-1.7,	1,	185	2	5	1	0	0
19	GND	0,	-2,	0	W20E1	0,	-2,	20	2	5	1	0	0
20	W39E2	0,	-2,	20	W21E1	0,	-2,	40	2	5	1	0	0
21	W40E2	0,	-2,	40	W22E1	0,	-2,	56	2	5	1	0	0
22	W41E2	0,	-2,	56	W23E1	0,	-2,	80	2	5	1	0	0
23	W42E2	0,	-2,	80	W24E1	0,	-2,	100	2	5	1	0	0
24	W43E2	0,	-2,	100	W25E1	0,	-2,	114	2	5	1	0	0
25	W44E2	0,	-2,	114	W26E1	0,	-2,	145	2	5	1	0	0
26	W45E2	0,	-2,	145	W27E1	0,	-2,	155	2	5	1	0	0
27	W26E2	0,	-2,	155	W28E1	0,	-2,	160	0.25	3	1	0	0
28	W46E2	0,	-2,	160	W47E2	0,	-2,	185	2	5	1	0	0
29	W48E2	1.7,	1,	20	W39E1	-1.7,	1,	20	1	1	1	0	0
30	W49E2	1.7,	1,	40	W40E1	-1.7,	1,	40	1	1	1	0	0
31	W50E2	1.7,	1,	56	W41E1	-1.7,	1,	56	1	1	1	0	0
32	W51E2	1.7,	1,	80	W42E1	-1.7,	1,	80	1	1	1	0	0
33	W52E2	1.7,	1,	100	W43E1	-1.7,	1,	100	1	1	1	0	0
34	W53E2	1.7,	1,	114	W44E1	-1.7,	1,	114	1	1	1	0	0
35	W54E2	1.7,	1,	145	W36E1	0,	1,	145	1	1	1	0	0
36	W90E1	0,	1,	145	W45E1	-1.7,	1,	145	1	1	1	0	0
37	W55E2	1.7,	1,	160	W46E1	-1.7,	1,	160	1	1	1	0	0
38	W56E2	1.7,	1,	185	W47E1	-1.7,	1,	185	1	1	1	0	0
39	W65E1	-1.7,	1,	20	W48E1	0,	-2,	20	1	1	1	0	0
40	W57E2	-1.7,	1,	40	W49E1	0,	-2,	40	1	1	1	0	0
41	W58E2	-1.7,	1,	56	W50E1	0,	-2,	56	1	1	1	0	0
42	W59E2	-1.7,	1,	80	W51E1	0,	-2,	80	1	1	1	0	0
43	W60E2	-1.7,	1,	100	W52E1	0,	-2,	100	1	1	1	0	0
44	W61E2	-1.7,	1,	114	W53E1	0,	-2,	114	1	1	1	0	0
45	W62E2	-1.7,	1,	145	W54E1	0,	-2,	145	1	1	1	0	0
46	W63E2	-1.7,	1,	160	W55E1	0,	-2,	160	1	1	1	0	0
47	W64E2	-1.7,	1,	185	W56E1	0,	-2,	185	1	1	1	0	0
48	W73E1	0,	-2,	20	W57E1	1.7,	1,	20	1	1	1	0	0
49	W65E2	0,	-2,	40	W58E1	1.7,	1,	40	1	1	1	0	0
50	W66E2	0,	-2,	56	W59E1	1.7,	1,	56	1	1	1	0	0
51	W67E2	0,	-2,	80	W60E1	1.7,	1,	80	1	1	1	0	0
52	W68E2	0,	-2,	100	W61E1	1.7,	1,	100	1	1	1	0	0
53	W69E2	0,	-2,	114	W62E1	1.7,	1,	114	1	1	1	0	0
54	W70E2	0,	-2,	145	W63E1	1.7,	1,	145	1	1	1	0	0
55	W71E2	0,	-2,	160	W64E1	1.7,	1,	160	1	1	1	0	0
56	W72E2	0,	-2,	185	W80E2	1.7,	1,	185	1	1	1	0	0
57	W1E2	1.7,	1,	20	W66E1	-1.7,	1,	40	1	5	1	0	0
58	W73E2	1.7,	1,	40	W67E1	-1.7,	1,	56	1	5	1	0	0
59	W74E2	1.7,	1,	56	W68E1	-1.7,	1,	80	1	5	1	0	0
60	W75E2	1.7,	1,	80	W69E1	-1.7,	1,	100	1	5	1	0	0
61	W76E2	1.7,	1,	100	W70E1	-1.7,	1,	114	1	5	1	0	0
62	W77E2	1.7,	1,	114	W71E1	-1.7,	1,	145	1	5	1	0	0
63	W78E2	1.7,	1,	145	W72E1	-1.7,	1,	160	1	5	1	0	0
64	W79E2	1.7,	1,	160	W89E1	-1.7,	1,	185	1	5	1	0	0
65	W10E2	-1.7,	1,	20	W74E1	0,	-2,	40	1	5	1	0	0
66	W11E2	-1.7,	1,	40	W75E1	0,	-2,	56	1	5	1	0	0
67	W82E1	-1.7,	1,	56	W76E1	0,	-2,	80	1	5	1	0	0
68	W13E2	-1.7,	1,	80	W77E1	0,	-2,	100	1	5	1	0	0
69	W14E2	-1.7,	1,	100	W78E1	0,	-2,	114	1	5	1	0	0
70	W98E2	-1.7,	1,	114	W79E1	0,	-2,	145	1	5	1	0	0
71	W16E2	-1.7,	1,	145	W80E1	0,	-2,	160	1	5	1	0	0
72	W17E2	-1.7,	1,	160	W87E1	0,	-2,	185	1	5	1	0	0
73	W19E2	0,	-2,	20	W2E2	1.7,	1,	40	1	5	1	0	0
74	W20E2	0,	-2,	40	W83E1	1.7,	1,	56	1	5	1	0	0
75	W81E1	0,	-2,	56	W4E2	1.7,	1,	80	1	5	1	0	0
76	W22E2	0,	-2,	80	W5E2	1.7,	1,	100	1	5	1	0	0
77	W23E2	0,	-2,	100	W96E2	1.7,	1,	114	1	5	1	0	0
78	W91E2	0,	-2,	114	W7E2	1.7,	1,	145	1	5	1	0	0

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WIRE MODEL CONTINUED

79	W25E2	0,	-2,	145	W8E2	1.7,	1,	160	1	5	1	0	0
80	W27E2	0,	-2,	160	W88E1	1.7,	1,	185	1	5	1	0	0
81	W21E2	0,	-2,	56	GND	0,	-110,	0	0.25	21	1	0	0
82	W12E2	-1.7,	1,	56	GND	-95,	55,	0	0.25	21	1	0	0
83	W3E2	1.7,	1,	56	GND	95,	55,	0	0.25	21	1	0	0
84	W91E1	1.7,	-2,	114	GND	0,	-110,	0	0.25	21	1	0	0
85	W98E1	-0.85,	2.5,	114	GND	-95,	55,	0	0.25	21	1	0	0
86	W96E1	0.85,	2.5,	114	GND	95,	55,	0	0.25	21	1	0	0
87	W100E1	0,	-2,	185	GND	0,	-142,	0	0.25	21	1	0	0
88	W9E2	1.7,	1,	185	GND	123,	71,	0	0.25	21	1	0	0
89	W18E2	-1.7,	1,	185	GND	-123,	71,	0	0.25	21	1	0	0
90	W35E2	0,	1,	145		0,	2,	145	1	2	1	0	0
91	W84E1	1.7,	-2,	114	W92E2	0,	-2,	114	1	1	1	0	0
92	W93E1	-1.7,	-2,	114	W24E2	0,	-2,	114	1	1	1	0	0
93	W92E1	-1.7,	-2,	114	GND	0,	-110,	0	0.25	11	1	0	0
94	W97E1	2.55,	-0.5,	114	GND	95,	55,	0	0.25	11	1	0	0
95	W99E1	-2.55,	-0.5,	114	GND	-95,	55,	0	0.25	11	1	0	0
96	W86E1	0.85,	2.5,	114	W97E2	1.7,	1,	114	1	1	1	0	0
97	W94E1	2.55,	-0.5,	114	W6E2	1.7,	1,	114	1	1	1	0	0
98	W85E1	-0.85,	2.5,	114	W99E2	-1.7,	1,	114	0.25	1	1	0	0
99	W95E1	-2.55,	-0.5,	114	W15E2	-1.7,	1,	114	0.25	1	1	0	0
100	W28E2	0,	-2,	185	W101E1	-93,	-55,	47	0.25	11	1	0	0
101	W100E2	-93,	-55,	47	W102E2	-2.6,	-1.5,	15	0.25	11	1	0	0
102	GND	-2.6,	-1.5,	0	W101E2	-2.6,	-1.5,	15	0.25	3	1	0	0

Report on

WRCR

1700 KHZ
10 KW DAY 1 KW NIGHT
HAVERSTRAW, NEW YORK

William Weeks
Hungry Wolf Electronics
Milton, NY
June 7, 2021

I visited the transmitter site of WRCR, Haverstraw, NY, on June 7, 2021.

The tower is guyed, grounded, and appears to match the stated height of 56.4 Meters. The guy wires are not broken up with insulators. The only ground system is of ground rods driven in near the tower base and at each guy anchor.

The RF feed to the tower appears to match the dimensions given in the application for construction permit file #BP-20200813AAK. No physical discrepancies between the system as installed and the model were noted.

The impedance was measured at the output of the antenna matching unit, at the point where base current is measured. The impedance was measured with Array Solutions VNA2180 SN 5036, calibrated on frequency for this measurement with standard loads.

The measured impedance was 68 -j138.

The resulting current for 10 KW is 12.1 amperes, and for 1 KW it is 3.8 amperes.

These measurements were made by the undersigned, and are believed to be true and complete.

William Weeks
June 7, 2021