

EDINGER ASSOCIATES PLLC

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April 6, 2022

VIA EMAIL (audiofilings@fcc.gov)

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

Re: Form 302 Direct Measurement Application
WDRC(AM), Hartford, CT (Fac. ID 7711)

Dear Ms. Dortch:

On behalf of Red Wolf Broadcasting Corporation, licensee of the above referenced station, we hereby submit the attached Form 302 direct measurement application. Please contact undersigned counsel with questions.

Sincerely,

/s/

Scott Woodworth

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)

Red Wolf Broadcasting Corporation

MAILING ADDRESS (Line 1) (Maximum 35 characters)

758 Colonel Ledyard Highway

MAILING ADDRESS (Line 2) (Maximum 35 characters)

P.O. Box 357

CITY

Ledyard

STATE OR COUNTRY (if foreign address)

CT

ZIP CODE

06339

TELEPHONE NUMBER (include area code)

860-464-1065

CALL LETTERS

WDRC (AM)

OTHER FCC IDENTIFIER (If applicable)

7711

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

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)	
FEE TYPE CODE	FEE MULTIPLE	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
	0 0 0 1	\$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION	FOR FCC USE ONLY
\$	

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Red Wolf Broadcasting Corporation		
MAILING ADDRESS P.O. Box 357		
CITY Ledyard	STATE CT	ZIP CODE 06339

2. This application is for:

- Commercial Noncommercial
 AM Directional AM Non-Directional

Call letters WDRC (AM)	Community of License Hartford	Construction Permit File No.	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit
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3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

Yes No

If No, explain in an Exhibit.

Exhibit No.

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

Yes No

If No, state exceptions in an Exhibit.

Exhibit No.

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

If Yes, explain in an Exhibit.

Exhibit No.

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

If No, explain in an Exhibit.

Does not apply

Exhibit No.

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

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.

Exhibit No.

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).

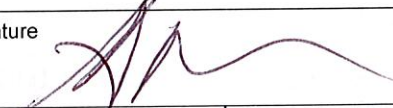
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

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 Scott Barron	Signature 	
Title Chief Engineer	Date 9/6/22	Telephone Number 860-243-1115

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

Red Wolf Broadcasting Corporation

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

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	
WDRC		1360	Unlimited	Night 5.0	Day 5.0
2. Station location					
State Connecticut			City or Town Hartford		
3. Transmitter location					
State	County	City or Town	Street address (or other identification)		
CT	Hartford	Bloomfield	869 Blue Hills Avenue		
4. Main studio location					
State	County	City or Town	Street address (or other identification)		
CT	Hartford	Bloomfield	869 Blue Hills Avenue		
5. Remote control point location (specify only if authorized directional antenna)					
State	County	City or Town	Street address (or other identification)		
CT	Hartford	Bloomfield	869 Blue Hills Avenue		

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

Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.
1

8. Operating constants:						
RF common point or antenna current (in amperes) without modulation for night system 8.54			RF common point or antenna current (in amperes) without modulation for day system 6.1			
Measured antenna or common point resistance (in ohms) at operating frequency			Measured antenna or common point reactance (in ohms) at operating frequency			
Night	Day		Night	Day		
74	135		-j14	-j114		
Antenna indications for directional operation						
Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
East (ASR 1045019)	0	N/A	1.000	N/A	4.5	N/A
West (ASR 1045020)	48.0	N/A	0.600	N/A	2.7	N/A
Manufacturer and type of antenna monitor: Potomac Instruments 1901-2						

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 Base insulated lattice	Overall height in meters of radiator above base insulator, or above base, if grounded. 91.8	Overall height in meters above ground (without obstruction lighting) 93.9	Overall height in meters above ground (include obstruction lighting) 94.8	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No.
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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 ° 48 ' 47 "	West Longitude 72 ° 41 ' 48 "
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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.
2

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.
3

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

N/A

(See Exhibit #4 for partial proof-of-performance measurement results.)

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

Placement of (1) Scala PR-950 dish for STL of WMRQ (WQKS912)

and (2) Scala PR-950 dish for STL of WMRQ (WRJM726) both on the East Tower tripod leg.

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) Scott Baron	Signature (check appropriate box below) 
Address (include ZIP Code) 869 Blue Hills Ave. Bloomfield CT 06002	Date 9/6/22
	Telephone No. (Include Area Code) 860-243-1115

Technical Director

Registered Professional Engineer

Chief Operator

Technical Consultant

Other (specify)

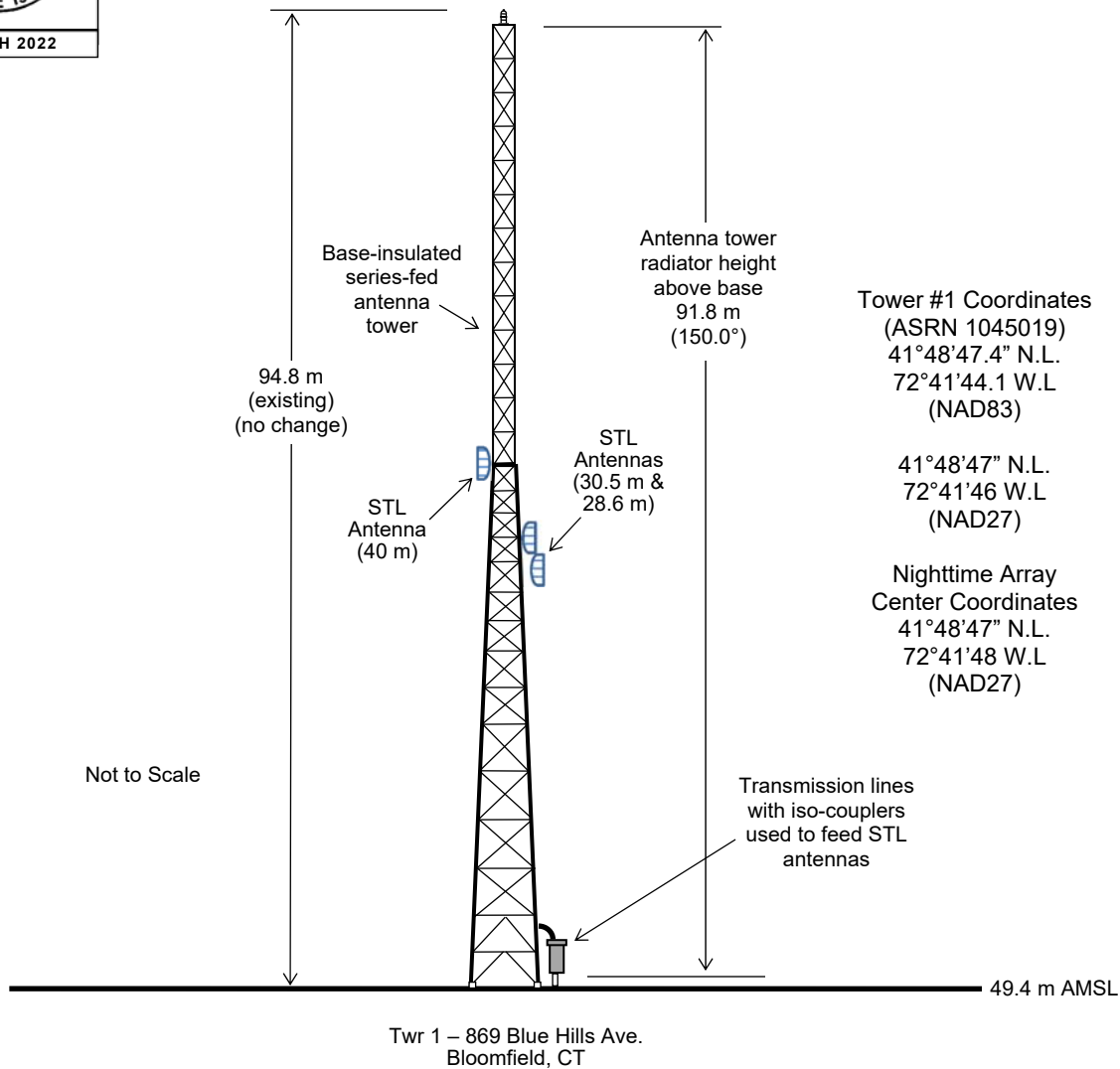
EXHIBIT # 1

Red Wolf Broadcasting Corporation – WDRC

DESCRIPTION OF SAMPLING SYSTEM

The sampling system consists of two electrically equal, phase stabilized $\frac{1}{2}$ ", 50 Ohm coaxial cables connected to Delta Toroidal Current Transformers located at the input to each tower and connected to a Potomac Instruments 1901-2 Antenna Monitor in the transmitter building.

The Sampling System has been previously approved under the station's license, and is on file with the current station license.



Antenna Structure Registration No. 1045019

SKETCH OF TOWER #1 WITH APPURTENANCES

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

EXHIBIT # 3

RED WOLF BROADCASTING CORPORATION

DESCRIPTION OF GROUND SYSTEM

Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 68.60 meters in length except where intersection radials are shortened and bonded to a transverse copper strap midway between adjacent towers.

This information is on file with the present station license.

ANTENNA PARTIAL PROOF-OF-PERFORMANCE MEASUREMENTS
 AM BROADCAST STATION WDRC
 HARTFORD, CONNECTICUT
 1360 kHz, 5 kW, U, DA-N

WDRC 261° Radial							
Point Number	Distance		1970 Proof DA Field		Mar-2022 DA Field		Mar-2022/1970 Ratio
	(miles)	(km)	Date/Time	(mV/m)	Date/Time**	(mV/m)	Linear
25	1.80	2.90	*	40	03-16-22/1102	4.5	0.1125
29	2.80	4.51	*	6	03-16-22/1108	5.1	0.8500
32 (MP)	3.72	5.99	*	5.9	03-16-22/1119	5.9	1.0000
34	5.50	8.85	*	3.6	03-16-22/1201	1.59	0.4417
36	7.30	11.75	*	1.4	03-16-22/1211	0.7	0.5000
38	8.60	13.84	*	0.44	03-16-22/1219	0.48	1.0909
39	9.40	15.13	*	0.37	03-16-22/1226	0.29	0.7838
40	10.30	16.58	*	0.21	03-16-22/1230	0.14	0.6667
Average of Ratio:							0.6807
1970 DA Analyzed Field Strength (mV/m):							83.6
2022 DA Analyzed Field Strength (mV/m):							56.9

*See 1970 Proof of Performance, FCC File No. BR-139 (with associated filings) as referenced in FCC File No. BZ-20130517AFI, the most recent partial proof.

** Measurements by Mr. John Ramsey using Potomac Instruments model FIM-41 field strength meter, serial no. 541.

136.79

ANTENNA PARTIAL PROOF-OF-PERFORMANCE MEASUREMENTS
AM BROADCAST STATION WDRC
HARTFORD, CONNECTICUT
1360 kHz, 5 kW, U, DA-N

WDRC 287° Radial							
Point Number	Distance		1970 Proof DA Field		Mar-2022 DA Field		Mar-2022/1970 Ratio
	(miles)	(km)	Date/Time	(mV/m)	Date/Time**	(mV/m)	Linear
28	2.22	3.57	*	4	03-16-22/1430	9	2.2500
31 (MP)	3.65	5.87	*	4.7	03-16-22/1419	1.8	0.3830
32	4.08	6.57	*	3.6	03-16-22/1413	2.7	0.7500
33	4.20	6.76	*	3.6	03-16-22/1410	1.7	0.4722
35	6.68	10.75	*	0.35	03-16-22/1359	0.27	0.7714
36	7.60	12.23	*	0.5	03-16-22/1355	0.135	0.2700
38	10.25	16.50	*	0.5	03-16-22/1348	0.09	0.1800
39	10.55	16.98	*	0.3	03-23-2022/1257	0.17	0.5667
Average of Ratio:							0.7054
1970 DA Analyzed Field Strength (mV/m):							59.7
2022 DA Analyzed Field Strength (mV/m):							42.1

*See 1970 Proof of Performance, FCC File No. BR-139 (with associated filings) as referenced in FCC File No. BZ-20130517AFI, the most recent partial proof.

** Measurements by Mr. John Ramsey using Potomac Instruments model FIM-41 field strength meter, serial no. 541.

136.79