

ENGINEERING STATEMENT
WOLF Radio, Inc.
July, 2023

WOLF Radio, Inc. is the licensee of FM translator W260DT and holds a construction permit (“CP”) for modified facilities to W259DJ (LMS0000127008).

The CP states as Special Operating Condition 1 that as the CP authorizes the mounting of the antenna on the non-directional tower of AM station WOSW(AM), Fulton, NY (Fac. ID 52370), and if the resistance of the AM antenna has changed by more than 2 percent from the licensed value, the permittee must submit confirmation of filing an application for the station to return to direct power measurement.

Measurements performed on the AM antenna have shown that the resistance has changed by more than 2 percent, and the required Direct measurement Application (attached) has been filed by commonly-owned Foxfur Communications, LLC, licensee of WOSW(AM).

Special Operating Condition 2 requires that this instant License Application must be on file prior to commencing program test operations. The permittee affirms that it has not commenced program test operations prior to the filing of this application.

Foxfur Communications, LLC
401 W. Kirkpatrick St.
Syracuse, NY 13204
315-472-0222

July 20, 2023

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

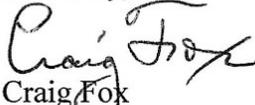
Re: WOSW(AM), Fulton, NY (Fac. ID 52370)
Form 302-AM Application for Direct Measurement of Power (form filing via email)

Dear Ms. Dortch,

Transmitted herewith, on behalf of Foxfur Communications, LLC (FRN: 0018750067), licensee of WOSW(AM), Fulton, NY (Fac. ID 52370), is an FCC Form 302-AM Application (Direct Measurement of Power) submitted via email to: audiofilings@fcc.gov.

It is noted that there is no filing fee required for this type of application.

If there are any questions regarding this matter, please do not hesitate to contact the undersigned at CraigF199@aol.com (315) 468-0908, or our attorney David D. Oxenford at DOxenford@wbklaw.com (202) 783-4141.

Sincerely,

Craig Fox
Managing Member

Attachment – Form 302-AM

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) Foxfur Communications, LLC			
MAILING ADDRESS (Line 1) (Maximum 35 characters) 401 W. Kirkpatrick St.			
MAILING ADDRESS (Line 2) (Maximum 35 characters)			
CITY Syracuse	STATE OR COUNTRY (if foreign address) NY		ZIP CODE 13204
TELEPHONE NUMBER (include area code) 315-468-0908	CALL LETTERS WOLF-FM	OTHER FCC IDENTIFIER (If applicable) 7716	
2. A. Is a fee submitted with this application?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. If No, indicate reason for fee exemption (see 47 C.F.R. Section			
<input type="checkbox"/> Governmental Entity <input type="checkbox"/> Noncommercial educational licensee <input checked="" type="checkbox"/> Other (Please explain):			
C. If Yes, provide the following information:			Direct Measurement of Power
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)	
	0 0 0 1	\$	FOR FCC USE ONLY
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 Foxfur Communications, LLC		
MAILING ADDRESS 401 W. Kirkpatrick St.		
CITY Syracuse	STATE NY	ZIP CODE 13204

2. This application is for:

- Commercial
 Noncommercial
 AM Directional
 AM Non-Directional

Call letters WOSW	Community of License Fulton, NY	Construction Permit File No. n/a	Modification of Construction Permit File No(s). n/a	Expiration Date of Last Construction Permit n/a
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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.
n/a

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.
n/a

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).

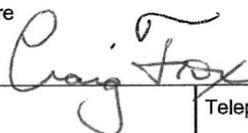
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

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 Craig Fox	Signature 	
Title Managing Member	Date 07/19/2023	Telephone Number 315-468-0908

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 Foxfur Communications, LLC

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	
WOSW	n/a	1300	unlimited	Night 0.04	Day 1.0
2. Station location					
State New York			City or Town Fulton		
3. Transmitter location					
State NY	County Oswego	City or Town Granby		Street address (or other identification) 174 Lakeshore Rd.	
4. Main studio location					
State NY	County Onondaga	City or Town Syracuse		Street address (or other identification) 401 W. Kirkpatrick St.	
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
- 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 0.35			RF common point or antenna current (in amperes) without modulation for day system 1.74			
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	Night	Day	
331	331	+371		+371		
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
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.
uniform cross-section	93.0	93.9	94.8	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Exhibit No. n/a</div>

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	43	°	17	'	41	"	West Longitude	76	°	26	'	34	"
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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.
Figure 1

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

Exhibit No.
Engineering Exhibit

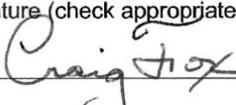
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

This is an application for direct measurement of power and there is no change to the structure itself.

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

Installation of antenna, transmission line, and isocoupler for W259DJ (formerly W260DT).

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) Craig Fox	Signature (check appropriate box below) 
Address (include ZIP Code) 401 W. Kirkpatrick St. Syracuse, NY 13204	Date 7/19/2023
	Telephone No. (Include Area Code) 315-468-0908

- | | |
|--|---|
| <input checked="" type="checkbox"/> Technical Director | <input type="checkbox"/> Registered Professional Engineer |
| <input type="checkbox"/> Chief Operator | <input type="checkbox"/> Technical Consultant |
| <input type="checkbox"/> Other (specify) | |

ENGINEERING STATEMENT
Foxfur Communications, LLC
July, 2023

Foxfur Communications, LLC (“Foxfur”) is the licensee of WOSW(AM), Fulton, NY (Fac. ID 52370). The station is filing this application in support of direct power measurement in relation to the Special Operating condition in the construction permit issued for FM translator station W260DT (Fac. ID 93092) in its conversion to W259DJ (LMS0000127008) to relocate to the tower utilized by WOSW(AM). The installation of the FM translator antenna system (antenna, transmission line, isocoupler) has been completed. Figure 1 is a vertical sketch of the tower showing the location of the FM antenna, as installed, and other pertinent characteristics.

This application and engineering exhibit demonstrate that the necessary measurements and adjustments of the WOSW(AM) antenna have been performed to ensure proper operation.

The height of the WOSW(AM) above the base insulator is 93.0 m. (305 ft.) and is an electrical length of 145.1 degrees at the station’s operating frequency of 1300 kHz with an inverse field of 344.4 mv/m/kW @ 1 km. Including obstruction lighting, the overall height of the tower is 94.8 m. (311 ft.) and has antenna structure registration number (ASR) 1007177.

Antenna impedance measurements were performed directly before the antenna with the antenna tuning unit disconnected, and at the point where the antenna current meter is normally connected. The test equipment setup consisted of a Ramsey AM-25 synthesized oscillator with 10 kHz steps, a General Radio 1606-A bridge and a Potomac FIM-41 field strength meter as a detector for null identification from the impedance

bridge. Non-inductive one-percent tolerance resistors were used as references for determining the accuracy of the impedance bridge resistance measurements. The impedance measurements for the tower were performed with the bridge connected directly to the AM radiator with the new FM antenna and transmission line installed, and all isocouplers connected with their cases bonded to the ground system utilizing two-inch wide copper strap. The output of the ATU was disconnected for these measurements.

ANTENNA IMPEDANCE MEASUREMENTS 7/17/23

Frequency (kHz)	Resistance (ohms)	Reactance (j ohms)
1270	415	+363
1280	384	+368
1290	359	+371
1300*	330	+371
1310	310	+368
1320	289	+366
1330	261	+362

* = WOSW(AM) carrier frequency

With an antenna resistance of 330 ohms at the carrier frequency, the RF base current meter at the output of the antenna tuning unit, without modulation, reads 1.74 amperes with 1,000 watts of power for daytime operation and 0.35 amperes with 40 watts of power for nighttime operation.

With the ATU reconnected and properly readjusted to provide a match of 50 ohms +j0, input impedance measurements were performed to determine the variation of impedance over the audio pass-band within +/- 10 kHz of the carrier frequency.

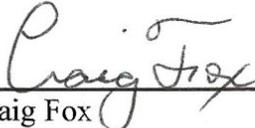
INPUT TO ANTENNA TUNING UNIT

Frequency (kHz)	Resistance (ohms)	Reactance (j ohms)
1290	50.5	+5.4
1300*	50.0	0
1310	48.1	-6.9

Measurements at the input of the ATU show a very smooth variation over the 20 kHz bandwidth.

In summary, the new parameters for direct measurement of power for WOSW(AM) using the formula: $P = I^2R$ where P is the antenna input power in watts, I is the antenna current in amperes and R is the antenna resistance in ohms is as follows:

	<u>Power (watts)</u>	<u>Current (amperes)</u>	<u>Resistance (ohms)</u>
<u>Daytime:</u>	1,000	1.74	330
<u>Nighttime:</u>	40	0.35	330



 Craig Fox
 Technical Director
 July 18, 2023

Not Drawn to Scale

(supporting guy wires not shown)

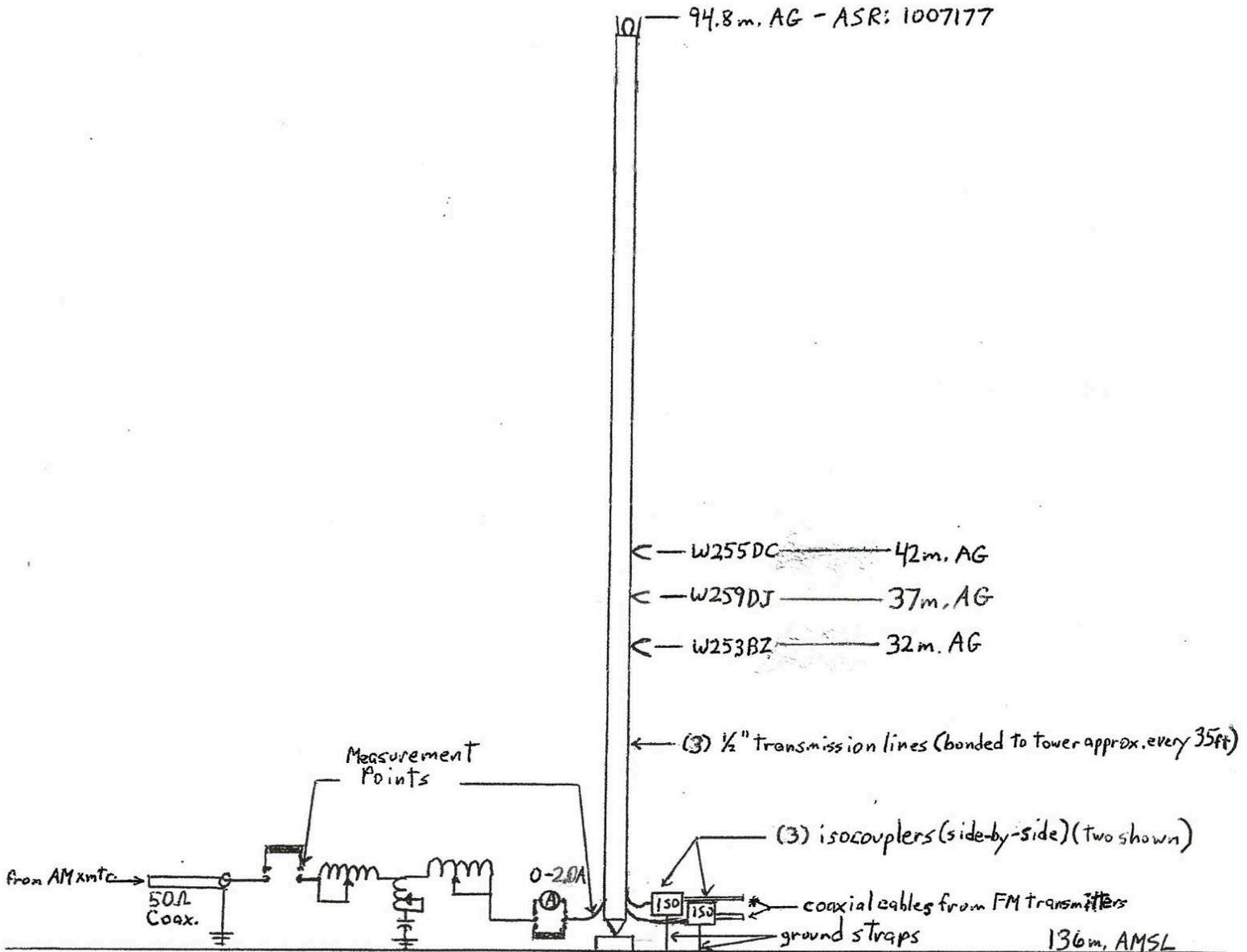


FIGURE 1
Vertical Sketch
WOSW(AM), Fulton, NY
Foxfur Communications, LLC
July, 2023