

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Five Forty Broadcasting Company LLC		
MAILING ADDRESS PO Box 1044		
CITY Sylva	STATE NC	ZIP CODE 28779

2. This application is for:

☐ Commercial
 ☐ Noncommercial
☐ AM Directional
 ☒ AM Non-Directional

Call letters WRGC	Community of License Sylva	Construction Permit File No. BP-20190130ABH	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

☐ Does not apply

If No, explain in an Exhibit.

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 Roy W. Burnette	Signature 	
Title Managing Member	Date 02/25/2022	Telephone Number 828-586-2221

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

Five Forty Broadcasting Company LLC

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)



Station License



Direct Measurement of Power

1. Facilities authorized in construction permit					
Call Sign WRGC	File No. of Construction Permit (if applicable) BP-20190130ABH	Frequency (kHz) 540	Hours of Operation unlimited	Power in kilowatts	
				Night 190 Watts	Day 5000 Watts
2. Station location					
State North Carolina			City or Town Sylva		
3. Transmitter location					
State NC	County Jackson	City or Town Sylva	Street address (or other identification) 930 Rufus Robinson Road		
4. Main studio location					
State NC	County Jackson	City or Town Sylva	Street address (or other identification) 31 Citrus Drive		
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 4.4 amps			RF common point or antenna current (in amperes) without modulation for day system 22.7 amps		
Measured antenna or common point resistance (in ohms) at operating frequency Night 9.7 ohms Day 9.7 ohms			Measured antenna or common point reactance (in ohms) at operating frequency Night - j 134 Day - j 134		
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
NA					
Manufacturer and type of antenna monitor:					

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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.
Series Fed	59.74	60.6	60.6	Exhibit No. 13

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	35	°	23	'	31	"	West Longitude	83	°	14	'	56	"
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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.

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

Exhibit No.

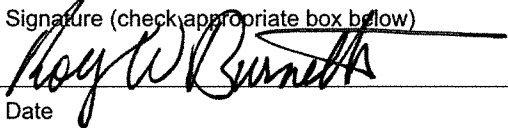
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

NA

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

NA

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)		
Roy Burnette			
Address (include ZIP Code)	Date		
928 Rufus Robinson Road	02-25-2022		
Sylva, NC 28779	Telephone No. (Include Area Code)		
	828-586-2221		

☐

Technical Director

☐

Registered Professional Engineer

☒

Chief Operator

☐

Technical Consultant

☐

Other (specify)

WRGC-AM – 540khz – Sylva NC

Saturday 10/23/21

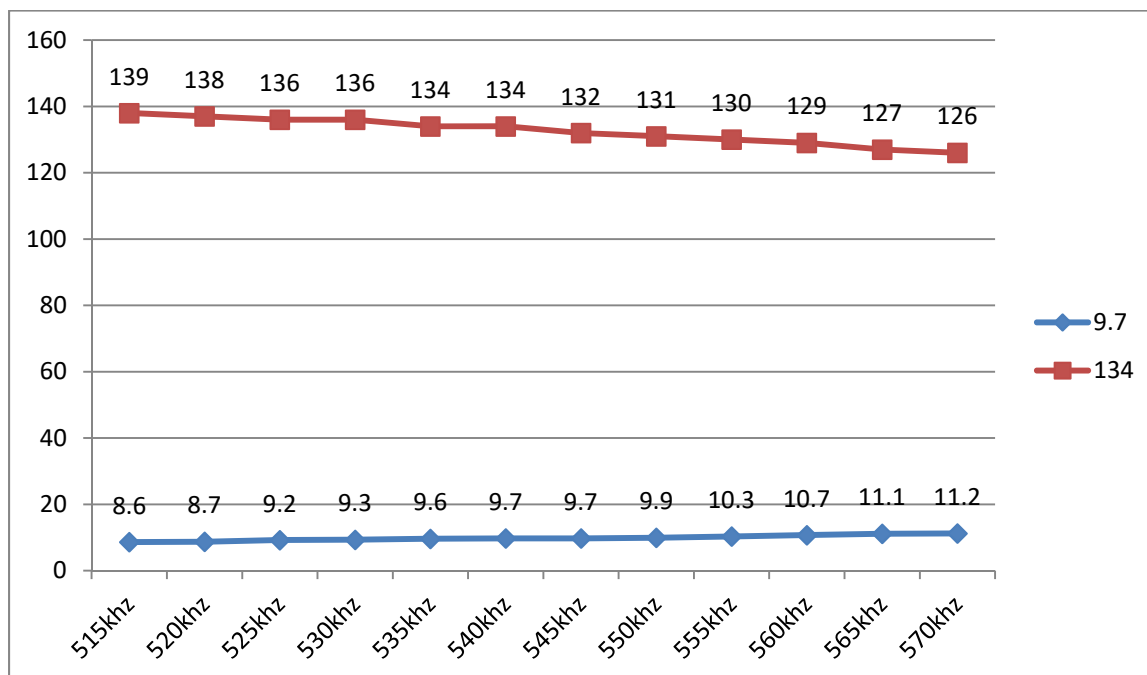
Test Equipment Used:

Oscillator – Potomac SD-31/RX-31 – SN#715

Bridge – GR1606 – SN#1224

Detector – Potomac FIM41 – SN#2167

Frequency	Resistance Component	Indicated Reactance	Corrected Reactance
510khz	R 8.3	-j 257	-j 139
515khz	R 8.6	-j 255	-j 138
520khz	R 8.7	-j 254	-j 137
525khz	R 9.2	-j252	-j 136
530khz	R 9.3	-j251	-j 136
535khz	R9.6	-j 249	-j 134
540khz	R 9.7	-j 248	-j 134
545khz	R 9.7	-j 245	-j 132
550khz	R 9.9	-j 243	-j 131
555khz	R 10.3	-j 241	-j 130
560khz	R 10.7	-j 238	-j 129
565khz	R 11.1	-j 236	-j 127
570khz	R 11.2	-j 234	-j 126



Resulting power levels

Day - 105% 5.25kW = 23.3A

100% 5kW = 22.7A

90% 4.5kW = 21.5A

Night – 105% 200W = 4.5A

100% 190W = 4.4A

90% 171W = 4.2A

Notes:

OIB @ antenna terminal - $10.0R + j248$

Bridge @ input terminal

535 $28R - 5j$

540 $50R 0$

545 $46.5R + 20j$

550 $23.5R + 25j$

Network tuning notes: