

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)

Triangle Broadcast Associates, LLC

MAILING ADDRESS (Line 1) (Maximum 35 characters) 3012 Highwoods Blvd.

MAILING ADDRESS (Line 2) (Maximum 35 characters) Suite 200

CITY Raleigh

STATE OR COUNTRY (if foreign address)
NC

ZIP CODE 27604

TELEPHONE NUMBER (include area code) 919 790-9392

CALL LETTERS WQDR

OTHER FCC IDENTIFIER (If applicable)
61698

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

Direct Measurement of Power

☐ 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			
0	0	0	1

(C)
FEE DUE FOR FEE TYPE CODE IN COLUMN (A)
\$

FOR FCC USE ONLY

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)			
0	0	0	1

(C)
\$

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
\$

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SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Triangle Broadcast Associates, LLC		
MAILING ADDRESS 3012 Highwoods Blvd, Suite 200		
CITY Raleigh	STATE NC	ZIP CODE 27604

2. This application is for:

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

Call letters WQDR	Community of License Raleigh, NC	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

☐ 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 Donald W. Curtis	Signature 	
Title President	Date 2/10/2023	Telephone Number 919 790-9392

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

Triangle Broadcast Associates, 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	
				Night	Day
WQDR		570	Unlimited	0.04	1.0

2. Station location

State	City or Town
North Carolina	Raleigh

3. Transmitter location

State	County	City or Town	Street address (or other identification)
NC	Wake	Cary	833 East Chatham Street

4. Main studio location

State	County	City or Town	Street address (or other identification)
NC	Wake	Raleigh	3012 Highwoods Blvd

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.
N/A

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system	1.51	RF common point or antenna current (in amperes) without modulation for day system	7.56
Measured antenna or common point resistance (in ohms) at operating frequency		Measured antenna or common point reactance (in ohms) at operating frequency	
Night	17.5	Night	+j1.1
Day	17.5	Day	+j1.1

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
N/A						

Manufacturer and type of antenna monitor:

N/A

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 tapered, self-supporting, base insulated	Overall height in meters of radiator above base insulator, or above base, if grounded. 112.8	Overall height in meters above ground (without obstruction lighting) 114.0	Overall height in meters above ground (include obstruction lighting) 114.0	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No. N/A
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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	35 °	47 '	35 "	West Longitude	78 °	45 '	41 "
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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.
N/A

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

Exhibit No.
On File

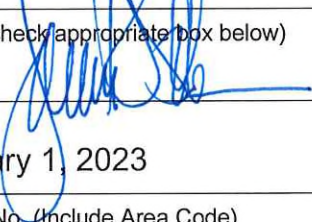
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

N/A

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

Installation of triplex filters required for collocation of station WKIX.

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) James D. Sadler	Signature (check appropriate box below) 
Address (include ZIP Code) Carl T. Jones Corporation 7901 Yarnwood Court Springfield, VA 22153	Date February 1, 2023 Telephone No. (include Area Code) (703) 569-7704

☐ Technical Director

☐ Registered Professional Engineer

☐ Chief Operator

☒ Technical Consultant

☐ Other (specify)



**STATEMENT OF JAMES D. SADLER
IN SUPPORT OF AN APPLICATION FOR
DIRECT MEASUREMENT OF POWER
STATION WQDR – RALEIGH, NORTH CAROLINA
570 kHz – 1 kW-D, 0.04 kW-N, U, ND
FACILITY ID: 61698**

Applicant: Triangle Broadcasting Associates, LLC

I am a Technical Consultant, an employee in the firm of Carl T. Jones Corporation with offices located in Springfield, VA. My education and experience are a matter of record with the Federal Communications Commission.

1.0 GENERAL

This office has been authorized by Triangle Broadcasting Associates, LLC, licensee of AM Broadcast Station WQDR, Raleigh, North Carolina, to prepare this engineering statement, FCC Form 302-AM, Section III, and the associated figure in support of an Application to Return to Direct Measurement of Power. FCC Construction Permit, BP-20200304AAC authorizes the relocation of the Station WKIX to the diplexed transmitter site of Station WQDR and Station WPTF. A special condition on the construction permit requires, in part, that Station WQDR measure antenna resistance and submit FCC Form 302 as an application notifying the return to direct measurement of power.

Implementation of the WKIX Construction Permit at the WQDR and WPTF diplexed transmitter site included the installation of filter and impedance matching

circuits at the base of tower #2(N) in the WPTF nighttime array to isolate the transmission paths in order to minimize interaction between the stations and to provide proper impedance matching for optimal system performance. Station WQDR operates non-directionally using tower#1(S) in the WPTF nighttime array. Filters and detuning circuits were installed on tower #1(S) and tower #3(E). A schematic diagram of the complete impedance matching and filtering system for the triplexed operation is contained in Figure 1.

2.0 IMPEDANCE AND CURRENT MEASUREMENTS

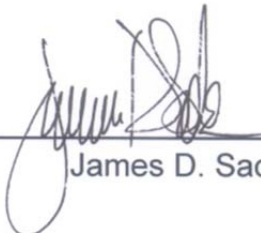
The WQDR operating power was established at the output to the Antenna Tuning Unit (“ATU”) in the following manner. After completion of the installation of the new triplexing and impedance matching equipment and the adjustment of the system for optimal performance, the WQDR ATU output impedance was measured by the undersigned using a Delta Electronics, Model OIB-3, operating impedance bridge. The measured ATU output impedance at the WQDR operating frequency of 570 kHz was found to be $Z = 17.5 + j 1.1$ Ohms. The location of the impedance measurement is immediately adjacent to the Delta Electronics toroidal ammeter. Based on the measured ATU output resistance, the transmitter was adjusted for a current reading on the ATU output current meter of 7.56 Amperes, corresponding to the authorized daytime power of 5 kW. For nighttime operation, the transmitter was adjusted for a current reading of 1.51 Amperes, corresponding to the authorized nighttime power of 0.4 kW.

3.0 SUMMARY

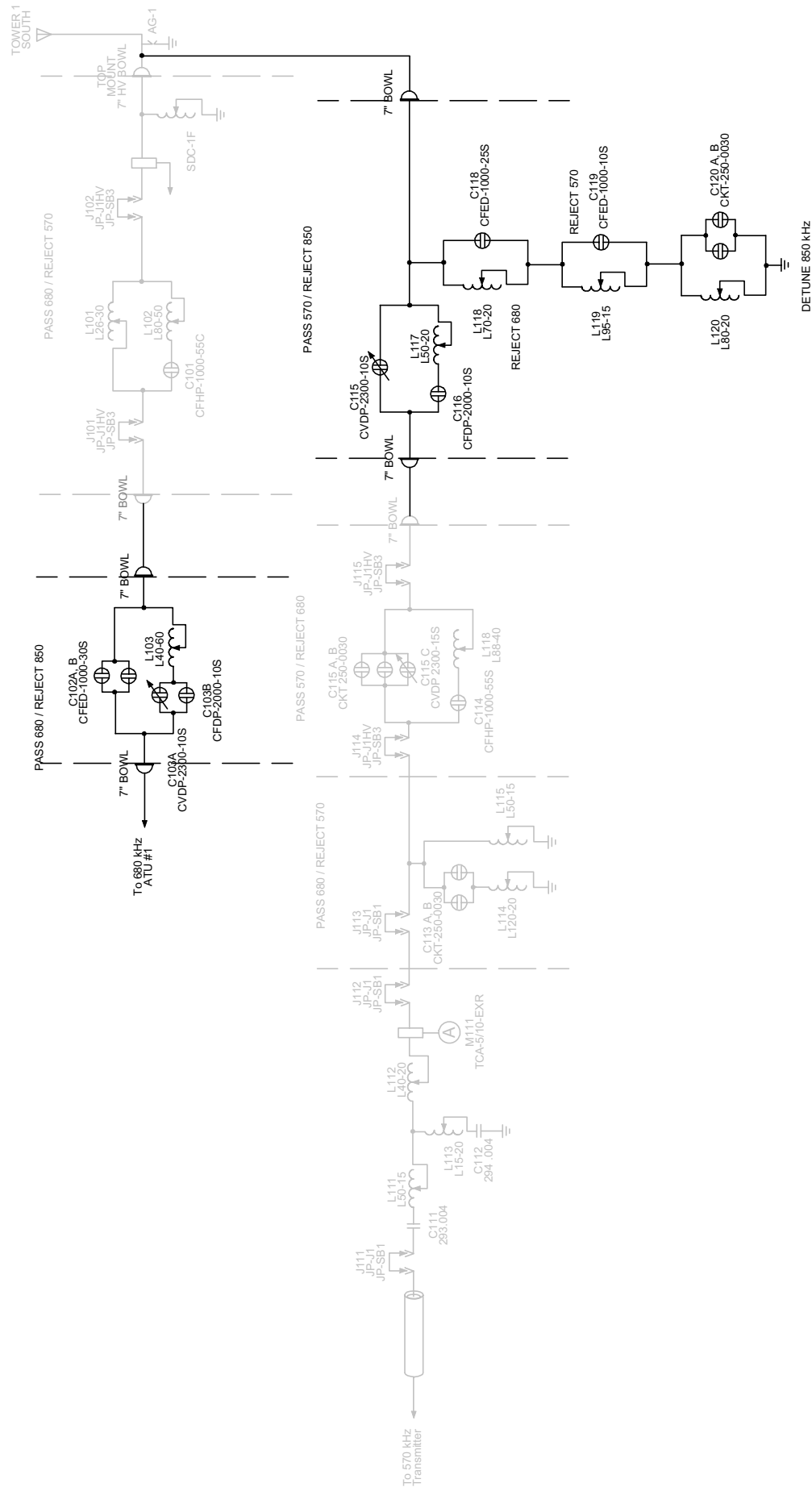
It is submitted that all construction and adjustments associated with FCC Construction Permit BP-20200304AAC have been completed with no material adverse impact to WQDR. Station WQDR should be permitted to return to direct measurement of power as determined by the base current and base impedance contained herein and on FCC Form 302-AM and a superseding license should be granted reflecting the new base current and base impedance.

This engineering statement, FCC Form 302-AM, Section III, and the associated figure were prepared by the undersigned or under the undersigned's direct supervision and the information herein is believed to be true and correct.

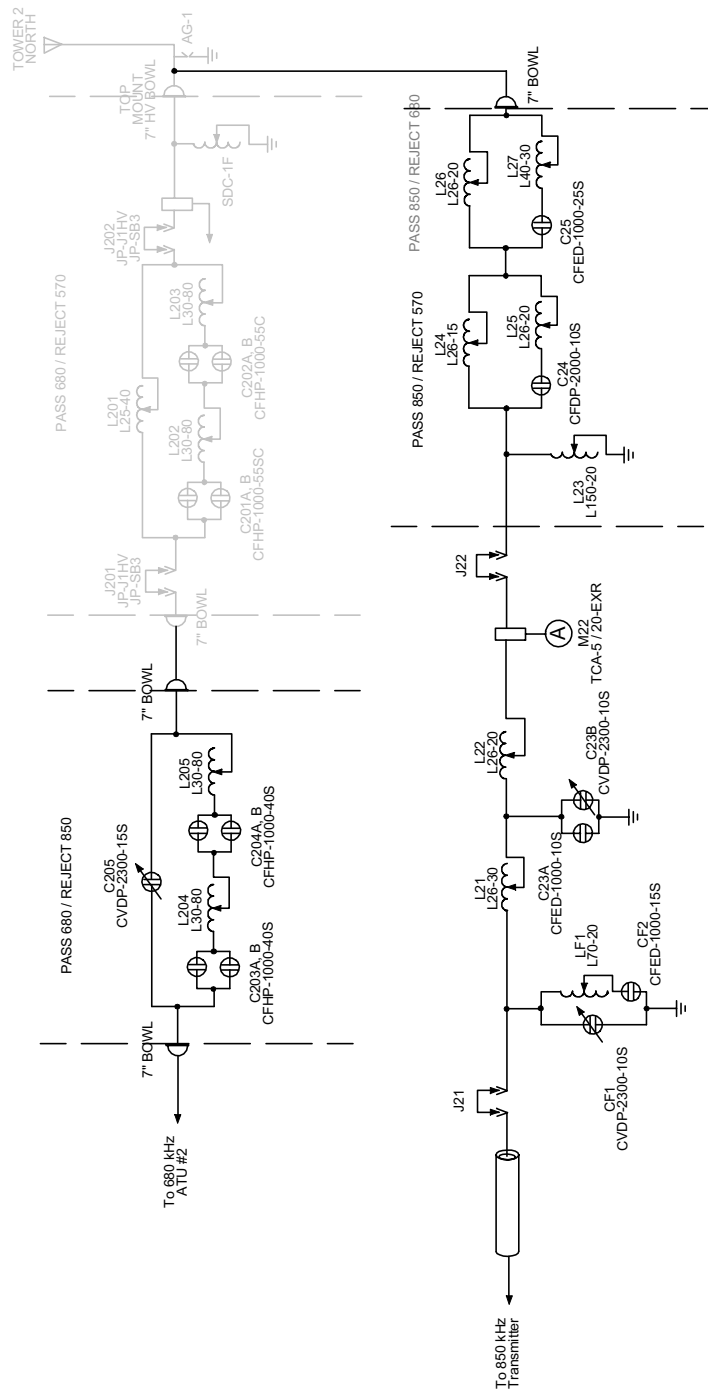
Dated: February 1, 2023



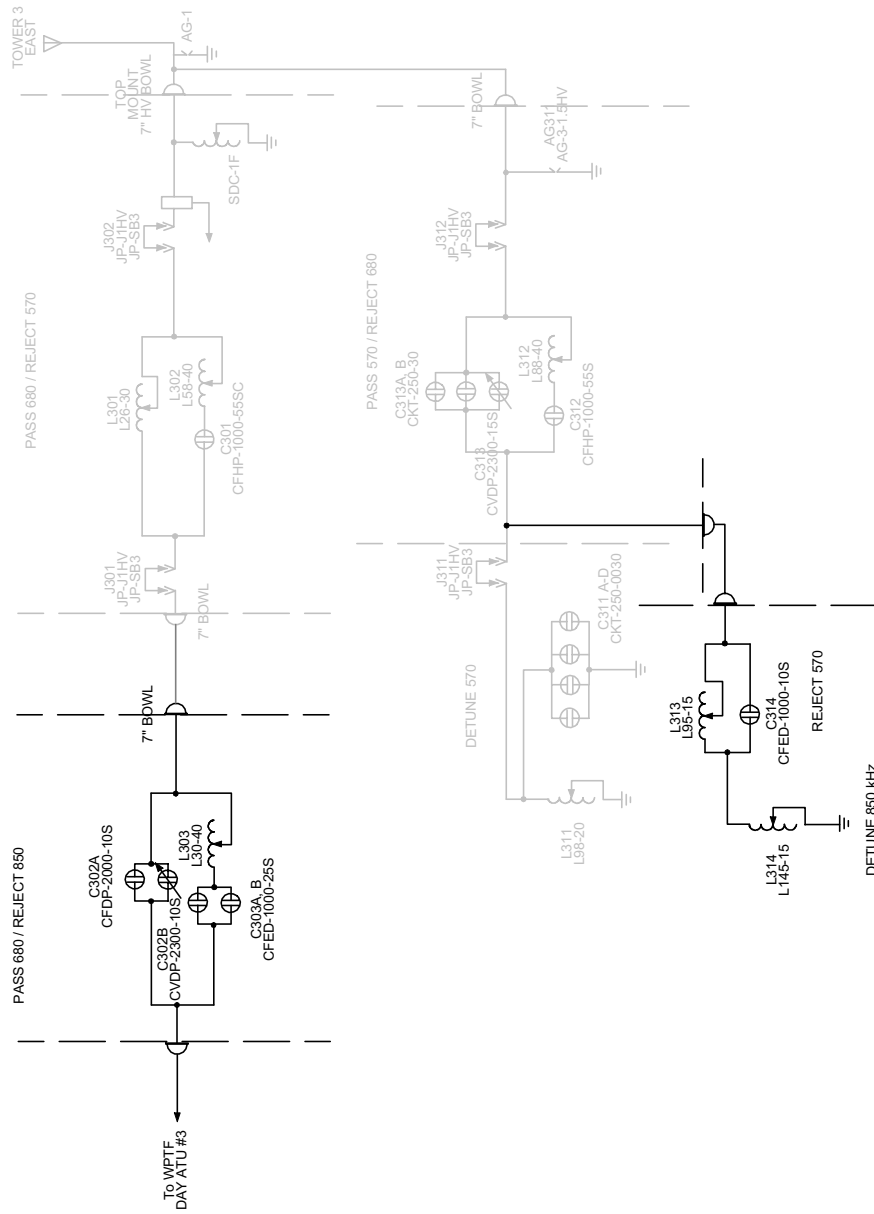
James D. Sadler



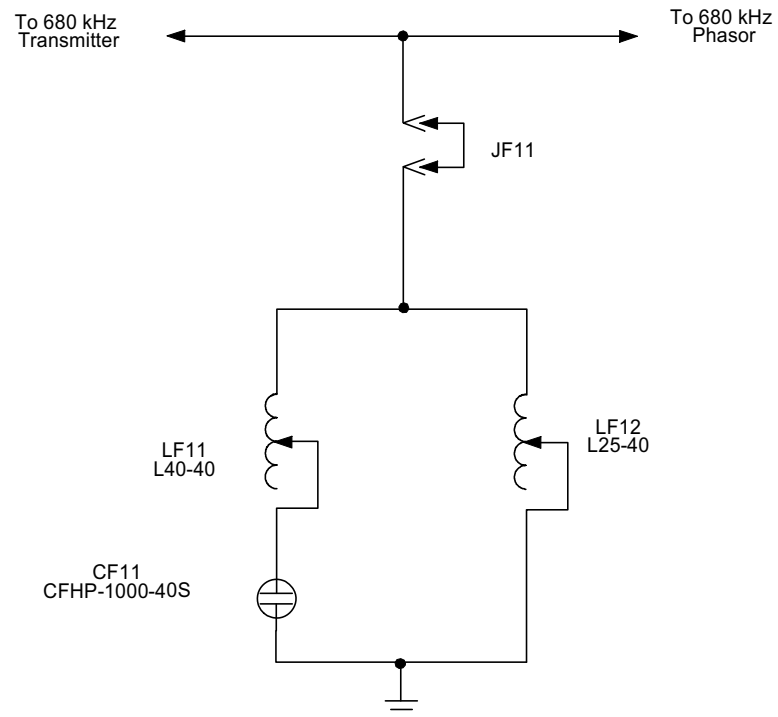
TOWER #1 (SOUTH) FILTERING AND DETUNING CIRCUITS
 STATION WQDR - RALEIGH, NORTH CAROLINA
 570 kHz - 1 kW-D, 0.04 kW-N, U, ND
 FEBRUARY, 2023



TOWER #2 (NORTH) FILTERING AND DETUNING CIRCUITS
STATION WQDR - RALEIGH, NORTH CAROLINA
570 kHz - 1 kW-D, 0.04 kW-N, U, ND
FEBRUARY, 2023



TOWER #3 (EAST) FILTERING AND DETUNING CIRCUITS
STATION WQDR - RALEIGH, NORTH CAROLINA
570 kHz - 1 kW-D, 0.04 kW-N, U, ND
FEBRUARY, 2023



STATION WPTF TRANSMITTER SHUNT FILTER
STATION WQDR - RALEIGH, NORTH CAROLINA
570 kHz - 1 kW-D, 0.04 kW-N, U, ND
FEBRUARY, 2023