

# T Z SAWYER TECHNICAL CONSULTANTS

2130 HUTCHISON GROVE COURT  
FALLS CHURCH, VIRGINIA 22043-5553  
TEL. (703) 848-2130

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## ENGINEERING STATEMENT

FM TRANSLATOR STATION - LICENSE TO COVER APPLICATION

FACILITY ID: 201280

CALL SIGN: W250CP

LATROBE, PA

CP PERMIT - BMPFT-20171211AAN

The permittee has completed all construction and is ready for the commencement of operations. All special operating conditions have been met, or are agreed to by the applicant/permittee as noted below:

**Special Operating Condition #1 – Reduce or cease operation as necessary.** The permittee is in agreement with special condition #1 to reduce or cease operation as necessary to comply with the FCC guidelines concerning radiofrequency electromagnetic fields in coordination with other site users.


**Special Operating Condition #2 – Program Test.** The permittee is in agreement with special condition #2, that commencement of program test will only occur after the filing of the licensed application.

**Special Operating Condition #3 – Mounting of FM translator Antenna On AM tower.** In order to accommodate the W250CP FM translator antenna on the WKHJ AM tower (formerly WQTW), WKHJ has made adjustments to its antenna system and other repairs to the tower. The undersigned certifies and confirms that it has prepared an FCC Form 302-AM direct measurement of power application on behalf of WKHJ for filing with the Commission. That application is a “paper-filing” and is filed directly with the Office of the Secretary for processing. W250CP and WKHJ are co-owned facilities. A copy of the direct measurement application (FCC Form 302-AM) is attached.

**Special Operating Condition #4 – AM Cross-Service Translator,** holding period, and primary station change restrictions. The permittee is in agreement with all special condition 4, AM Cross-Service Translator and terms of operation.

June 4, 2019

Timothy Z. Sawyer, Consulting Engineer  
Tel.: (703)848-2130  
e-mail to: [tzsawyer@tzsawyer.com](mailto:tzsawyer@tzsawyer.com)



W250CP - LATROBE, PA  
FM TRANSLATOR

LICENSE TO COVER CONSTRUCTION PERMIT

COMPLIANCE WITH SPECIAL OPERATING CONDITION #3

DIRECT MEASUREMENT OF POWER APPLICATION  
WKHJ (AM), LATROBE, PA

FCC 302-AM  
APPLICATION FOR AM  
BROADCAST STATION LICENSE  
(Please read instructions before filing out form.)

FOR COMMISSION USE ONLY

FILE NO.

SECTION I - APPLICANT FEE INFORMATION

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

**BROADCAST COMMUNICATIONS III, INC.**

MAILING ADDRESS (Line 1) (Maximum 35 characters)

**P.O. BOX 990**

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

**GREENSBURG**

STATE OR COUNTRY (if foreign address)

**PA**

ZIP CODE

**15601**

TELEPHONE NUMBER (include area code)

**(724) 853-7000**

CALL LETTERS

**WKHJ**

OTHER FCC IDENTIFIER (If applicable)

**FAC ID: 36115**

2. A. Is a fee submitted with this application?

☐

Yes

☒

No

B. If No, indicate reason for fee exemptions (see 47 C.F.R. Section 1.1 112).

☐

Governmental Entity

☐

Noncommercial educational licensee

☒

Other (Please explain):

C. If Yes, provide the following information:

**DIRECT MEASUREMENT OF POWER - NO FEE REQUIRED**

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)
\$ <b>\$0.00</b>

FOR FCC USE ONLY

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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)

\$
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FOR FCC USE ONLY

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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

\$ **\$0.00**

FOR FCC USE ONLY

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SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT <b>BROADCAST COMMUNICATIONS III, INC.</b>		
MAILING ADDRESS <b>P.O. BOX 990</b>		
CITY <b>GREENSBURG</b>	STATE <b>PA</b>	ZIP CODE <b>15601</b>

2. This application is for:

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

Call letters <b>WKHJ</b>	Community of License <b>LATROBE, PA</b>	Construction Permit File No. <b>--</b>	Modification of Construction Permit File No(s). <b>--</b>	Expiration Date of Last Construction Permit <b>--</b>
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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.

**DIRECT MEASUREMENT OF POWER APPLICATION. DOES NOT APPLY.**

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.

**DIRECT MEASUREMENT OF POWER APPLICATION. DOES NOT APPLY.**

Exhibit No.

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction 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.

**DIRECT MEASUREMENT OF POWER APPLICATION. DOES NOT APPLY.**

Exhibit No.

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.361 5(b)?

☐ Yes ☐ No

☒ Does not apply

If No, explain in an Exhibit.

**DIRECT MEASUREMENT OF POWER APPLICATION. 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

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.

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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 the application.

### 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 <b>ROBERT M. STEVENS</b>	Signature 	
Title <b>PRESIDENT</b>	Date <b>06/04/2019</b>	Telephone Number <b>(724) 853-7000</b>

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 (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503)

#### 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

**BROADCAST COMMUNICATIONS III, INC.**

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

☐

Station License

☒

Direct Measurement of Power

## 1. Facilities authorized in construction permit

Call Sign <b>WKHJ</b>	File No. of Construction Permit (if applicable) --	Frequency (kHz) <b>1570</b>	Hours of Operation <b>UNLIMITED</b>	Power in kilowatts	
				Night <b>0.224</b>	Day <b>1.0</b>

## 2. Station location

State <b>PA</b>	City or Town <b>LATROBE</b>
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## 3. Transmitter location

State <b>PA</b>	County <b>WESTMORELAND</b>	City or Town <b>LATROBE</b>	Street address (or other identification) <b>281-287 GEORGE STREET</b>
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## 4. Main studio location

State	County <b>NO LONGER REQUIRED</b>	City or Town	Street address (or other identification)
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## 5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)
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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 <b>2.12</b>		RF common point or antenna current (in amperes) without modulation for day system <b>4.47</b>	
Measured antenna or common point resistance (in ohms) at operating frequency Night <b>50.0</b>	Day <b>50.0</b>	Measured antenna or common point reactance (in ohms) at operating frequency Night <b>+151</b>	Day <b>+151</b>

## 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: **NOT APPLICABLE - NONDIRECTIONAL**

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  <b>UNIFORM CROSS-SECTION, GUYED, STEEL TOWER</b>	Overall height in meters of radiator above base insulator, or above base, if grounded.  <b>46.34</b>	Overall height in meters above ground (without obstruction lighting)  <b>46.34</b>	Overall height in meters above ground (include obstruction lighting)  <b>46.34</b>	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. <table border="1"><tr><td>Exhibit No.</td></tr><tr><td>--</td></tr></table>	Exhibit No.	--
Exhibit No.						
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Excitation

☐

Series

☒

Shunt

**FOLDED UNIPOLE ANTENNA**

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

North Latitude	<b>40</b> °	<b>18</b> '	<b>07</b> "	West Longitude	<b>79</b> °	<b>21</b> '	<b>56</b> "
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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.

**FIG. 1**

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

Exhibit No.

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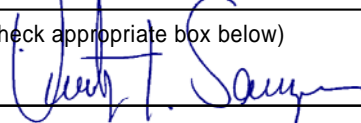
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

**DIRECT MEASUREMENT OF POWER APPLICATION - NO CHANGE IN ANTENNA GROUND SYSTEM OR RADIATOR CHARACTERISTICS. GROUND SYSTEM CONSISTS OF 120-EQUALLY SPACED, BURIED, COPPER RADIAL WIRES 160 FEET (48.77 METERS) IN LENGTH ABOUT THE BASE OF THE TOWER.**

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

**1. ADDED FM TRANSLATOR ANTENNA - W250CP, LATROBE, PA  
2. ADJUSTED FOLDED UNIPOLE SHUNT WITH 3-SYMMETRICAL DROP WIRES. THERE ARE NO CHANGE IN THE RADIATION CHARACTERISTICS OF THE ANTENNA.**

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) <b>TIMOTHY Z. SAWYER</b>	Signature (check appropriate box below) 
<b>T Z SAWYER TECHNICAL CONSULTANTS 2130 HUTCHISON GROVE COURT, SUITE 100 FALLS CHURCH, VA 22043</b>	Date <b>06/042019</b>
	Telephone No. (Include Area Code) <b>(703) 848-2130</b>

☐

Technical Director

☐

Registered Professional Engineer

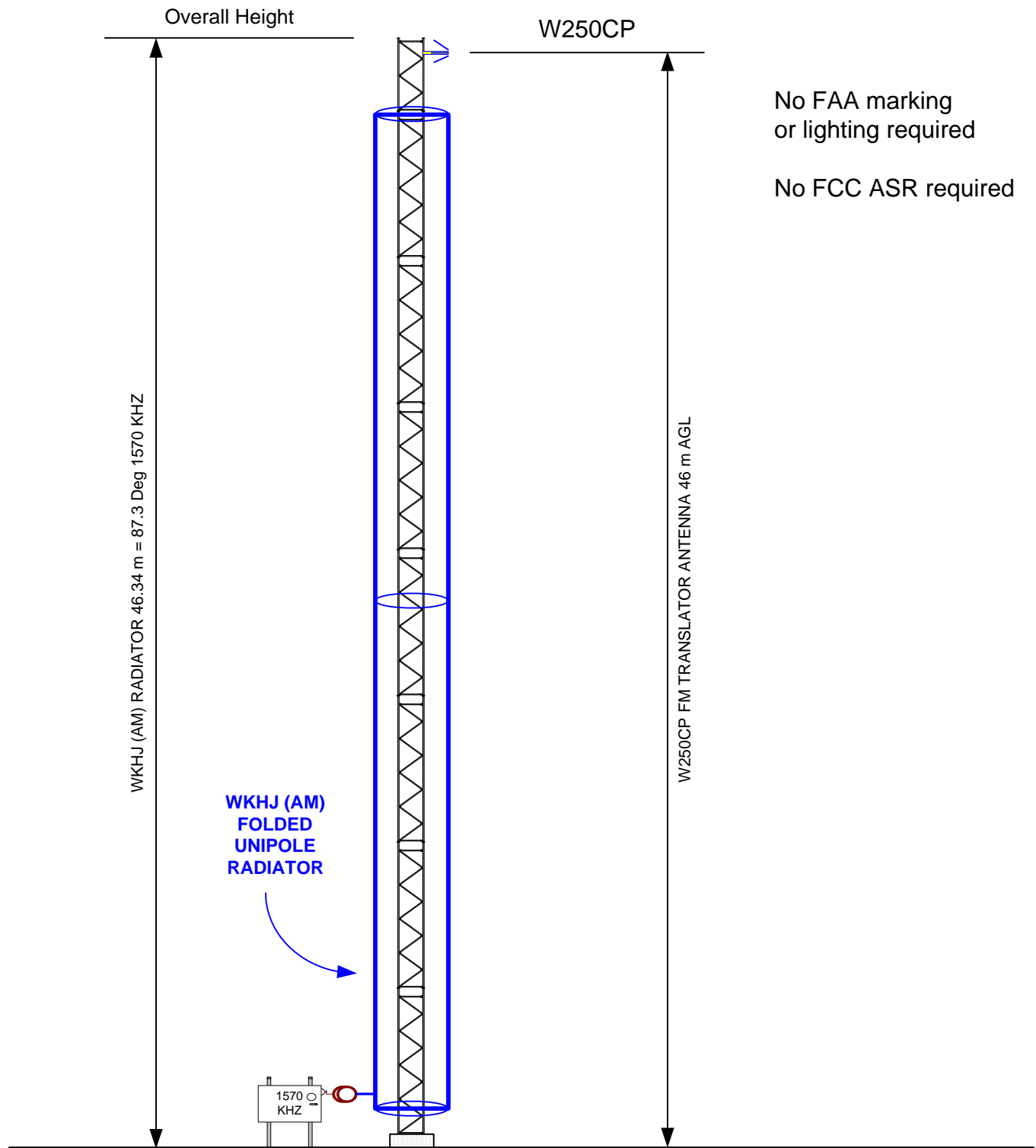
☐

Chief Operator

☐

Technical Consultant

☒Other (specify) **CONSULTING ENGINEER**



**T Z SAWYER TECHNICAL  
CONSULTANTS**

Tel.: (703) 848-2130  
www.tzsawyer.com

# **WKHJ (AM) RADIATOR VERTICAL SKETCH OF ANTENNA**

**LATROBE, PA**

**FIGURE  
1**

**FALL CHURCH, VIRGINIA 22043-2555**

SIZE  
A

CAGE NO  
N/A

DWG NO  
20190604WKHJ.F1

REV  
NONE

**(c) 2019, ALL RIGHTS RESERVED**

SCALE  
1" = 20'  
VERTICAL ONLY

JUNE 2019

SHEET