

FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

## **STATEMENT RE COMPLIANCE WITH CONSTRUCTION-PERMIT CONDITIONS**

Construction Permit BMPED-20110107ABW contains nine Special Operating Conditions or Restrictions. As this Attachment to Exhibit 9 demonstrates, the Permittee has complied with each of those nine Conditions.

**1. The permittee/licensee, in coordination with other users of the site, must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of the FCC guidelines.**

The Permittee will coordinate with other users of the site to reduce power or to cease power as necessary to prevent exposure of human beings to Non-Ionizing Electromagnetic Radiation in excess of the applicable FCC limits.

**2. Program tests for WRRS(FM) will not commence until Talking Information Center, Incorporated ceases operation of, and divests all interest in Low Power FM Station WRRS-LP, Pittsfield, Massachusetts (Facility ID No. 133782). Furthermore, a license will not be granted to WRRS(FM) until Talking Information Center, Incorporated divests all interest in WRRS-LP. A certification including the date that WRRS-LP's facility was cancelled or the date the assignment was consummated must be included as an attachment to the FCC Form 302-FM, application for license, to cover this construction permit.**

The Permittee has divested itself of all interest in Low Power FM Station WRRS-LP, Pittsfield, Massachusetts, Facility ID No. 133782. See Annex I to this Attachment.

**3. During installation of the antenna authorized herein, AM Station WVBF(AM), Middleborough Center, Massachusetts (Facility ID No. 63403) shall determine operating power by the indirect method. Upon completion of the installation, antenna impedance measurements on the AM antenna must be made and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission (along with a tower sketch of the installation) in an FCC Form 302-AM application for the AM station to return to the direct method of power determination. [...]**

During the installation of the antenna described in this application, the licensee of Station WVBF(AM) determined operating power by the indirect method. Upon completion of the installation, the licensee of Station WVBF measured the impedance of the WVBF radiator.

The licensee of Station WVBF has sent to the FCC an FCC Form 302-AM application for authority to return to the direct method of determining Station WVBF's operating power. See Annex II to this Attachment.. The WVBF license application includes the results of the impedance measurements and a tower sketch of the installation.

**4. Before Program Tests are authorized, the licensee/permittee must submit the results of a complete proof-of-performance to establish the horizontal-plane radiation patterns for both the horizontally and vertically polarized radiation components. [...]**

By means of this application, the Permittee is requesting a grant of authority to conduct Program Tests at the full level of Effective Radiated Power authorized by Construction Permit BMPED-20110107ABW. Annex III to this Attachment comprises a complete proof of performance for the antenna that the Permittee has had installed.

**5. Before Program Tests are authorized, the permittee must submit an affidavit from a licensed surveyor to establish that the directional antenna has been oriented at the proper azimuth.**

Annex IV to this Attachment comprises the affidavit of a licensed surveyor that establishes that the directional antenna has been oriented at the proper azimuth.

**6. Before Program Tests are authorized, the permittee/licensee shall submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer.**

Annex V to this Attachment comprises the Declaration of the engineer who supervised the installation of the authorized directional antenna. The Declaration includes a certification that the antenna was installed pursuant to the manufacturer's instructions. The Declaration also sets forth the Engineer's qualifications.

**7. Before Program Tests are authorized, the permittee/licensee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the [...] community coverage requirements of 47 C.F.R. [§] 73.515[.]**

Annex VI to this Attachment comprises a showing of the constructed facility's compliance with the community coverage requirements of 47 C.F.R. § 73.515. This showing depicts the boundaries of the community of license – the Census Designated Place known as Middleborough

Center, Massachusetts, as defined by the U.S. Census Bureau – and the constructed facility's 60-dB $\mu$ <sub>f(50,50)</sub> contour. The contour has been derived using:

- the measured horizontal-plane radiation pattern of the antenna as specified in the antenna's proof of performance (Annex II to this Attachment);
- 3-second digitized terrain data; and
- a computerized version of the FCC's f(50,50) signal-strength prediction curves.

As Annex VI demonstrates, the constructed facility's 60-dB $\mu$ <sub>f(50,50)</sub> contour fully envelopes the boundaries of the community of license. The constructed facility thus complies with the community-coverage requirements of 47 C.F.R. § 73.515.

**8. The RMS of the composite measured relative field horizontal plane directional antenna pattern must encompass at least 85% of the RMS of the composite relative field horizontal plane directional antenna pattern authorized by this construction permit.**

The proof of performance that appears as Annex III to this Attachment demonstrates that the root-mean-square value of the composite measured relative field horizontal-plane directional-antenna pattern encompasses at least 85% of the RMS of the composite relative-field, horizontal-plane directional antenna pattern authorized by Construction Permit BMPED-20110107ABW.

**9. The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this construction permit. A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:**

**0.4 kilowatt**

**Principal minima and their associated field strength limits:**

**140 degrees True: 0.067 kilowatt.**

The installed antenna's Proof of Performance, Annex III to this Attachment, demonstrates the constructed facility's compliance with the limits on Effective Radiated Power set forth in Condition No. 9.

FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

## **ANNEX I**

### **CERTIFICATION OF DIVESTITURE OF LOW-POWER FM STATION WRRS-LP**

FCC Form 302-FM  
Radio Station WRRS(NCE-FM), Channel 203A,  
Middleborough Center, Massachusetts, FCC Facility ID No. 177016  
Application for a License to Cover  
Construction Permit BMPED-20110107ABW  
Attachment 1 to Exhibit 9

**CERTIFICATION OF DIVESTITURE  
OF LOW-POWER FM STATION WRRS-LP**

The Talking Information Center, Incorporated (*TIC*) hereby certifies that it has divested itself of all interest in Low Power FM Station WRRS-LP, Pittsfield, Massachusetts, Facility ID No. 133782, on September 13, 2011. TIC accomplished the divestiture by means of an assignment of the Low Power FM Station's license to the Berkshire benevolent Association for the Blind, Inc., with the Commission's prior consent. See FCC File No. BALL-20110523AFT. TIC has duly reported the consummation of the assignment to the Commission by means of the CDBS electronic-filing system. See Supplement 1 hereto.

**TALKING INFORMATION CENTER, INCORPORATED**

BY Ron Bersani  
RON BERSANI  
ITS EXECUTIVE DIRECTOR

DATE: OCTOBER 5, 2011

FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

**SUPPLEMENT 1 TO ANNEX I  
CONSUMMATION REPORT FOR THE ASSIGNMENT OF  
LOW-POWER FM STATION WRRS-LP**

Federal Communications Commission Washington, D.C. 20554	Approved by OMB 3060-0031 (September 2004)	FOR FCC USE ONLY
<b>Consummation Notice</b>  Read Instructions/FAQ before filling out form		FOR COMMISSION USE ONLY FILE NO.

**Section I - General Information**

1.	Legal Name of the Applicant TALKING INFORMATION CENTER, INCORPORATED										
	Mailing Address 130 ENTERPRISE DRIVE P. O. BOX 519										
	City MARSHFIELD	State or Country (if foreign address) MA	Zip Code 02050 -								
	Telephone Number (include area code) 7818344400		E-Mail Address (if available)								
	FCC Registration Number: 0008892069	Call Sign WRRS-LP	Facility ID Number 133782								
2.	Contact Representative (if other than licensee/permittee) JOHN JOSEPH MCVEIGH, ESQ.		Firm or Company Name J. J. MCVEIGH, ATTORNEY AT LAW								
	Mailing Address 16230 FALLS ROAD P.O. BOX 128										
	City BUTLER	State or Country (if foreign address) MD	ZIP Code 21023 - 0128								
	Telephone Number (include area code) 4435075611		E-Mail Address (if available) KD4VS@COMCAST.NET								
3.	Purpose: <input checked="" type="radio"/> Consummation Notice  <input type="radio"/> Extension of Consummation  <input type="radio"/> Notification of Non-consummation										
4.	Consummation for: <input checked="" type="radio"/> Assignment of License and/or Permit  <input type="radio"/> Transfer of Control										
5.	Lead Station File Number: BALL - 20110523AFT		Lead Facility ID: 133782								
6.	<table border="1"> <thead> <tr> <th data-bbox="121 1669 690 1711">File Number</th> <th data-bbox="690 1669 966 1711">Facility ID</th> <th data-bbox="966 1669 1250 1711">Call Sign</th> <th data-bbox="1250 1669 1550 1711">Will not Consummate</th> </tr> </thead> <tbody> <tr> <td data-bbox="121 1711 690 1753">BALL-20110523AFT</td> <td data-bbox="690 1711 966 1753">133782</td> <td data-bbox="966 1711 1250 1753">WRRS-LP</td> <td data-bbox="1250 1711 1550 1753"><input type="checkbox"/></td> </tr> </tbody> </table>			File Number	Facility ID	Call Sign	Will not Consummate	BALL-20110523AFT	133782	WRRS-LP	<input type="checkbox"/>
File Number	Facility ID	Call Sign	Will not Consummate								
BALL-20110523AFT	133782	WRRS-LP	<input type="checkbox"/>								
7.	Date of consummation: 9/13/2011										
8.	FRN of Assignee/Transferee: 0020778726										

I hereby certify that the referenced assignment of license/transfer of control was consummated within the required time period, on the date indicated in #7 above.

Typed or Printed Name of Person Signing RON BERSANI	Typed or Printed Title of Person Signing EXECUTIVE DIRECTOR
Signature	Date 10/4/2011

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

---

## Exhibits

---



# **Federal Communications Commission**

**FCC MB - CDBS Electronic Filing**  
**Account number: 737304**

**Description: CONSUMMATION NOTICE FOR WRRS-LP, PITTSFIELD,  
MASSACHUSSETTS**

**Successfully filed at Oct 5 2011 10:00AM**

**Based on the information supplied, no fee is required.**

[Informal Menu](#)

[Logout](#)

FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016


Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

## **ANNEX II**

### **APPLICATION BY THE LICENSEE OF STATION WVBF(AM) FOR AUTHORITY TO RETURN TO THE DIRECT METHOD OF DETERMINING OPERATING POWER**

 <b>Click-N-Ship®</b>	
<b>P</b>	usps.com 9405 5036 9930 0481 5052 84 0049 0000 0512 0743 <b>US POSTAGE \$4.90</b> Flat Rate Env Button Commercial Base Pricing Mailed from 21023 062S0000001310
<b>USPS PRIORITY MAIL®</b>	
JOHN JOSEPH MCVEIGH Ref#: WVBF BZ <b>0024</b> J.J. MCVEIGH, ATTORNEY AT LAW PO BOX 128 BUTLER MD 21023-0128	
SHIP MARLENE H DORTCH TO: FEDERAL COMMUNICATIONS COMMISSION 9300 E HAMPTON DR OFFICE OF THE SECRETARY CAPITOL HGTS MD 20743-3813	
<b>ZIP - e/ USPS DELIVERY CONFIRMATION™</b>	
<b>420 20743 9405 5036 9930 0481 5052 84</b>	
Electronic Rate Approved #038555749	

✂ ————— Cut on dotted line.

## Instructions

- Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
- Place your label so it does not wrap around the edge of the package.
- Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- To mail your package with PC Postage®, you may schedule a Carrier Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- Mail your package on the "Ship Date" you selected when creating this label.

## Online Label Record (Label 3 of 1)

**Delivery Confirmation™ Number:**  
**9405 5036 9930 0481 5052 84**

Paid Online

Transaction #:	229910642	Priority Mail® Postage:	<b>\$4.90</b>
Print Date:	04/16/2012	Total:	<b>\$4.90</b>
Ship Date:	04/16/2012		
Weight:	0 lb 5 oz		

**From:** JOHN JOSEPH MCVEIGH Ref#: WVBF BZ  
 J.J. MCVEIGH, ATTORNEY AT LAW  
 PO BOX 128  
 BUTLER MD 21023-0128

**To:** MARLENE H DORTCH  
 FEDERAL COMMUNICATIONS COMMISSION  
 9300 E HAMPTON DR  
 OFFICE OF THE SECRETARY  
 CAPITOL HGTS MD 20743-3813

\* Commercial Base Pricing Priority Mail rates apply. There is no fee for Delivery Confirmation service on Priority Mail service with use of this electronic rate shipping label. Delivery information is not available by phone for the electronic rate. Refunds for unused postage paid labels can be requested online 10 days from the print date.



Thank you for shipping with the United States Postal Service!  
 Check the status of your shipment on the Track & Confirm page at usps.com

Date: Wed, 18 Apr 2012 17:05:49 -0500 (CDT)  
To: kd4vs@comcast.net  
From: "U.S. Postal Service" <U.S. Postal Service@usps.com>  
Subject: USPS Shipment Info for 9405 5036 9930 0481 5052 84

This is a post-only message. Please do not respond.

JOHN JOSEPH MCVEIGH has requested that you receive a Track & Confirm update, as shown below.

Track & Confirm e-mail update information provided by the U.S. Postal Service.

Label Number: 9405 5036 9930 0481 5052 84

Service Type: Priority Mail Delivery Confirmation

Shipment Activity	Location	Date & Time
Delivered	CAPITOL HEIGHTS MD 20743	04/18/12 8: <u>59am</u>
Sorting Complete	CAPITOL HEIGHTS MD 20743	04/18/12 8: <u>50am</u>
Arrival at Post Office	CAPITOL HEIGHTS MD 20743	04/18/12 5: <u>58am</u>
Processed through Sort Facility	<u>USPS</u> CAPITOL HEIGHTS MD 20790	04/18/12 12: <u>15am</u>
Processed at Origin Sort Facility	<u>USPS</u> BALTIMORE MD 21233	04/17/12 7: <u>00pm</u>
Dispatched to Sort Facility	BUTLER MD 21023	04/17/12 5: <u>09pm</u>
Acceptance	BUTLER MD 21023	04/17/12 1: <u>56pm</u>
Electronic Shipping Info Received	04/16/12	

Reminder: Track & Confirm by email

Date of email request: 04/16/12

Future activity will continue to be emailed for up to 2 weeks from the Date of Request shown above. If you need to initiate the Track & Confirm by email process again at the end of the 2 weeks, please do so at the USPS Track & Confirm web site at <http://www.usps.com/shipping/trackandconfirm.htm>



Search USPS.com or Track Packages

Quick Tools

Ship a Package

Send Mail

Manage Your Mail

Shop

Business Solutions

# Track & Confirm

GET EMAIL UPDATES

PRINT DETAILS

YOUR LABEL NUMBER	SERVICE	STATUS OF YOUR ITEM	DATE & TIME	LOCATION	FEATURES
9405503699300481505284	Priority Mail®	Delivered	April 18, 2012, 8:59 am	CAPITOL HEIGHTS, MD 20743	<b>Expected Delivery By:</b> April 18, 2012 Delivery Confirmation™
		Sorting Complete	April 18, 2012, 8:50 am	CAPITOL HEIGHTS, MD 20743	
		Arrival at Post Office	April 18, 2012, 5:58 am	CAPITOL HEIGHTS, MD 20743	
		Processed through USPS Sort Facility	April 18, 2012, 12:15 am	CAPITOL HEIGHTS, MD 20790	
		Processed at USPS Origin Sort Facility	April 17, 2012, 7:00 pm	BALTIMORE, MD 21233	
		Dispatched to Sort Facility	April 17, 2012, 5:09 pm	BUTLER, MD 21023	
		Acceptance	April 17, 2012, 1:56 pm	BUTLER, MD 21023	
		Electronic Shipping Info Received	April 16, 2012		

## Check on Another Item

What's your label (or receipt) number?

Find

### LEGAL

Privacy Policy ›  
Terms of Use ›  
FOIA ›  
No FEAR Act EEO Data ›

### ON USPS.COM

Government Services ›  
Buy Stamps & Shop ›  
Print a Label with Postage ›  
Customer Service ›  
Site Index ›

### ON ABOUT.USPS.COM

About USPS Home ›  
Newsroom ›  
Mail Service Updates ›  
Forms & Publications ›  
Careers ›

### OTHER USPS SITES

Business Customer Gateway ›  
Postal Inspectors ›  
Inspector General ›  
Postal Explorer ›

Copyright© 2012 USPS. All Rights Reserved.

John Joseph McVeigh  
Attorney at Law  
16230 Falls Road, P.O. Box 128  
Butler, Maryland 21023-0128

Telephone: 1.443.507.5611  
Mobile: 1.443.927.6657

E-Mail: [kd4vs@comcast.net](mailto:kd4vs@comcast.net)  
Bars: NY, DC, US PTO

April 16, 2012

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 Twelfth Street, SouthWest  
Washington, D.C. 20554

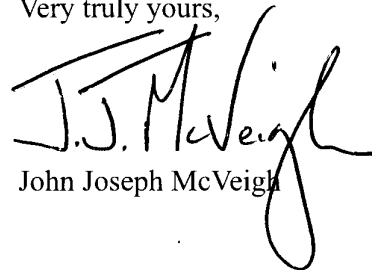
Re: FCC Form 302-AM  
Radio Station WVBF(AM),  
1530 kHz, Middleborough Center, Massachusetts  
FCC Facility ID No. 63404

Dear Ms. Dortch,

I tender, in triplicate, the application of Steven J. Callahan for authority to resume measuring the Transmitter Power Output of radio station WVBF(AM) by the Direct Method. Mr. Callahan is filing this application pursuant to Special Operating Condition No. 3 of Construction Permit BMPED-20110107ABW, which authorizes the installation, on the WVBF radiator, of the main antenna for Noncommercial Educational FM Radio Station WRRS, Channel 203A, Middleborough Center, Massachusetts, FCC Facility ID No. 177016.

Please direct any questions to this office.

Very truly yours,

  
John Joseph McVeigh

Enclosure

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)

MAILING ADDRESS (Line 1) (Maximum 35 characters)

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

STATE OR COUNTRY (if foreign address)

ZIP CODE

TELEPHONE NUMBER (include area code)

CALL LETTERS

OTHER FCC IDENTIFIER (If applicable)

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)

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

\$

FOR FCC USE ONLY

--

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT		
MAILING ADDRESS		
CITY	STATE	ZIP CODE

2. This application is for:

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

Call letters	Community of License	Construction Permit File No.	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit
--------------	----------------------	------------------------------	---	---

3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

☐ Yes ☐ No

Exhibit No.

If No, explain in an Exhibit.

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

☐ Yes ☐ No

Exhibit No.

If No, state exceptions in an Exhibit.

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

Exhibit No.

If Yes, explain in an Exhibit.

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).

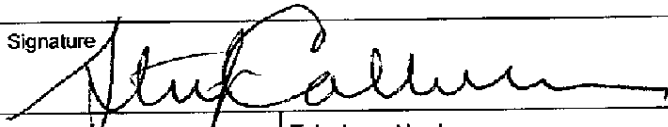
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

### 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 Steven J. Callahan	Signature 	
Title Sole Proprietor and Licensee	Date April 16, 2012	Telephone Number 1.508.386.8662

### 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

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

**2. Station location**

State	City or Town
-------	--------------

**3. Transmitter location**

State	County	City or Town	Street address (or other identification)
-------	--------	--------------	---

**4. Main studio location**

State	County	City or Town	Street address (or other identification)
-------	--------	--------------	---

**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	RF common point or antenna current (in amperes) without modulation for day system
Measured antenna or common point resistance (in ohms) at operating frequency Night Day	Measured antenna or common point reactance (in ohms) at operating frequency Night Day

**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:

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).

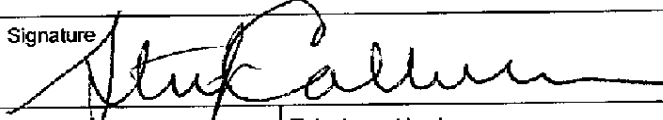
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

### 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 Steven J. Callahan	Signature 	
Title Sole Proprietor and Licensee	Date April 16, 2012	Telephone Number 1.508.386.8662

### 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.

FCC Form 302-AM  
Application for Authority to Resume Measuring  
Transmitter Power Output by the Direct Method  
Radio Station WVBF(AM),  
1530 kHz, Middleborough Center, Massachusetts  
FCC Facility ID No. 63404  
April 2012

## **EXHIBIT 1**

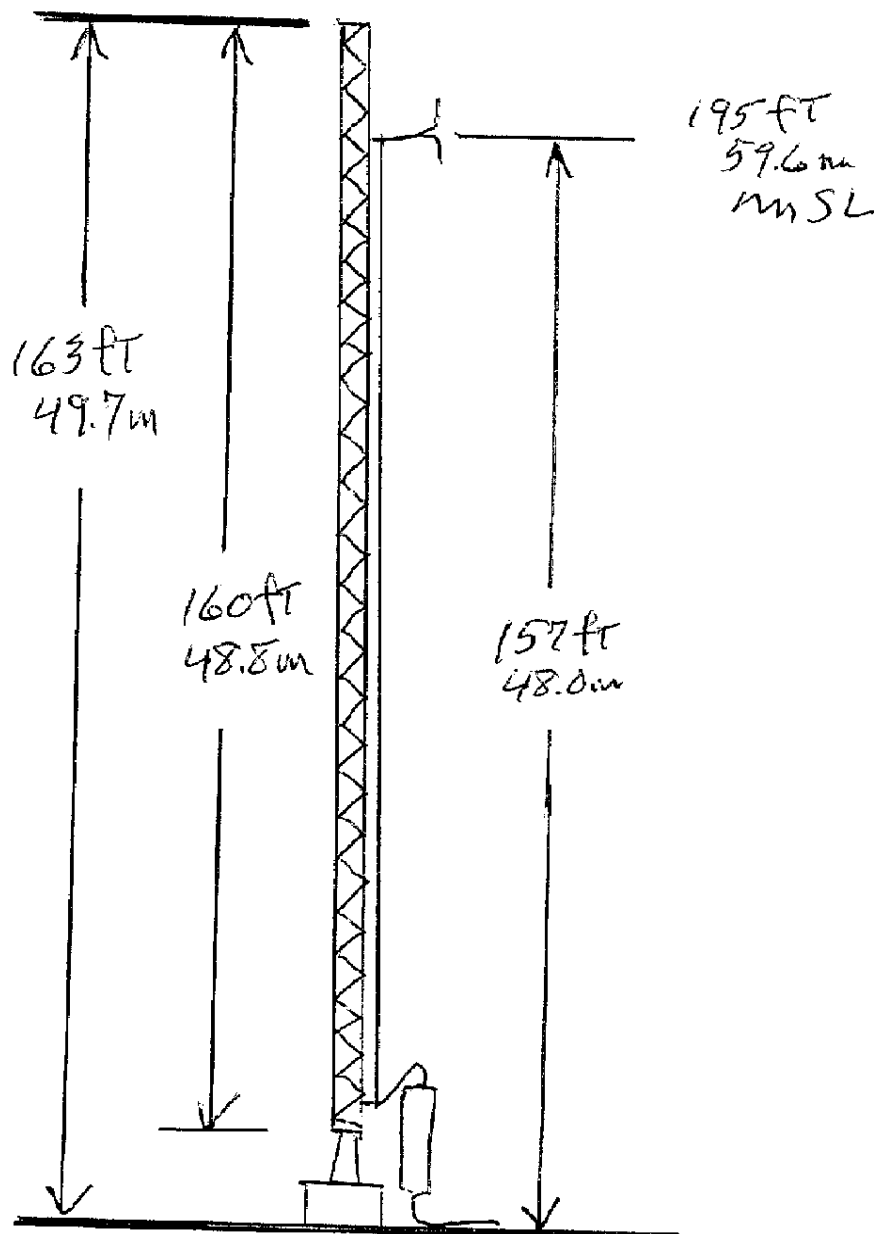
Annex A to this Exhibit is a sketch depicting the WVBF radiator with the main antenna for Noncommercial Educational FM Radio Station WRRS, Channel 203A, Middleborough Center, Massachusetts, FCC Facility ID No. 177016, installed.

Annex A also depicts the Andrew Corporation type AVA5-50 7/8-inch foam-dielectric transmission line for station WRRS, as well as an RF Systems Model ICR-100-NF isocoupler that is installed at the base of the WVBF radiator.

FCC Form 302-AM  
Application for Authority to Resume Measuring  
Transmitter Power Output by the Direct Method  
Radio Station WVBF(AM),  
1530 kHz, Middleborough Center, Massachusetts  
FCC Facility ID No. 63404  
April 2012

**ANNEX A TO EXHIBIT 1**

# DIAGRAM OF WRRS-FM ANTENNA ON WVBF TOWER



FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

**ANNEX III**  
**ANTENNA PROOF OF PERFORMANCE**

**S.O. 28849**  
**Report of Test 6810-1R-DA**  
**for**  
**TALKING INFORMATION CENTER, INCORPORATED**  
**WRRS 88.5 MHz Middleborough Center, MA**

**OBJECTIVE:**

The objective of this test was to demonstrate the directional characteristics of a 6810-1R-DA to meet the needs of WRRS and to comply with the requirements of the FCC construction permit, file number BMPED-20110107ABW.

**RESULTS:**

The following Figures are the results of the measurements from our pattern range:

- Figure 1A - Measured Azimuth Pattern with the FCC Composite
- Figure 1B - Measured Composite Azimuth Pattern with the FCC Composite
- Figure 1C - Tabulation of the Horizontal Polarization for the Measured Azimuth Pattern
- Figure 1D - Tabulation of the Vertical Polarization for the Measured Azimuth Pattern
- Figure 1E - Tabulation of the Measured Composite Azimuth Pattern
- Figure 1F - Tabulation of the FCC Composite

The calculated elevation pattern of the antenna is shown in Figure 3.

Construction permit file number BMPED-20110107ABW indicates that the Horizontal radiation component shall not exceed 0.4 kW at any azimuth and is restricted to the following values at the azimuths specified:

140 Degrees T: 0.067 kW



From Figure 1A, the maximum radiation of the Horizontal component occurs at 330 Degrees T. At the restricted azimuth of 140 Degrees T the Horizontal component is 7.74 dB down from the maximum of 0.4 kW, or 0.067 kW.

The R.M.S. of the Horizontal component is 0.753. The total Horizontal power gain is 0.842. The R.M.S. of the Vertical component is 0.716. The total Vertical power gain is 0.744. See Figure 4 for calculations. The R.M.S. of the FCC composite pattern is 0.790. The R.M.S. of the measured composite pattern is 0.789. Eighty-five percent (85%) of the original authorized FCC composite pattern is 0.672. Therefore this pattern complies with the FCC requirement of 73.316(c)(2)(ix)(A).

#### **METHOD OF DIRECTIONALIZATION:**

The 6810-1R-DA was mounted on a tower of precise scale to the Rohn 45 tower at the WRRS site. The spacing of the antenna to the tower was varied to achieve the vertical pattern shown in Figure 1A. A horizontal parasitic element was placed directly under the bay. The position of this horizontal parasitic element was changed until the horizontal pattern shown in Figure 1A was achieved. See Figure 2 for mechanical details.

#### **METHOD OF MEASUREMENT:**

As allowed by the construction permit, file number BMPED-20110107ABW, a single level of the 6810-1R-DA was set up on the Howell Laboratories scale model antenna pattern measuring range. A scale of 4.5:1 was used.

#### **SUPERVISION:**

Mr. Surette was graduated from Lowell Technological Institute, Lowell, Massachusetts in 1973 with the degree of Bachelor of Science in Electrical Engineering. He has been directly involved with design and development of broadcast antennas, filter systems and RF transmission components since 1974, as an RF Engineer for six years with the original Shively Labs in Raymond, ME and for a short period of time with Dielectric Communications. He is currently an Associate Member of the AFCCE and a Senior Member of IEEE. He has authored a chapter on filters and combining systems for the latest edition of the CRC Electronics Handbook and for the 9<sup>th</sup> and 10<sup>th</sup> Editions of the NAB Handbook.

**EQUIPMENT:**

The scale model pattern range consists of a wooden rotating pedestal equipped with a position indicator. The scale model bay is placed on the top of this pedestal and is used in the transmission mode at approximately 20 feet above ground level. The receiving corner reflector is spaced 50 feet away from the rotating pedestal at the same level above ground as the transmitting model. The transmitting and receiving signals are carried to a control building by means of RG-9/U double shielded coax cable.

The control building is equipped with:

Hewlett Packard Model 8753 Network Analyzer

PC Based Controller

Hewlett Packard 7550A Graphics Plotter

The test equipment is calibrated to ANSI/NCSL Z540-1-1994.

**TEST PROCEDURES:**

The corner reflector is mounted so that the horizontal and vertical azimuth patterns are measured independently by rotating the corner reflector by 90 degrees. The network analyzer was set to 398.25 MHz. Calibrated pads are used to check the linearity of the measuring system. For example, 6 dB padding yields a scale reading of 50 from an unpadding reading of 100 in voltage. From the recorded patterns, the R.M.S. values are calculated and recorded as shown in Figure 1A.

Respectfully submitted by:

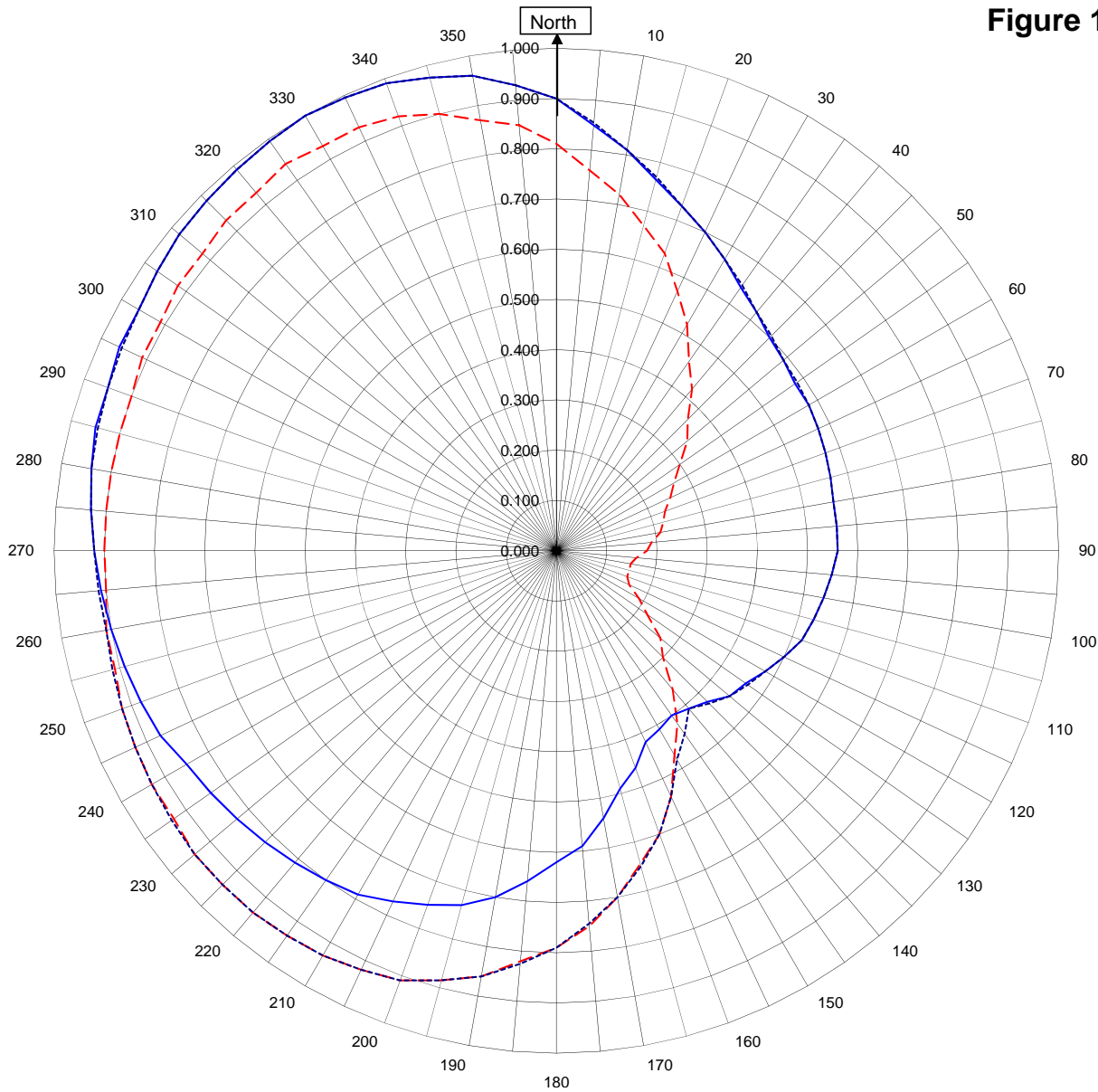


Robert A. Surette  
Director of Sales Engineering  
S/O 28849  
February 11, 2011

# Shively Labs

Shively Labs, a division of Howell Laboratories, Inc. Bridgton, ME (207)647-3327

Figure 1A



**WRRS**      **Middleborough Center, MA**  
28849  
211/2011

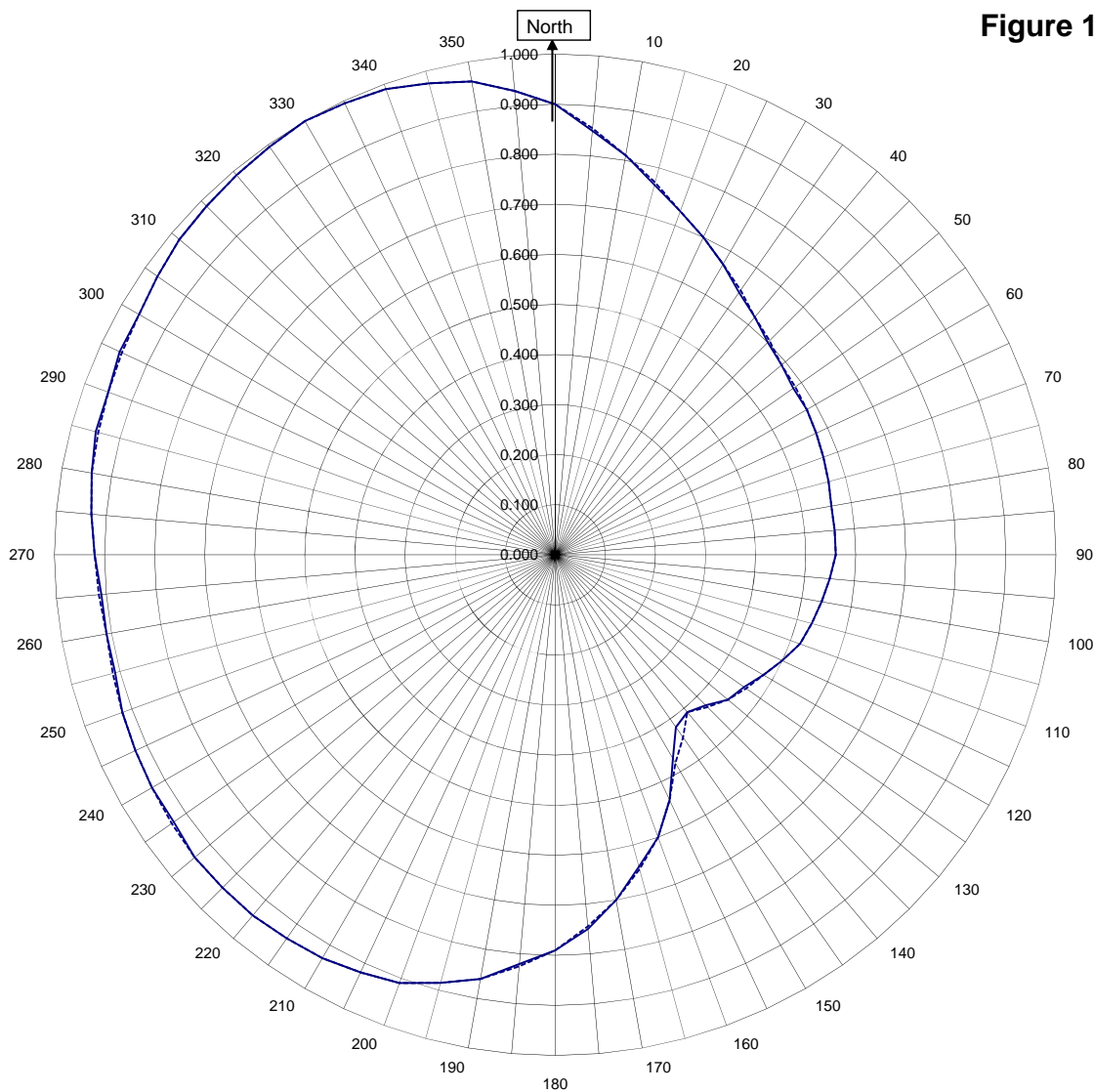
Horizontal RMS	0.753	Frequency	88.5 / 398.25 MHz
Vertical RMS	0.716	Plot	Relative Field
H/V Composite RMS	0.789	Scale	4.5 : 1
FCC Composite RMS	0.790	See Figure 2 for Mechanical Details	

Antenna Model	6810-1R-DA
Pattern Type	Directional Azimuth

# Shively Labs

Shively Labs, a division of Howell Laboratories, Inc. Bridgton, ME (207)647-3327

Figure 1B



**WRRS**      **Middleborough Center, MA**  
28849  
211/2011

—————H/V Composite RMS	0.789
.....FCC Composite RMS	0.790

Frequency	88.5 / 398.25 MHz
Plot	Relative Field
Scale	4.5 : 1
See Figure 2 for Mechanical Details	

Antenna Model	6810-1R-DA
Pattern Type	Directional H/V Composite

Figure 1C

Tabulation of Horizontal Azimuth Pattern  
WRRS Middleborough Center, MA

Azimuth	Rel Field	Azimuth	Rel Field
0	0.900	180	0.620
10	0.810	190	0.700
20	0.730	200	0.750
30	0.670	210	0.790
40	0.620	220	0.810
45	0.600	225	0.820
50	0.590	230	0.830
60	0.580	240	0.850
70	0.570	250	0.880
80	0.560	260	0.900
90	0.560	270	0.920
100	0.540	280	0.940
110	0.520	290	0.950
120	0.480	300	0.960
130	0.450	310	0.980
135	0.425	315	0.985
140	0.410	320	0.990
150	0.410	330	1.000
160	0.460	340	0.990
170	0.540	350	0.960

Figure 1D

Tabulation of Vertical Azimuth Pattern  
WRRS Middleborough Center, MA

Azimuth	Rel Field	Azimuth	Rel Field
0	0.810	180	0.790
10	0.720	190	0.860
20	0.630	200	0.910
30	0.520	210	0.930
40	0.420	220	0.940
45	0.370	225	0.940
50	0.340	230	0.940
60	0.270	240	0.930
70	0.230	250	0.920
80	0.210	260	0.910
90	0.180	270	0.900
100	0.150	280	0.900
110	0.150	290	0.900
120	0.190	300	0.910
130	0.270	310	0.920
135	0.300	315	0.930
140	0.360	320	0.930
150	0.470	330	0.930
160	0.600	340	0.920
170	0.700	350	0.870

Figure 1E

Tabulation of Composite Azimuth Pattern  
WRRS Middleborough Center, MA

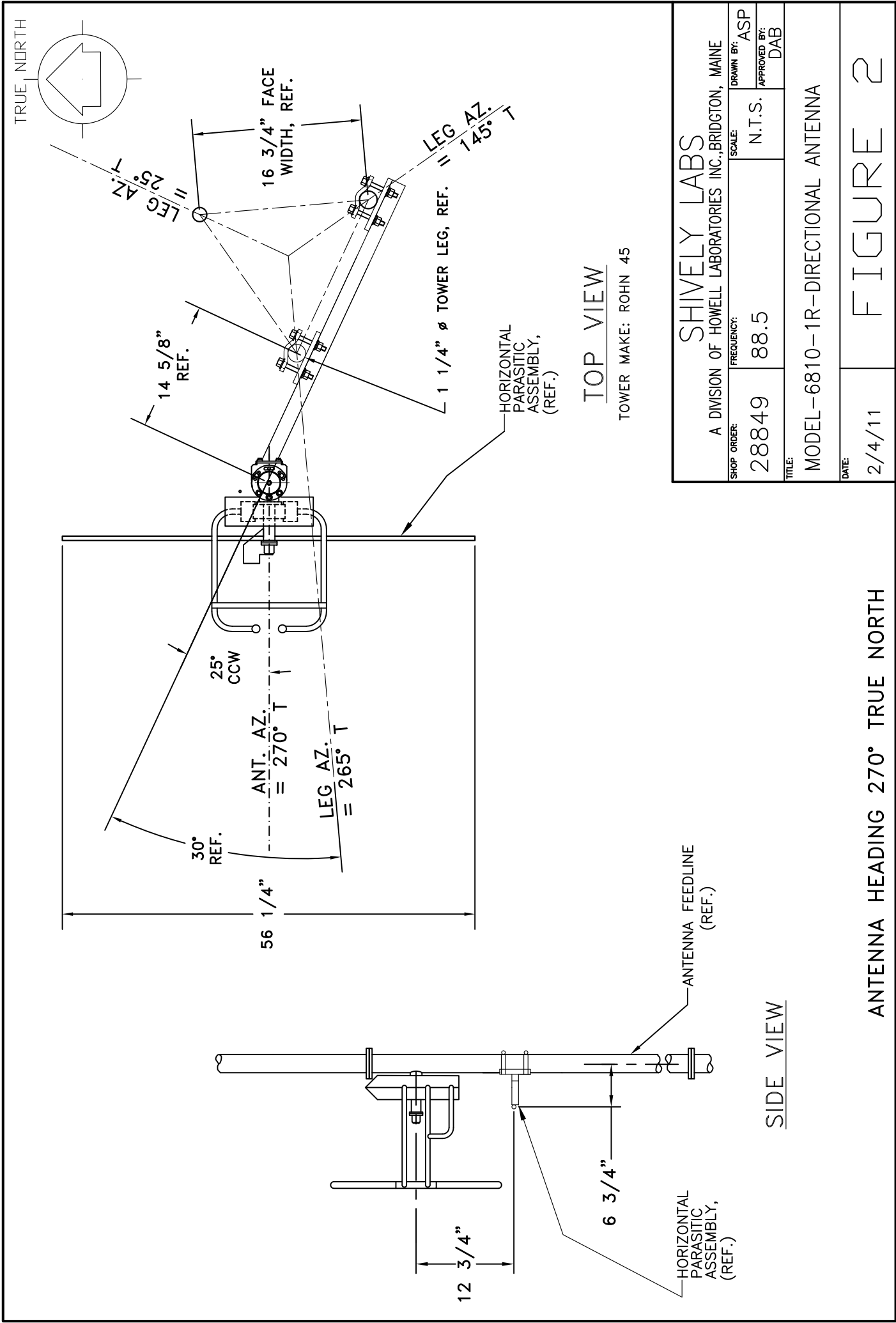
Azimuth	Rel Field	Azimuth	Rel Field
0	0.900	180	0.790
10	0.810	190	0.860
20	0.730	200	0.910
30	0.670	210	0.930
40	0.620	220	0.940
45	0.600	225	0.940
50	0.590	230	0.940
60	0.580	240	0.930
70	0.570	250	0.920
80	0.560	260	0.910
90	0.560	270	0.920
100	0.540	280	0.940
110	0.520	290	0.950
120	0.480	300	0.960
130	0.450	310	0.980
135	0.425	315	0.985
140	0.410	320	0.990
150	0.470	330	1.000
160	0.600	340	0.990
170	0.700	350	0.960

Figure 1F

Tabulation of FCC Directional Composite  
WRRS Middleborough Center, MA

Azimuth	Rel Field	Azimuth	Rel Field
0	0.900	180	0.790
10	0.810	190	0.860
20	0.730	200	0.910
30	0.670	210	0.930
40	0.620	220	0.940
50	0.590	230	0.940
60	0.580	240	0.930
70	0.570	250	0.920
80	0.560	260	0.910
90	0.560	270	0.920
100	0.540	280	0.940
110	0.520	290	0.950
120	0.480	300	0.960
130	0.450	310	0.980
140	0.410	320	0.990
150	0.480	330	1.000
160	0.600	340	0.990
170	0.700	350	0.960





ANTENNA HEADING 270° TRUE NORTH

Antenna Mfg.: Shively Labs  
Antenna Type: 6810-1R-DA

Date: 2/14/2011

Station: WRRS

Frequency: 88.5

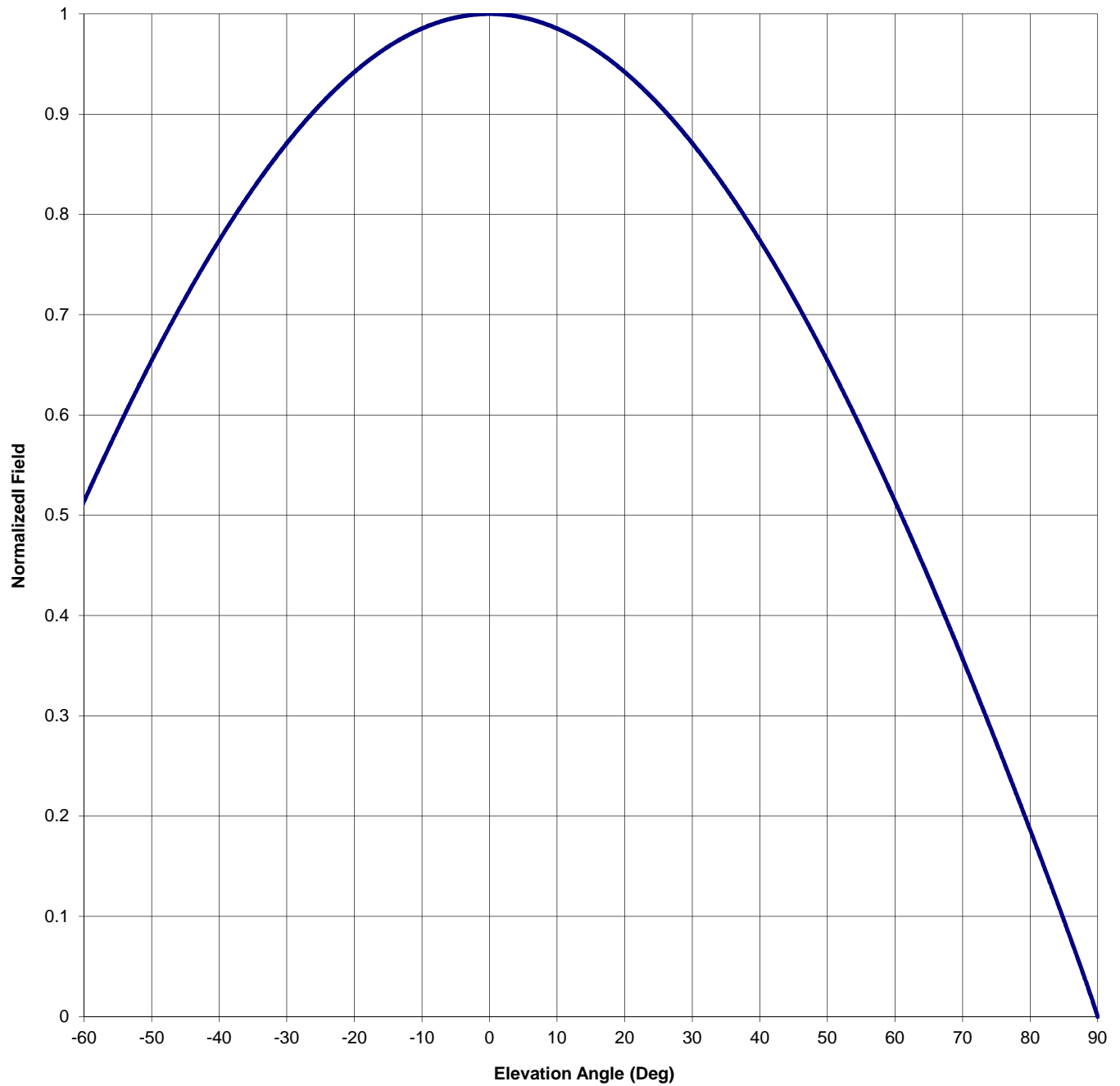
Channel #: 203

Figure: 3

Beam Tilt 0

Gain (Max) 0.842 -0.745 dB

Gain (Horizon) 0.842 -0.745 dB



Antenna Mfg.: Shively Labs

Date: 2/14/2011

Antenna Type: 6810-1R-DA

Station: WRRS

Beam Tilt 0

Frequency: 88.5

Gain (Max) 0.842

-0.745 dB

Channel #: 203

Gain (Horizon) 0.842

-0.745 dB

Figure: 3

Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field
-90	0.000	-44	0.729	0	1.000	46	0.705
-89	0.021	-43	0.741	1	1.000	47	0.693
-88	0.040	-42	0.752	2	0.999	48	0.680
-87	0.059	-41	0.763	3	0.999	49	0.667
-86	0.078	-40	0.774	4	0.998	50	0.654
-85	0.096	-39	0.785	5	0.996	51	0.641
-84	0.114	-38	0.796	6	0.995	52	0.628
-83	0.133	-37	0.806	7	0.993	53	0.614
-82	0.151	-36	0.816	8	0.991	54	0.600
-81	0.168	-35	0.826	9	0.988	55	0.586
-80	0.186	-34	0.835	10	0.985	56	0.572
-79	0.204	-33	0.845	11	0.982	57	0.558
-78	0.221	-32	0.854	12	0.979	58	0.544
-77	0.239	-31	0.862	13	0.975	59	0.529
-76	0.256	-30	0.871	14	0.971	60	0.514
-75	0.273	-29	0.879	15	0.967	61	0.499
-74	0.290	-28	0.887	16	0.963	62	0.484
-73	0.307	-27	0.895	17	0.958	63	0.469
-72	0.324	-26	0.903	18	0.953	64	0.453
-71	0.341	-25	0.910	19	0.948	65	0.437
-70	0.357	-24	0.917	20	0.942	66	0.422
-69	0.373	-23	0.924	21	0.936	67	0.406
-68	0.390	-22	0.930	22	0.930	68	0.390
-67	0.406	-21	0.936	23	0.924	69	0.373
-66	0.422	-20	0.942	24	0.917	70	0.357
-65	0.437	-19	0.948	25	0.910	71	0.341
-64	0.453	-18	0.953	26	0.903	72	0.324
-63	0.469	-17	0.958	27	0.895	73	0.307
-62	0.484	-16	0.963	28	0.887	74	0.290
-61	0.499	-15	0.967	29	0.879	75	0.273
-60	0.514	-14	0.971	30	0.871	76	0.256
-59	0.529	-13	0.975	31	0.862	77	0.239
-58	0.544	-12	0.979	32	0.854	78	0.221
-57	0.558	-11	0.982	33	0.845	79	0.204
-56	0.572	-10	0.985	34	0.835	80	0.186
-55	0.586	-9	0.988	35	0.826	81	0.168
-54	0.600	-8	0.991	36	0.816	82	0.151
-53	0.614	-7	0.993	37	0.806	83	0.133
-52	0.628	-6	0.995	38	0.796	84	0.114
-51	0.641	-5	0.996	39	0.785	85	0.096
-50	0.654	-4	0.998	40	0.774	86	0.078
-49	0.667	-3	0.999	41	0.763	87	0.059
-48	0.680	-2	0.999	42	0.752	88	0.040
-47	0.693	-1	1.000	43	0.741	89	0.021
-46	0.705	0	1.000	44	0.729	90	0.000
-45	0.717			45	0.717		

## VALIDATION OF TOTAL POWER GAIN CALCULATION

WRRS 88.5 Middleborough Center, MA

Model 6810-1R-DA

Elevation Gain of Antenna

0.454

Horizontal RMS value divided by the Vertical RMS value equals the Horiz. - Vert. Ratio

H RMS 0.753

V RMS 0.716

H/V Ratio 1.052

Elevation Gain of Horizontal Component 0.477

Elevation Gain of Vertical Component 0.432

Horizontal Azimuth Gain equals  $1/(\text{RMS})^2$ . 1.764Vertical Azimuth Gain equals  $1/(\text{RMS}/\text{Max Vert})^2$ . 1.724

Max. Vertical 0.94

**\*Total Horizontal Power Gain is the Elevation Gain Times the Azimuth Gain**

Total Horizontal Power Gain = 0.842

**\*Total Vertical Power Gain is the Elevation Gain Times the Azimuth Gain**

Total Vertical Power Gain = 0.744

ERP divided by Horizontal Power Gain equals Antenna Input Power

0.4 kW ERP Divided by H Gain 0.842 equals 0.475 kW H Antenna Input Power

Antenna Input Power times Vertical Power Gain equals Vertical ERP

0.475 kW Times V Gain 0.744 equals 0.353 kW V ERP

Maximum Value of the Vertical Component squared times the Maximum ERP equals the Vertical ERP

(0.94)<sup>2</sup> Times 0.40 Equals 0.353 kW Vertical ERP

NOTE: Calculating the ERP of the Vertical Component by two methods validates the total power gain calculations

FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

Application for a License to Cover

Construction Permit BMPED-20110107ABW

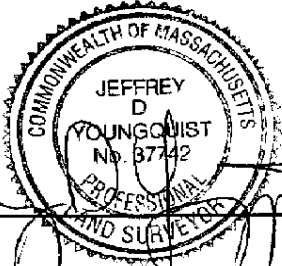
Attachment 1 to Exhibit 9

#### **ANNEX IV**

#### **SURVEYOR'S DECLARATION CONCERNING ANTENNA ORIENTATION**

# AFFIDAVIT

I, Jeffrey D. Youngquist, a Professional Land Surveyor, doing business as Outback Engineering, Inc. at 165 East Grove Street in Middleboro, Ma. does hereby certify that the directional antenna for WRRS-FM has been oriented in the proper azimuth of 270 degrees true north as specified in Shively Labs Installation Drawings 98342 and Figure 2 of Shively Antenna Proof S.O. 28849, which conforms with the specifications of FCC Construction Permit BMPED-20110107ABW.



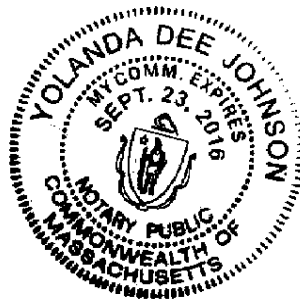
*[Signature]*

Date: 4-10-2012

P.L.S. # Mass. 37742

Notary Stamp

*[Signature: Yolanda Johnson]*



FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

**ANNEX V**  
**DECLARATION OF THE ENGINEER**  
**WHO SUPERVISED THE ANTENNA'S INSTALLATION**

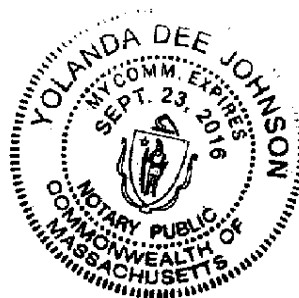
## AFFIDAVIT

I, Steven J. Callahan do hereby certify that I personally supervised the assembly and installation of the directional antenna for WRRS-FM, Middleborough Center, Ma., pursuant to Shively Installation Drawings #98342 for Shop Order 28849 which conforms with the requirements of FCC Construction Permit BMPED-20110107ABW. This installation followed all specifications from the manufacturer and the pointing of the antenna was certified as correct by a professional land surveyor experienced in aiming directional FM antennas.

I have been employed as a Radio Broadcast Engineer for 40 years and am presently a Certified Radio Broadcast Engineer by the Society of Broadcast Engineers. I am the owner and Chief operator of WVBF, Middleborough Center, Ma. and have made numerous technical submissions to the FCC.

Steven J. Callahan

Date: 4/10/12





FCC Form 302-FM

Radio Station WRRS(NCE-FM), Channel 203A,

Middleborough Center, Massachusetts, FCC Facility ID No. 177016

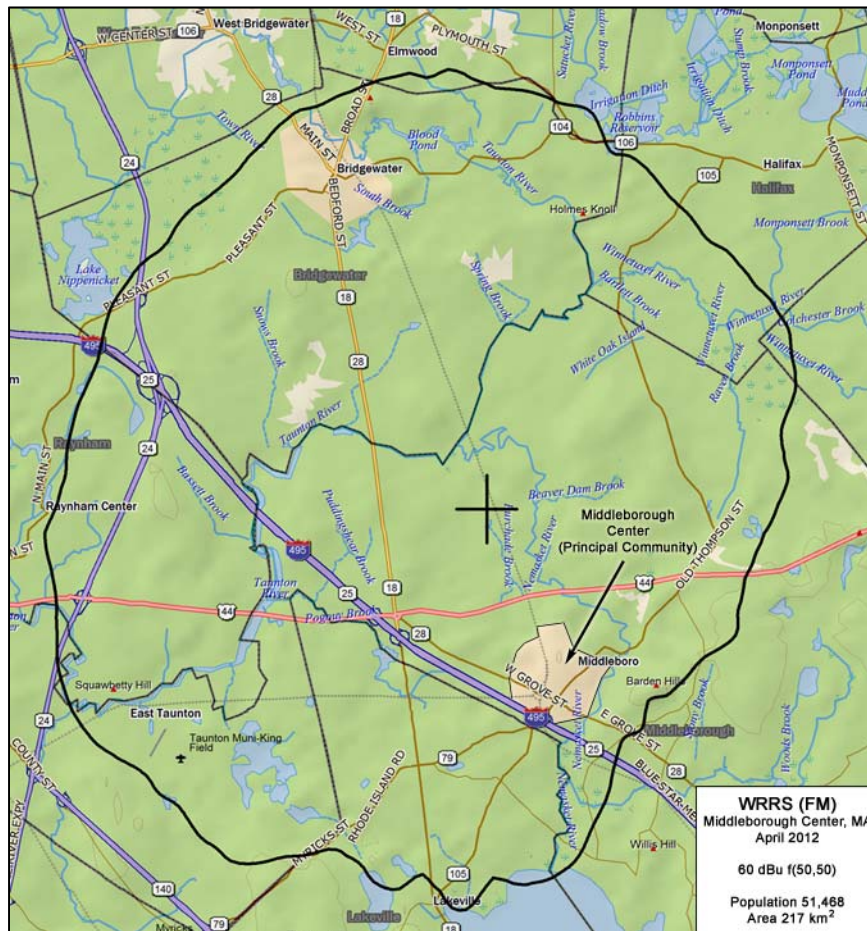
Application for a License to Cover

Construction Permit BMPED-20110107ABW

Attachment 1 to Exhibit 9

**ANNEX VI**  
**DEMONSTRATION OF COMPLIANCE WITH § 73.515**

**Principal Community Coverage**  
**WRRS (FM), Middleborough Center, MA, Facility ID # 177016**



The 60 dBu f(50,50) contour shown on the map above was calculated using the antenna manufacturer's proof of performance submitted elsewhere in this application.

Middleborough Center is completely contained within the 60 dBu f(50,50) contour, satisfying the principal community coverage requirement of 73.515.

-0-

Skywaves Consulting LLC  
 PO Box 4, Millbury, MA 01527

Main Number: 401-354-2400

<http://www.skywaves.com>

Washington: 202-370-6357

[consultants@skywaves.com](mailto:consultants@skywaves.com)