

T Z SAWYER TECHNICAL CONSULTANTS

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COMMUNITY BROADCASTERS, LLC

APPLICATION FOR A  
AM CONSTRUCTION PERMIT

CORRECTS FACILITY GEOGRAPHIC COORDINATES

WHDL (AM)  
1450 KHZ - CLASS C - 1KW ND1  
OLEAN, NEW YORK

FACILITY ID: 2863  
MARCH 2019

ENGINEERING EXHIBIT  
IN SUPPORT OF  
AN APPLICATION FOR AM CONSTRUCTION PERMIT  
STATION WHDL (AM)  
OLEAN, NEW YORK

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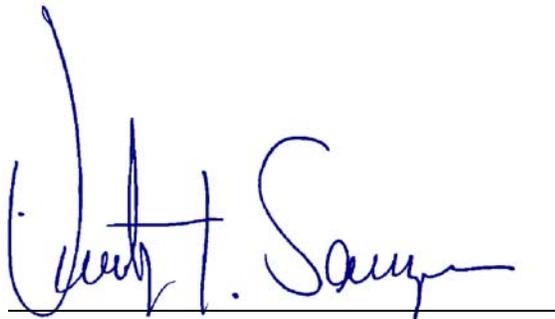
Figure 4, Existing Protected/Interference Contour Overlap Map  
to and from other facilities - No changes are proposed.

DECLARATION OF ENGINEER

I, Timothy Z. Sawyer, declare that I have provided engineering services in the area of telecommunications since 1969. My qualifications are a matter of record with the Federal Communications Commission. I am a senior engineer and principal with the firm of T Z Sawyer Technical Consultants, consulting radio telecommunications engineers with offices in Falls Church, Virginia.

This firm has been retained by COMMUNITY BROADCASTERS, LLC., to prepare this instant engineering exhibit in support of an application to make minor changes to the license authorization of Class C AM broadcast station WHDL, Olean, New York.

All facts contained herein are true of my own knowledge except those stated to be on information and belief, and as to those facts, I believe them to be true. I declare under penalty of perjury that the foregoing is true and correct.



Timothy Z. Sawyer  
Executed on the 1st day of March 2019

COMMUNITY BROADCASTERS, LLC

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OLEAN, NEW YORK

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MARCH 2019

Engineering Statement Narrative

This engineering statement (in narrative form) and the instant exhibit of which it is part has been prepared on behalf of COMMUNITY BROADCASTERS, LLC, licensee of Class C AM broadcast Station WHDL, Olean, New York.

By means of the instant application, the applicant proposes to make minor changes to its station license. The applicant proposes to CORRECT the geographical coordinates of its antenna system only. No other changes are proposed.

Engineering Discussion - Transmitter/Antenna Location

The applicant proposes to CORRECT the geographical coordinates of its existing antenna/tower structure. As part of a due diligent license review, it was discovered that the geographic coordinates as listed on the station license were slightly in error.

As the location of the tower has been in existence for well over 80 years (1936), and the facility has been operating on its assigned frequency of 1450 since late 1941 (78 years) any overlap to other facilities is presumed to be grandfathered overlap and no change in interference to or from other facilities has occurred as no change in antenna location has occurred. The correction in coordinates is administrative, and not a physical movement of the radiator (antenna).

GEOGRAPHICAL COORDINATE CORRECTION SOUGHT

NAD 27 DATUM	LATITUDE (DD-MM-SS.SS)	LONGITUDE (DD-MM-SS.SS)
LICENSE	42-04-39.00 N.	78-28-32.00 W.
CORRECTED	42-04-34.03 N.	78-28-26.35 W.
DEVIATION	- 4.97 SECONDS	-5.65 SECONDS

As the geographical correction in coordinates is slightly greater than 3-seconds in either latitude or longitude, a minor change construction permit application is required. <sup>1</sup>

Figure 1 - FAA Notification and FCC ASR Update

The FAA has been notified and has issued an aeronautical study number of 2019-AEA-1249-OE. The structure is correctly listed in the FAA obstruction database as OAS 36-000145 and has an existing FCC ASR number 1003015. The Wireless Bureau has informed this office that it is unable to update the existing structure ASR until a “fresh” FAA determination has been received. Once the FAA determination has been issued the FCC ASR record for the existing structure can be updated to reflect the minor correction in site coordinates. <sup>2</sup>

Figure - 2 - Topographic Map.

A large scale topographic map is included herein. As the map show, the existing site has been well established on maps (topographical and aeronautical) and is marked upon it.

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<sup>1</sup> Current FCC policy requires that stations wishing to correct their antenna coordinates may do so in a simple one-step license application (FCC Form 302) provided that the amount of correction is 3-seconds or less. All others must do so in a two-step process, first, file FCC Form 301 (construction permit application) and then upon grant file the license application FCC Form 302, step two. In either case, applications that correct antenna coordinates do not require the payment of application processing fees to the FCC.

<sup>2</sup> Electronic correspondence between Timothy Z. Sawyer and Diane Dupert [Diane.Dupert@fcc.gov].

### Figure 3 - Antenna System, Radiator description and Antenna Ground System

A copy of the last license modification, BZ-960402AA (direct measurement of power) authorization is included as Figure 3. A description of the radiator, the RMS of the antenna, and the antenna ground system are detailed in this authorization. There are no changes to the technical parameters to report.

*Item 6:*

*“Antenna and ground system: Vertical, self-supporting, series-excited, tapered steel radiator 91.4 m(159.2°) in height (93.9 m Overall). Theoretical efficiency: 350.84mV/m/kW at 1 km. Ground system consists of 100 equally spaced, buried, copper radials 91.4 m in length, plus a 14.6 m by 14.6 m ground screen.*

### Figure 4 - AM Protected/Interference Contours

A map upon which the protected and interference service contours to and from the facility has been prepared and is included as Figure 4. Again, as there is no change in the existing antenna location, predicted contour overlap already exists to and from other facilities and is neither increased or decreased.

### Environmental Considerations:

The applicant believes its proposal will not significantly affect the environment for the following reasons.

The proposal does not meet any of the criteria specified in Section 1.1307 of the FCC Rules. More specifically, the proposed facilities are not known to fall within any of the categories enumerated in Sections 1.1307(a)(1)-(7) and will not involve the use of high-intensity white lights.

Furthermore, the operation of the facility will not involve the exposure of workers or the general public to levels of radio frequency electromagnetic fields exceeding guidelines adopted by the Federal Communications Commission. The radiator is surrounded by a gated and locked fence enclosure as required by the Commission's rules that restricts access to the tower at distances greater than the OET minimum

recommended distance of 2-meters (6.6 feet) for a radiator greater than 90 electrical degrees but less than 180 electrical degrees at 1450 kilohertz.

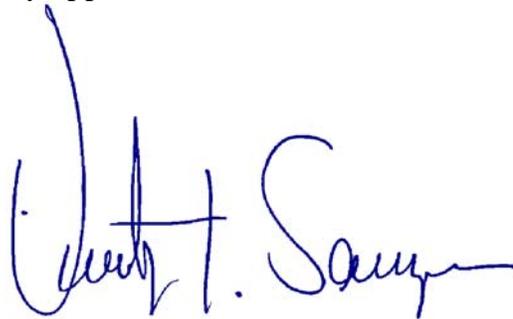
Therefore, the proposal is well within the Commissions standards. The licensee/applicant will comply with the Commissions guidelines and standards.

Access to the tower is restricted, and suitable warning signs are posted. The applicant will reduce power or cease operation as necessary in coordination with any other site users (if any) during periods of maintenance, or installation of equipment.

### Summary

The applicant proposes merely to correct the geographical coordinates of its antenna system by 4.97 seconds in latitude and 5.65 seconds in longitude (200-meters or less). No physical change has occurred to the facility (since 1941). No changes in technical operating parameters are proposed; this is a geographical correction in antenna coordinates only application.

March 1, 2019



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Timothy Z. Sawyer, Consulting Engineer

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e-mail to: tzsawyer@tzsawyer.com

## FAA NOTICE OF COORDINATE CORRECTION - WHDL AM TOWER

### Notice of Proposed Construction or Alteration - Off Airport

faa.gov Tools:  [Print this page](#)

[Add a new Case Off Airport - Desk Reference Guide V\\_2018.2.0](#)

[Add a New Case Off Airport for Wind Turbines - Met Towers - Desk Reference Guide V\\_2018.2.0](#)

**Project Name:** COMMU-000507852-19

#### Project Summary : COMMU-000507852-19

Structure	City, State	Lat/Long	Map	Actions	7460-2 Received	Latest Letter
WHDL AM TOWER Work In Progress 2019-AEA-1249-OE	OLEAN, NY	42° 4' 34.26" N 78° 28' 25.43" W	 <a href="#">Show Map</a>	<a href="#">Clone</a> <a href="#">Upload a PDF</a> <a href="#">Add 7460-2</a>		None

### T Z SAWYER TECHNICAL CONSULTANTS

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

## FAA NOTICE OF EXISTING TOWER COORDINATE CORRECTION 2019-AEA-1249-OE

WHDL (AM)  
OLEAN, NEW YORK

**FIGURE  
1**

FALL CHURCH, VIRGINIA 22043-2555

SIZE

A

CAGE NO

N/A

DWG NO

20190301WHDL.F1

REV

NONE

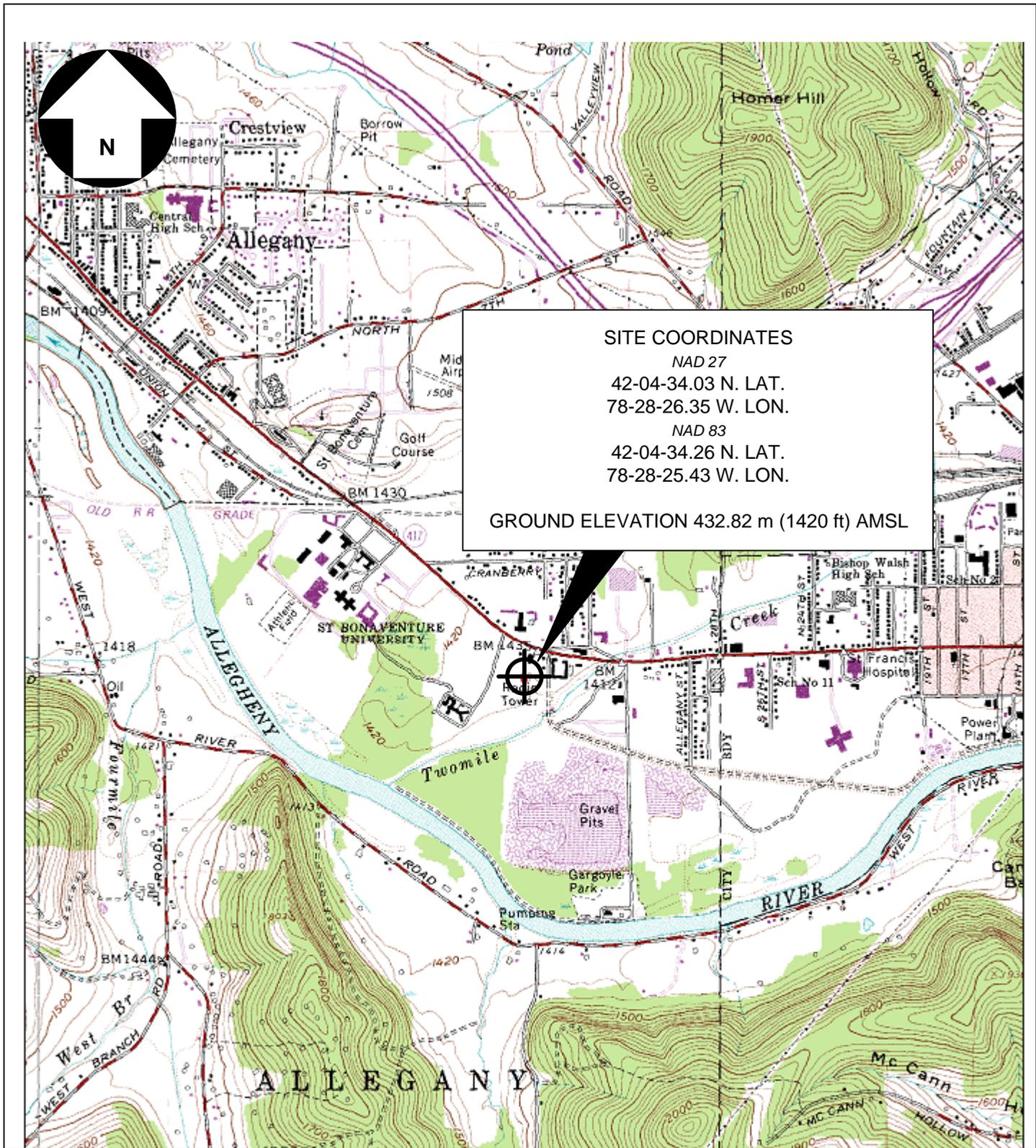
(c) 2019, ALL RIGHTS RESERVED

SCALE

N/A

MARCH 2019

SHEET



<b>T Z SAWYER TECHNICAL CONSULTANTS</b> Tel.: (703) 848-2130 www.tzsastryer.com	<b>TOPOGRAPHIC SITE MAP</b>			
	WHDL (AM) COORDINATE CORRECTION OLEAN, NEW YORK			<b>FIGURE 2</b>
FALL CHURCH, VIRGINIA 22043-2555	SIZE A	CAGE NO N/A	DWG NO 20190301WHDL.F2	REV NONE
(C) 2019, ALL RIGHTS RESERVED	SCALE 1:24,000	MARCH 2019		SHEET

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**AM BROADCAST STATION LICENSE**

\* 2863  
File No. : BZ-960402AA  
Call Sign : W H D L

LICENSEE: Arrow Communications of New York, Inc.

- |   |  |
|---|--|
| <p>1. Community of License. . . . : Olean, NY</p> <p>2. Transmitter location. . . . : 3219 West State Street<br/>Olean, NY</p> <p>North Latitude. . . . . : 42° 04' 39"<br/>West Longitude . . . . . : 78° 28' 32"</p> <p>6. Antenna and ground system:<br/>Vertical, self supporting, series-excited, tapered steel radiator 91.4 m (159.2°) in height (93.9 m Overall). Theoretical efficiency: 350.84 mV/m/kW at 1 km. Ground system consists of 100 equally spaced, buried, copper radials 91.4 m in length, plus a 14.6 m by 14.6 m ground screen.</p> <p>7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: 1, 3, 12 and 21.</p> <p>8. Frequency. . . . . : 1450 kHz</p> <p>9. Nominal power (kW). . . . . : 1.0 Day 1.0 Night</p> <p>Antenna input power (kW):</p> <p style="margin-left: 40px;">1.0 Day <input checked="" type="checkbox"/> Non-directional antenna: current 3.21 amperes: resistance 97 ohms.<br/><input type="checkbox"/> Directional antenna</p> <p style="margin-left: 40px;">1.0 Night <input checked="" type="checkbox"/> Non-directional antenna: current 3.21 amperes: resistance 97 ohms.<br/><input type="checkbox"/> Directional antenna</p> <p>10. Hours of operation : Unlimited.</p> <p>11. Conditions. . . . . : Licensee shall accept such interference as may be imposed by other existing 250 watt Class C stations in the event that they are subsequently authorized to increase power to 1000 watts.</p> | <p>3. Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's rules)</p> <p>4. Main Studio Location: (See Section 73.1125)<br/>3219 West State Street<br/>Olean, NY</p> <p>5. Remote control location</p> |
|---|--|

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,<sup>1</sup> the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time  
June 1, 1998

The Commission reserves the right during said license period of terminating this license or making effective any change, or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period.  
The license is issued on the licensee's representation that the statements contained in the licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.  
This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. This license is subject to the right of control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

<sup>1</sup> This license consists of this page and pages DFL  
Dated: MAY 8 1996

FEDERAL  
COMMUNICATIONS  
COMMISSION



<p><b>T Z SAWYER TECHNICAL CONSULTANTS</b> Tel.: (703) 848-2130 www.tzsawyer.com</p>	<p><b>ANTENNA SYSTEM RADIATOR DESCRIPTION</b> <b>ANTENNA RMS &amp; ANTENNA GROUND SYSTEM</b></p>			
	<p>WHDL (AM) COORDINATE CORRECTION OLEAN, NEW YORK</p>			<p><b>FIGURE 3</b></p>
<p>FALL CHURCH, VIRGINIA 22043-2555</p>	<p>SIZE A</p>	<p>CAGE NO N/A</p>	<p>DWG NO 20190301WHDL.F3</p>	<p>REV NONE</p>
<p>(c) 2019, ALL RIGHTS RESERVED</p>	<p>SCALE NONE</p>	<p>MARCH 2019</p>	<p>SHEET</p>	

WHDL APP  
COORDINATE CORRECTION APPLICATION  
FCC Facility ID: 2863  
Freq: 1450 kHz  
Class: C  
NAD 27 Latitude: 42-04-34.03 N  
NAD 27 Longitude: 078-28-26.35 W  
Power: 1 kW  
Antenna Mode: ND1  
RMS: 350.84 mV/m @1km

1450 KHZ - LOCAL CHANNEL EXISTING OVERLAP  
NO CHANGE IN OVERLAP - SITE CORRECTION ONLY  
FIGURE 4

NO CHANGES IN TECHNICAL OUTPUT PARAMETERS (POWER/RMS)  
-- ONLY CORRECTION IN GEOGRAPHICAL COORDINATES--

EXISTING OVERLAP IS NEITHER REDUCED NOR INCREASED  
AS A RESULT OF CORRECTION IN SITE COORDINATES  
FACILITY HAS BEEN IN OPERATION FOR GREATER  
THAN 70 YEARS AT THE SAME LOCATION - OVERLAP BETWEEN FACILITIES  
REMAINS UNCHANGED, NO PHYSICAL CHANGE IN SITE LOCATION OCCURS

TZSTC  
2019  
FEBRUARY

