Anderson Associates

Broadcast Engineering Consultants

STA REQUEST

WNVL
1240 kHz
Nashville, TN
#16898

WNVL is losing its transmitter site. Therefore, this STA is requested to sustain operation with a temporary facility described fully below while a permanent site is located.

Applicant:

TBLC Media, LLC.
3955 Nolensville Road
Nashville, TN 37221

615-242-1441

MARK@AUFPS.COM

FRN 0022159404

WNVL
1240 kHz
Facility #16898

Certification:

The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002(c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.

Date 07-05-22

Mark Jahbakhsh, CEO

Anderson Associates

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STA
TECHNICAL PARAMETERS

This Technical Report is provided in support of an application for an STA for station WNVL on 1240 kHz at Nashville, TN)FCC facility #16898) to operate a temporary facility while a search is underway for a permanent relocation site. \

An STA is requested to operate at the proposed location at 600 Watts Unlimited using a 150 foot (45.7 meter) vertical long wire attached to an existing registered tower (ASR#1023532). A maximum efficiency of 252.8 mV/m/km/kW is assumed based on a 68.4° tower with a minimal ground system. Since no ground system will be employed here, the efficiency represents a worst case.

The following exhibits are provided:

A- Vertical sketch
B- Map demonstrating that the STA 0.5 mV/m is contained with the licensed 0.5 mV/m
C- RF calculations provided below
D- Figure 8 antenna efficiency
E- ASR

Site:

The proposed site is located at: **N 36-14-05.7 W 86-45-19.3 (NAD 27).**

RF determination:

The lowest level of the long wire will be installed at 4 meters above ground preventing excessive exposure to the general public. Figures 1 and 2 of OET65A were interpolated for the 0.19λ vertical long wire at a distance of two (2) meters..

Tower λ	V/m	A/m
0.25	37.0	0.4
0.19	342.2 X 0.36 = 123.2 V/m	0.7 X 0.36 = 0.25 A/m
0.10	800.0	1.15

Maximum values are 614 V/m and 1.63 A/m (OET65, Table 1).

Clearly, the proposed operation meets the maximum permissible values at4 meters above ground.

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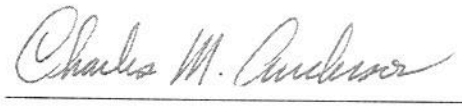
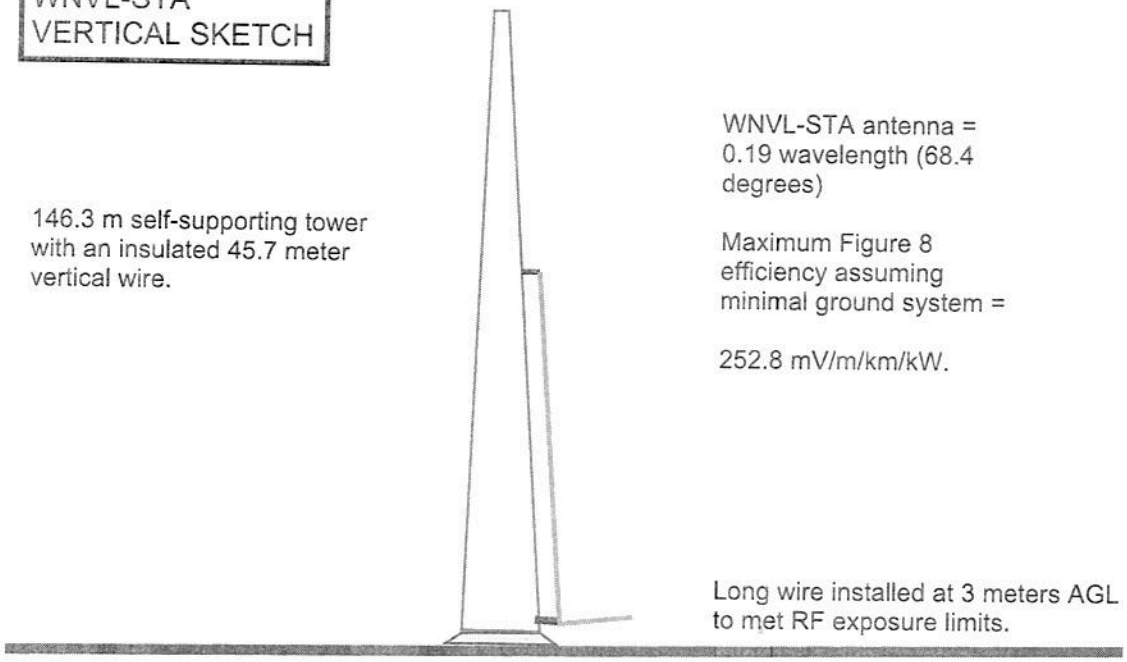


Charles M. Anderson 7-3-2022
1519 Euclid Avenue
Bowling Green, KY 42103
270-535-4432
cmanderson43@yahoo.com

WNVL-STA
VERTICAL SKETCH



ASR#1023532 at 3201 Dickerson Pike, Nashville, TN.

N 36-14-05.7 W 86-45-19.3 (NAD 27)

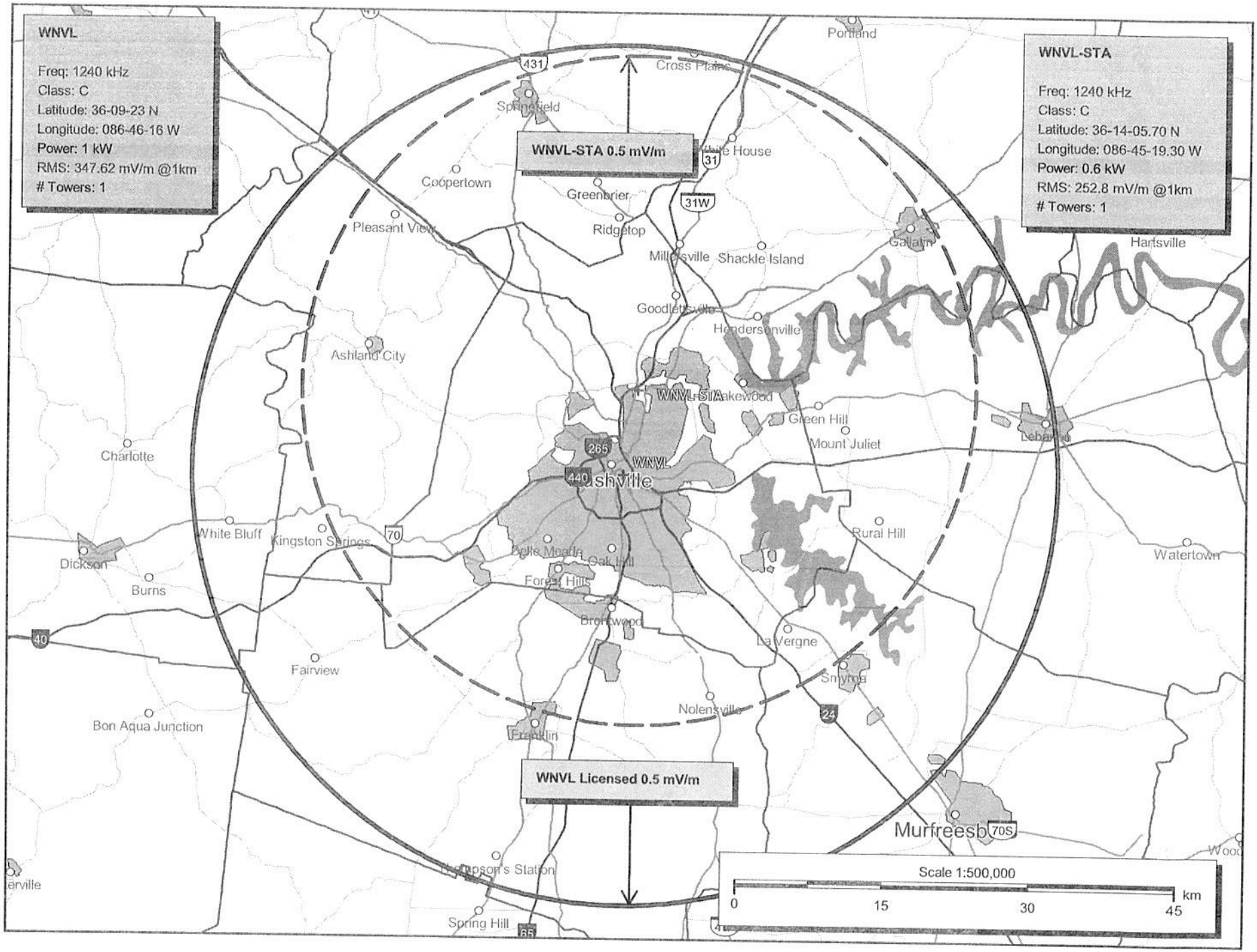

WNVL
Freq: 1240 kHz
Class: C
Latitude: 36-09-23 N
Longitude: 086-46-16 W
Power: 1 kW
RMS: 347.62 mV/m @1km
Towers: 1
WNVL-STA
Freq: 1240 kHz
Class: C
Latitude: 36-14-05.70 N
Longitude: 086-45-19.30 W
Power: 0.6 kW
RMS: 252.8 mV/m @1km
Towers: 1
WNVL-STA 0.5 mV/m
WNVL Licensed 0.5 mV/m
Scale 1:500,000
0
15
30
45
km
Portland
Cross Plains
Springfield
White House
Cooperton
Greenbrier
Ridgetop
Pleasant View
Millersville
Shackle Island
Gallatin
Hartsville
Goodlettsville
Hendersonville
Ashland City
WNVL-STA
Lakewood
Green Hill
Mount Juliet
Charlotte
WNVL
Nashville
White Bluff
Kingston Springs
Dickson
Burns
Belle Meade
Oak Hill
Forest Hills
Brentwood
Rural Hill
Watertown
La Vergne
Smyrna
Fairview
Nolensville
Bon Aqua Junction
Franklin
Murfreesb
Thompson's Station
Spring Hill
431
31
31W
265
440
70
40
24
70S

FIGURE 8 calculates the Inverse Distance Field for AM broadcast stations with frequencies between **530** and **1700 kHz.** This calculator is a computer version of Figure 8 of Section 73.190 of the FCC Rules.

The Inverse Distance Fields calculated here are in **mV/m at 1 kilometer.**

Ground system correction factors **may be incorporated into the following results.**

Input Parameters

Frequency:	1240 kHz
Number of Ground Radials:	90
Correction for number of radials:	-9.6561 mV/m @ 1 kilometer
Average Length of Ground Radials:	37.000 meters 121.391 feet 55.094 degrees 0.1530 wavelengths
Correction factor for length:	-28.9682 mV/m @ 1 kilometer
One Wavelength at 1240 kHz is:	241.768 meters 793.203 feet
Tower Height:	45.700 meters 149.934 feet 68.05 degrees 0.1890 wavelengths

Predicted Field Strength from Figure 8, Section 73.190

(Metric units)

	Theoretical Field	Corrected Field	
At **1.00 kW:**	291.393	252.769	mV/m @ 1 KM
At **0.600 kW:**	225.712	195.794	mV/m @ 1 KM

ASR Registration Search

Registration 1023532

Map Registration

Registration Detail

Reg Number	1023532	Status	Constructed
File Number	A1161352	Constructed	04/19/1996
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type LTOWER - Lattice Tower

Location (in NAD83 Coordinates)

Lat/Long	36-14-05.9 N 086-45-19.3 W	Address	3201 DICKERSON PIKE
City, State	NASHVILLE , TN		
Zip	37216	County	DAVIDSON
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
174.1	146.3
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
320.4	146.3

Painting and Lighting Specifications

FAA Chapters 4, 8, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1L

FAA Notification

FAA Study	2017-ASO-18691-OE	FAA Issue Date	09/29/2017

Owner & Contact Information

FRN	0024512105	Owner Entity Type	Limited Liability Company

Owner

Tarpon Towers II, LLC
Attention To: Todd J Bowman
8916 77th Terrace East
Suite 103
Lakewood Ranch , FL 34202

P: (941)757-5010
F: (941)757-5009
E: tbowman@tarpontowers.com

Contact

Bowman , Todd J
Attention To: Todd J Bowman
8916 77th Terrace East
Suite 103
Lakewood Ranch , FL 34202

P: (941)757-5010
F: (941)757-5009
E: tbowman@tarpontowers.com

Last Action Status

Status	Constructed	Received	03/23/2020
Purpose	Admin Update	Entered	03/23/2020
Mode	Interactive		

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