

**FM Translator W264DT File No. 0000155417
CH 264D – 100.7 MHz – 0.220 kW
Clyde, NC**

**Proposed Amendment
W264DT Minor Modification No. 0000206045
CH 221D – 92.1 MHz – 0.053 kW
Asheville, NC**

January 18, 2023

Technical Narrative

This amended Technical Narrative and attached exhibits were prepared on behalf of Auslator, LLC, (“Auslator”), licensee of FM translator W264DT Facility ID No. 137976, Clyde, North Carolina. Auslator herein is filing an amendment to minor mod application 0000206045 to modify W264DT with proposed operation on non-adjacent channel 221D from a different transmit location. The proposed antenna location is an existing wooden pole 16 meters in overall height that is not registered with an Antenna Structure Registration (ASR) number. The coordinates of the pole are 35-36-02.30 N ~ 082-39-06.40 W. (NAD 83). The area around the site is known as Spivey Mounrtain.

W264DT will be used as a fill-in translator for full power FM station WTMT-FM, Facility ID No. 72070, Weaverville, NC. Auslator has obtained written retransmission consent from Saga Communications of North Carolina, LLC, licensee of WTMT-FM. The modified W264DT would operate on Channel 221D (92.1 MHz) with 53 watts ERP directional with the transmit antenna located at 9 meters height above ground level, 1018 meters AMSL and 305.3 meters HAAT. An exhibit demonstrates that the proposed FCC F(50,50) 60 dBu contour of the proposed W264DT facility is contained within the WTMT FCC F(50,50) 60 dBu contour. Therefore, it is believed that this application is in compliance with Section 74.1201(g) of the Commission’s rules. The Class A FM Channel Study that is included as an exhibit is provided as a convenience to FCC staff to help

identify potential contour protection issues. Section 74.1204 contour protection exhibits are included for co-channel full power FM station WMNC-FM, Channel 221C3, Morganton, NC, co-channel FM translator W221EK, Channel 221D, Greenville, SC, second adjacent channel full power FM station WESC-FM, Channel 223C, Greenville, SC, first adjacent full power FM station WUOT, Channel 220C, Knoxville, TN and W220CD/W219DX construction permit, Channel 219D, Asheville, NC. Applicant respectfully requests a conditional construction permit specifying that W264DT cannot commence operation on Channel 221D until after W219DX has commenced operation on Channel 219D.

This application includes a request for a non-adjacent channel change. An exhibit demonstrates that W264DT qualifies for such a change as defined in FCC 1940 MB Docket No. 18-119.

An exhibit showing compliance with Section 74.1233(a) "Common Overlap" is included. It shows the FCC F(50,50) 60 dBu contours of the licensed and proposed W264DT facilities overlap. Exhibits are included to demonstrate compliance with RF exposure limits and Section 106 (Environmental).

Non-Adjacent Channel Change Request

Auslator, LLC, (“Auslator”) is seeking non-adjacent Channel 221D (92.1 MHz). In FCC 1940 MB Docket No. 18-119 released May 9, 2019, the Commission adopted changes to Section 74.1233(a)(1) which allows an FM translator to change to any available same-band FM channel as a minor change, upon a showing of actual or predicted interference to or from any other broadcast station. The standard established in this policy requires overlap between the FCC F(50,50) 60 dBu contours and the FCC F(50,50) 45 dBu contours of a co-channel or first adjacent channel FM station.

The map included with this exhibit demonstrates that the 45 dBu contour of first adjacent full power FM station WSSL-FM, Channel 263C0, Gray Court, SC does overlap the FCC F(50,50) 60 dBu contour of the W264DT licensed facility.

Therefore, it is believed that the proposed W264DT non-adjacent channel change meets the requirements established in FCC 1940 MB Docket No. 18-119.

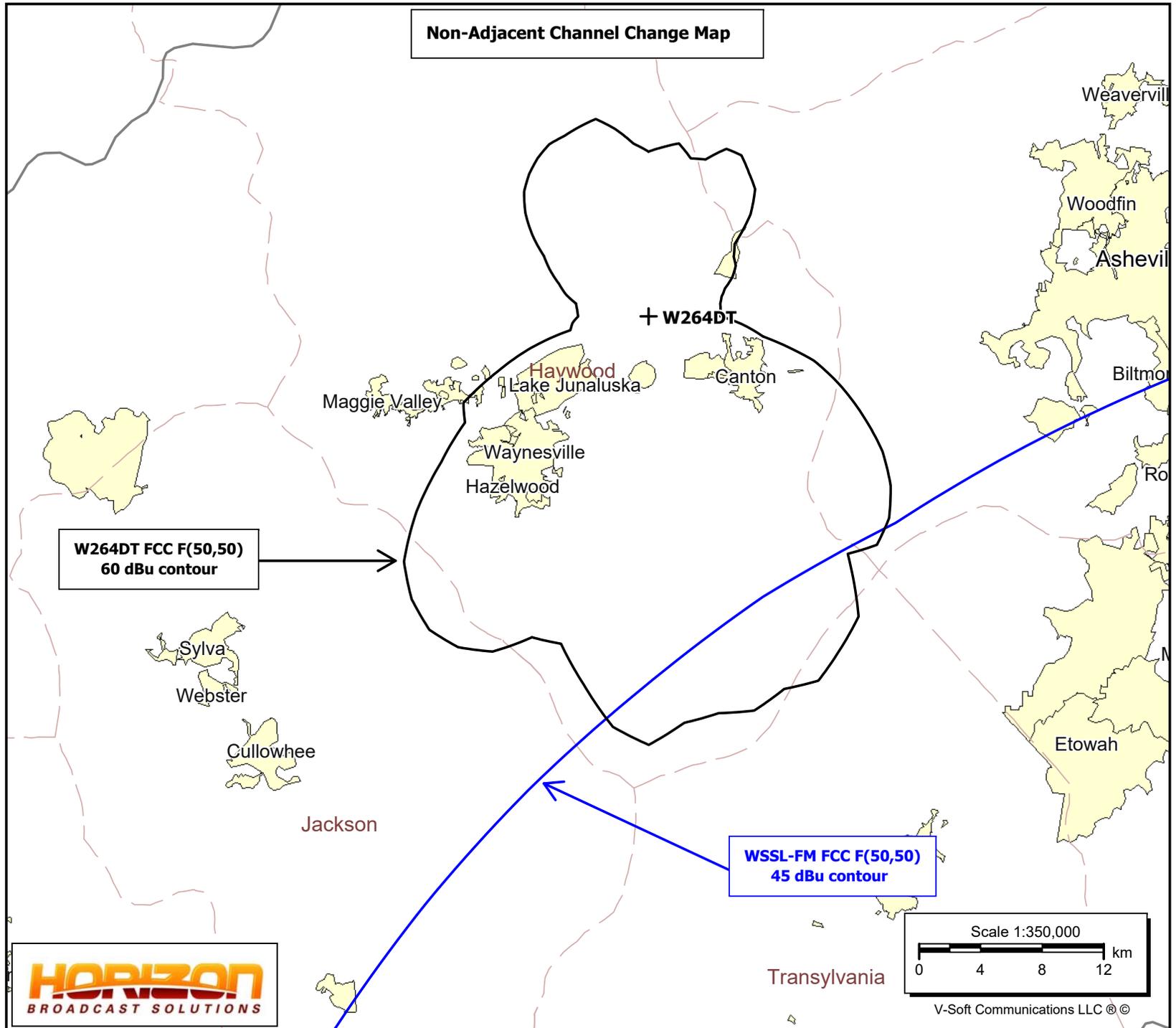
W264DT

Clyde, NC
0000155417
Latitude: 35-34-04.70 N
Longitude: 082-54-25.60 W
ERP: 0.22 kW
HAAT: 0.0
Channel: 264
Frequency: 100.7 MHz
AMSL Height: 1374.0 m
Elevation: 1364.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

WSSL-FM

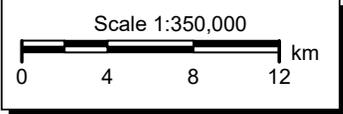
Gray Court, SC
BLH20050923AFT
Latitude: 34-34-18.40 N
Longitude: 082-06-43.40 W
ERP: 100.00 kW
HAAT: 381.0
Channel: 263
Frequency: 100.5 MHz
AMSL Height: 587.0 m
Elevation: 239.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Non-Adjacent Channel Change Map



**W264DT FCC F(50,50)
60 dBu contour**

**WSSL-FM FCC F(50,50)
45 dBu contour**

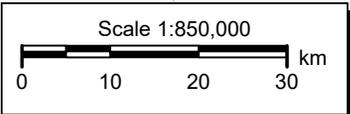
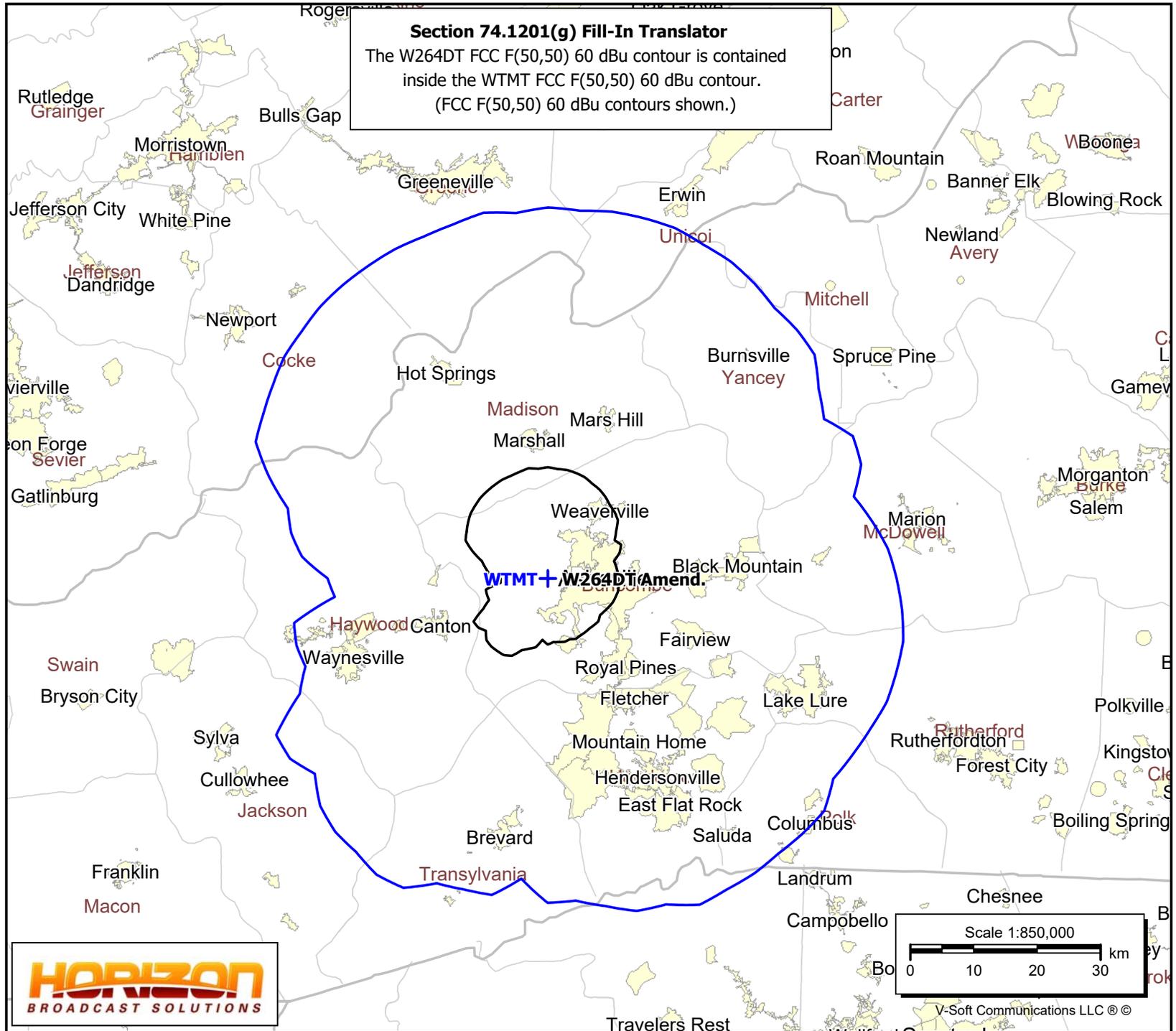


V-Soft Communications LLC ©

W264DT Amend.
 0000206045
 Asheville, NC
 Latitude: 35-36-02.30 N
 Longitude: 082-39-06.40 W
 ERP: 0.053 kW
 HAAT: 302.27
 Channel: 221
 Frequency: 92.1 MHz
 AMSL Height: 1018.0 m
 Elevation: 1009.0 m
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: FCC Model
 Loc. Variability: 50.0%
 Time Variability: 50.0%
 HAAT Mthd: FCC

WTMT
 Weaverville, NC
 BMLH20160926ADS
 Latitude: 35-36-04.30 N
 Longitude: 082-39-06.40 W
 ERP: 9.50 kW
 HAAT: 339.0
 Channel: 290
 Frequency: 105.9 MHz
 AMSL Height: 1064.0 m
 Elevation: 1010.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC Model
 Loc. Variability: 50.0%
 Time Variability: 50.0%
 HAAT Mthd: FCC

Section 74.1201(g) Fill-In Translator
 The W264DT FCC F(50,50) 60 dBu contour is contained inside the WTMT FCC F(50,50) 60 dBu contour.
 (FCC F(50,50) 60 dBu contours shown.)



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W264DT CH221A @ Spivey Channel Study

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REFERENCE                                     DISPLAY DATES
35 36 02.3 N.                                CLASS = A          DATA 01-12-23
82 39 06.4 W.                                Current Spacings to 3rd Adj. SEARCH 01-12-23
----- Channel 221 - 92.1 MHz -----
Call      Channel  Location      Azi      Dist      FCC      Margin
   Lat.    Lng.      Ant      Power
-----
W264DT    APP-D 221D   Asheville      NC  119.9    16.3    84.5    -68.2
  35 31 39.1  82 29 45.1  DCN          0.250 kW  0 M
    Auslator, LLC                                0000206045

WMNC-FM   LIC    221C3  Morganton      NC  78.4     85.9    141.5   -55.6
  35 45 09.5  81 43 18.3  CN          25.000 kW  100 M
    Cooper Broadcasting Compan BLH20081202AFH
Note: See Section 74.1204 Contour Protection: WMNC-FM

WESC-FM   LIC    223C   Greenville     SC  175.6    51.5    94.5   -43.0
  35 08 16.4  82 36 30.4  CN          100.000 kW  610 M
    Ihm Licenses, LLC                        BLH19800811AB
Note: See Section 74.1204 Contour Protection: WESC-FM

W221EK    LIC-D 221D   Greenville     SC  153.7    44.3    84.5   -40.2
  35 14 33.8  82 26 08.3  DCN          0.250 kW  0 M
    Redemption Strategies Broa 0000118151
Note: See Section 74.1204 Contour Protection: W221EK

WUOT      LIC    220C   Knoxville      TN  291.6    124.8   164.5   -39.7
  36 00 19.3  83 56 22.7  CN          81.000 kW  482 M
    University Of Tennessee   BLED20161212ABU
Note: See Section 74.1204 Contour Protection: WUOT

W220CD    LIC    220D   Enka           NC  358.2    0.1     33.5   -33.4
  35 36 04.4  82 39 06.5  CN          0.010 kW  0 M
    CSN International          BLFT20150713ACF
Note: See W219DX construction permit below

W219DX/W2 CP  219D   Asheville      NC  11.1     0.1     25.5   -25.5
  35 36 04.0  82 39 06.0  CN          0.010 kW  0 M
    CSN International          0000191074
Note: See Section 74.1204 Contour Protection: W219DX/W220CD

WGYT-LP   LIC    221L1  Greer          SC  150.2    82.2    66.5    15.7
  34 57 28.1  82 12 09.1  CN          0.100 kW  8 M
    Tyger River Radio         BLL20161206AAA

WLHR-FM   CP -Z 221A   Lavonia        GA  196.3    142.5   114.5   28.0
  34 22 03.2  83 05 21.6  ZCN         5.700 kW  103 M
    Lake Hartwell Radio, Inc. 0000149424

WLHR-FM   LIC-N 221A   Lavonia        GA  196.3    142.5   114.5   28.0
  34 22 03.1  83 05 21.5  NCN         4.200 kW  113 M
    Lake Hartwell Radio, Inc. BLH20110719AAN

WHCB      LIC    218C1  Bristol        TN  26.5     103.6   74.5    29.1
  36 26 03.3  82 08 02.4  CN          1.500 kW  715 M
    Appalachian Educational Co BLED19930210KD

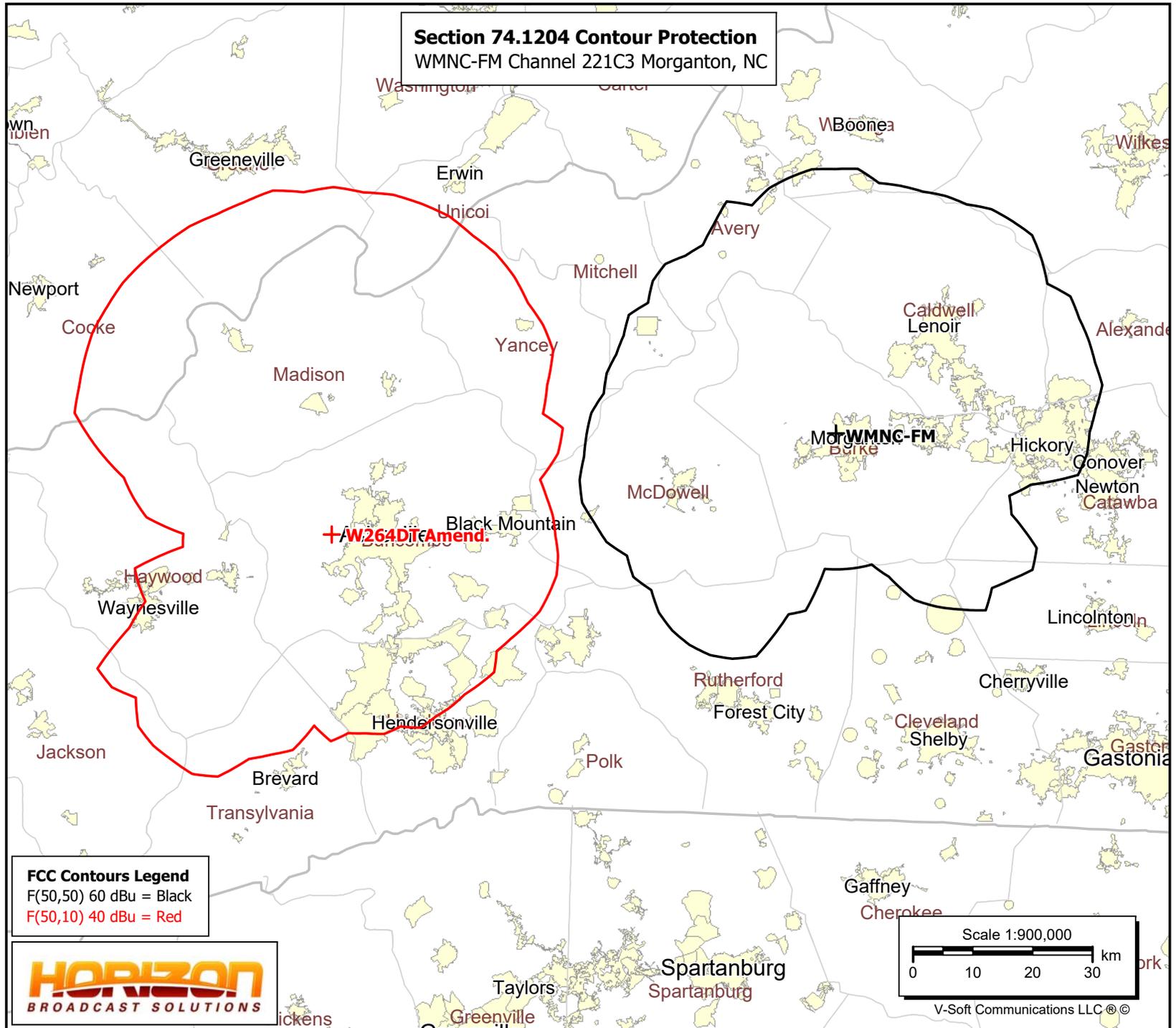
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Call	Channel	Location	Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power	HAAT		
WXPS-LP 34 57 55.4	LIC 221L1 81 56 02.4	Spartanburg CN Truth Chapel World Evangel	SC 137.1 0.039 kW BLL20150313ABL	96.1 47 M	66.5	29.6
W221EC 36 33 57.3	LIC 221D 82 09 26.4	Bristol CN Mountain Music Ministries,	TN 22.3 0.250 kW 0000108772	116.0 0 M	84.5	31.5
W218AB 35 22 01.3	LIC 218D 83 13 17.5	Sylva CN Western North Carolina Pub	NC 243.4 0.010 kW BLFT20170113ABM	57.8 0 M	25.5	32.3
WTBI-FM 34 49 51.4	LIC 218C2 82 26 54.4	Greenville CN Tabernacle Baptist Bible C	SC 167.8 22.500 kW BLED20071214ADL	87.4 128 M	54.5	32.9
W222AN 35 59 52.3	LIC-D 222D 83 13 13.6	Newport DCN Bristol Broadcasting Compa	TN 310.9 0.250 kW BLFT20110630AGW	67.7 127 M	33.5	34.2
W275BU 35 27 43.3	LIC-D 275D 83 06 25.5	Waynesville DCN Western North Carolina Pub	NC 249.6 0.125 kW BLFT20180406ABE	44.1 0 M	9.5	34.6
W222AG 36 16 07.4	LIC 222D 82 20 20.5	Johnson City CN Bristol Broadcasting Compa	TN 20.7 0.021 kW BLFT20070417AAK	79.3 402 M	33.5	45.8
WHRT-FM 34 21 26.4	LIC-N 220C3 82 09 13.4	Cokesbury NCN Radio Training Network, In	SC 161.7 20.500 kW BLED20110808AFD	145.2 108 M	88.5	56.7
WDIC-FM 37 08 42.3	LIC 221A 82 23 21.5	Clinchco CN Dickenson County Broadcast	VA 7.7 2.500 kW BLH19920212KE	173.0 154 M	114.5	58.5
W221EO 34 59 49.5	LIC 221D 81 15 08.3	York CN Richburg Educational Broad	SC 117.4 0.013 kW BLFT20190816AAQ	143.8 0 M	84.5	59.3

W264DT Amend.
0000206045
Asheville, NC
Latitude: 35-36-02.30 N
Longitude: 082-39-06.40 W
ERP: 0.053 kW
HAAT: 302.27
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 1018.0 m
Elevation: 1009.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

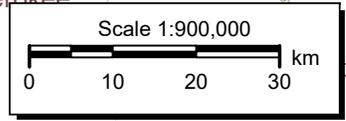
WMNC-FM
Morganton, NC
BLH20081202AFH
Latitude: 35-45-09.50 N
Longitude: 081-43-18.30 W
ERP: 25.00 kW
HAAT: 100.0
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 478.0 m
Elevation: 367.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Section 74.1204 Contour Protection
WMNC-FM Channel 221C3 Morganton, NC



FCC Contours Legend
F(50,50) 60 dBu = Black
F(50,10) 40 dBu = Red

HORIZON
BROADCAST SOLUTIONS



V-Soft Communications LLC ©

Section 74.1204 Contour Protection to WESC-FM

This comprehensive exhibit has been prepared to demonstrate that the proposed modification to W264DT will not cause prohibited interference to second adjacent full power FM station WESC-FM, Channel 223C0. Greenville, South Carolina. This statement demonstrates that a lack of population and/or other factors allow this proposal to be compliant with Section 74.1204. The process commonly called “Living Way,” allows for the use of U/D Analysis, also known as “signal strength ratio methodology.” In this instant case the facilities to be protected are second adjacent and are to be afforded protection from signals 40 dB stronger than they present in the location of the proposed antenna location.

The WESC-FM F(50,50) protected contour at the proposed W264DT application site is 75.3 dB μ . The proposed W264DT F(50,10) interfering contour with respect to WESC-FM is the 115.3 dB μ contour. Using the FCC's FM propagation curves program (see attached), the 115.3 dB μ contour was calculated to extend 88 meters at most. There are no occupied buildings within 88 meters of the antenna. The attached Google Earth screenshot shows the proposed W264DT F(50,10) 115.3 dB μ contour in yellow. The contour does not reach any areas where there are occupied buildings.

Therefore, it is believed the proposed W264DT facility is in compliance with FCC Section 74.1204 contour protection with respect to WESC-FM.

W264DT Amend.
0000206045
Asheville, NC
Latitude: 35-36-02.30 N
Longitude: 082-39-06.40 W
ERP: 0.053 kW
HAAT: 302.27
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 1018.0 m
Elevation: 1009.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

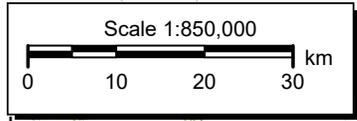
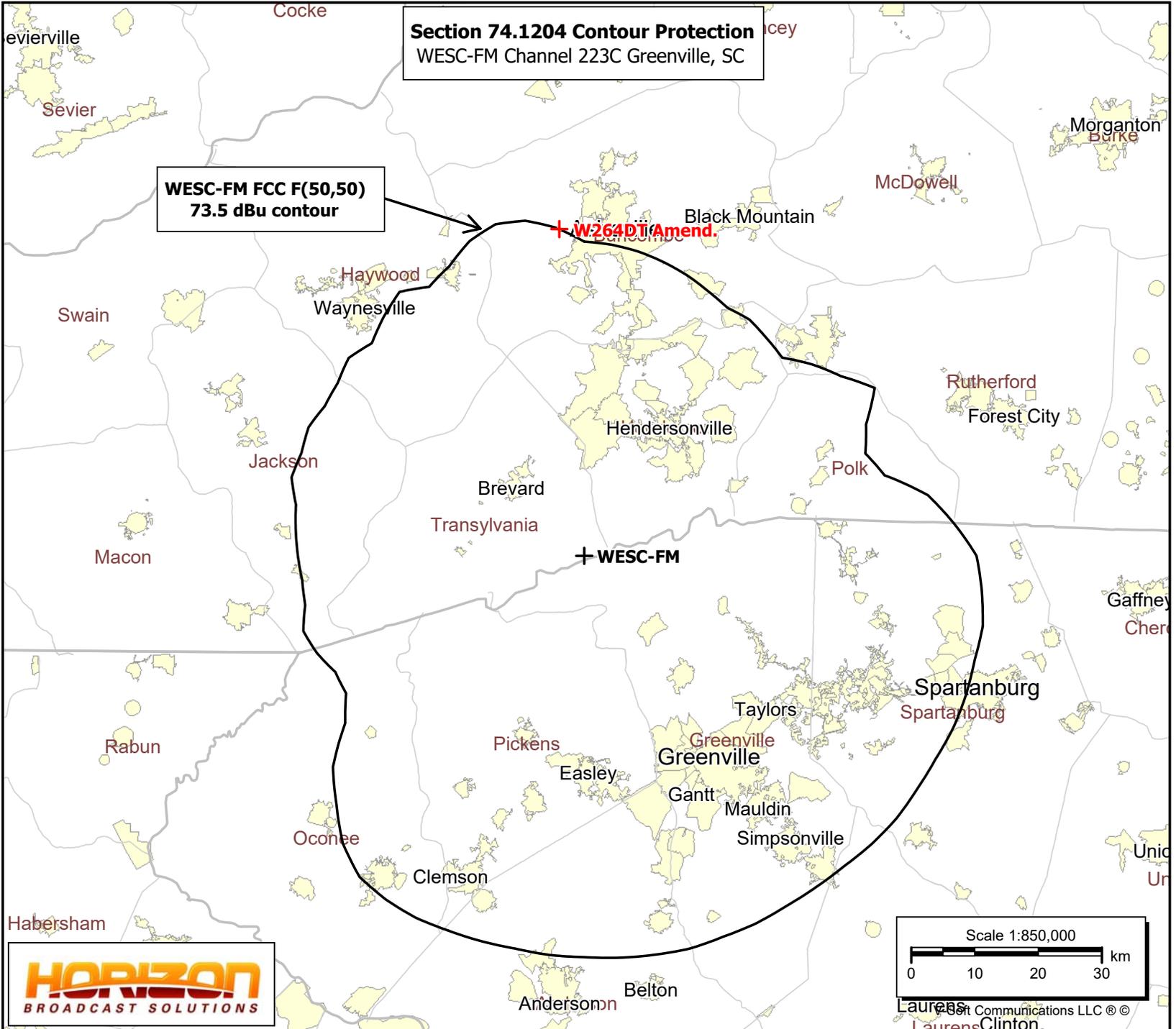
WESC-FM
Greenville, SC
BLH19800811AB
Latitude: 35-08-16.40 N
Longitude: 082-36-30.40 W
ERP: 100.00 kW
HAAT: 610.0
Channel: 223
Frequency: 92.5 MHz
AMSL Height: 1274.0 m
Elevation: 902.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Section 74.1204 Contour Protection
WESC-FM Channel 223C Greenville, SC

WESC-FM FCC F(50,50)
73.5 dBu contour

W264DT Amend.

WESC-FM



Laurens Communications LLC ©
Laurens, Clinton

FM and TV Propagation Curves

Databases & Searches

AM Query

Antenna Height Above Average Terrain (HAAT) Calculator

Antenna Structure Registration (ASRN) Records Within A Radius

Broadcast Station Mailing Address Search

CDBS Database Public Files

Children's Educational Television Reporting - Form 2100, Schedule H

Children's Programming Query

COLORIT HTML Color Generator

Degrees Minutes Seconds to/from Decimal Degrees

Distance and Azimuths Between Two Sets of Coordinates

Electioneering Communications Database

EEO Filing Search

This Javascript calculator uses the FM or TV propagation curves to find the distance to a service or interfering contour, or the corresponding field strength at a given contour distance. [More after the form.](#)

Select Contour Type:

Select Channel Range: (not TV Virtual Channel)

Find This:

ERP (kW) Distance (km)

HAAT (meters) Field (dBu)

Results:

Calculated Distance = **0.088 km**

Free Space equation used to compute distance.

W264DT Amendment Transmitter Site at Spivey Mountain, NC
Contour Protection to WESC-FM Channel 223C Greenville, NC
115.3 dBu interfering contour extends 88 meters.
There will be no population or occupied buildings reached.

F(50,10) 115.3 dBu contour

W264DT Amend.

Nearest occupied building →

Dover Crane & Construction

Google Earth

776 ft

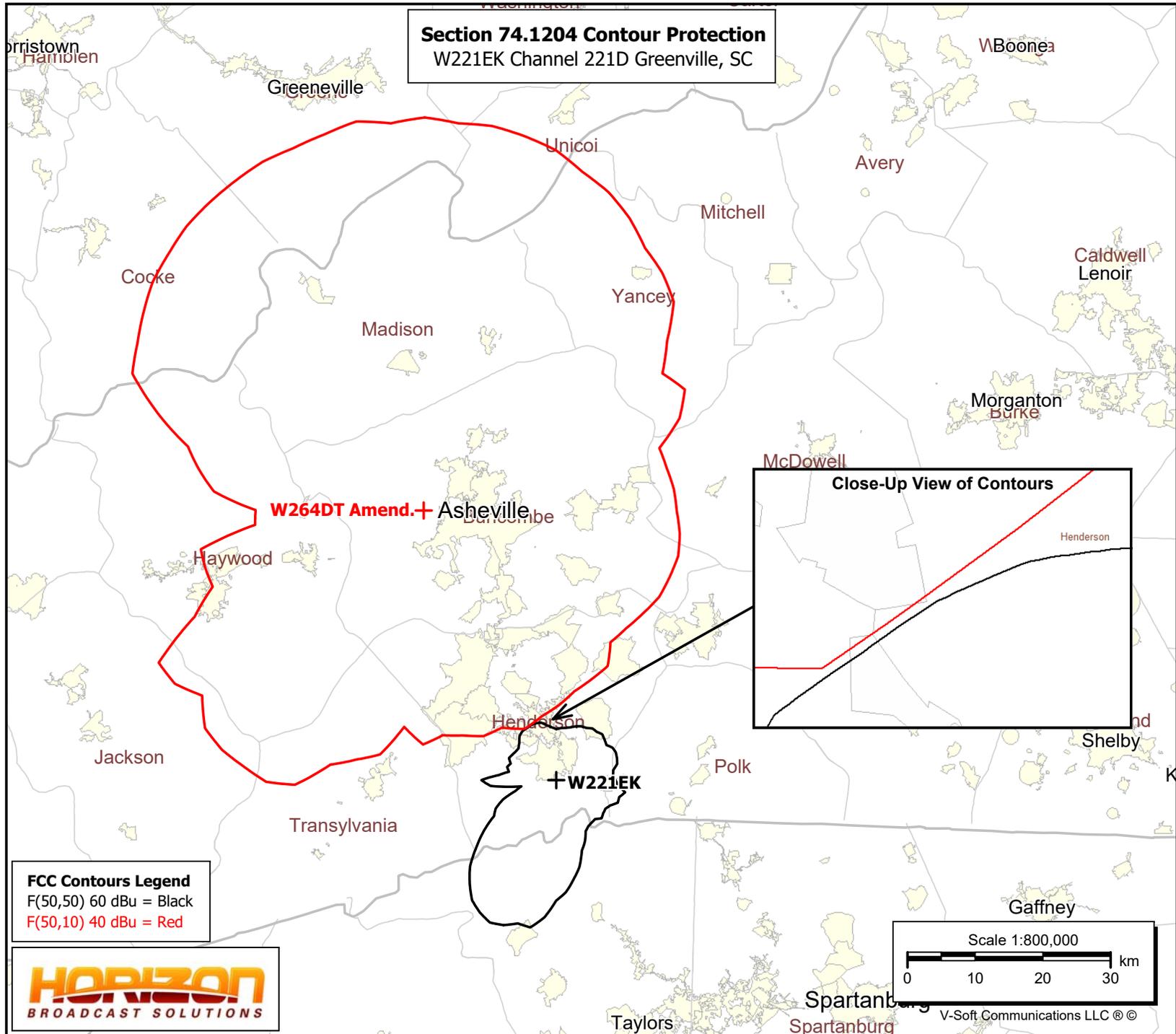
1985

35°36'00.99" N 82°39'02.28" W elev 3176 ft eye alt 5700 ft

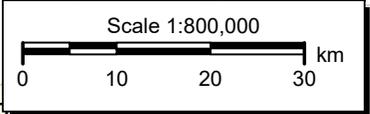
W264DT Amend.
0000206045
Asheville, NC
Latitude: 35-36-02.30 N
Longitude: 082-39-06.40 W
ERP: 0.053 kW
HAAT: 302.27
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 1018.0 m
Elevation: 1009.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

W221EK
Greenville, SC
0000118151
Latitude: 35-14-33.80 N
Longitude: 082-26-08.30 W
ERP: 0.25 kW
HAAT: 0.0
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 936.0 m
Elevation: 898.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Section 74.1204 Contour Protection
W221EK Channel 221D Greenville, SC



FCC Contours Legend
F(50,50) 60 dBu = Black
F(50,10) 40 dBu = Red

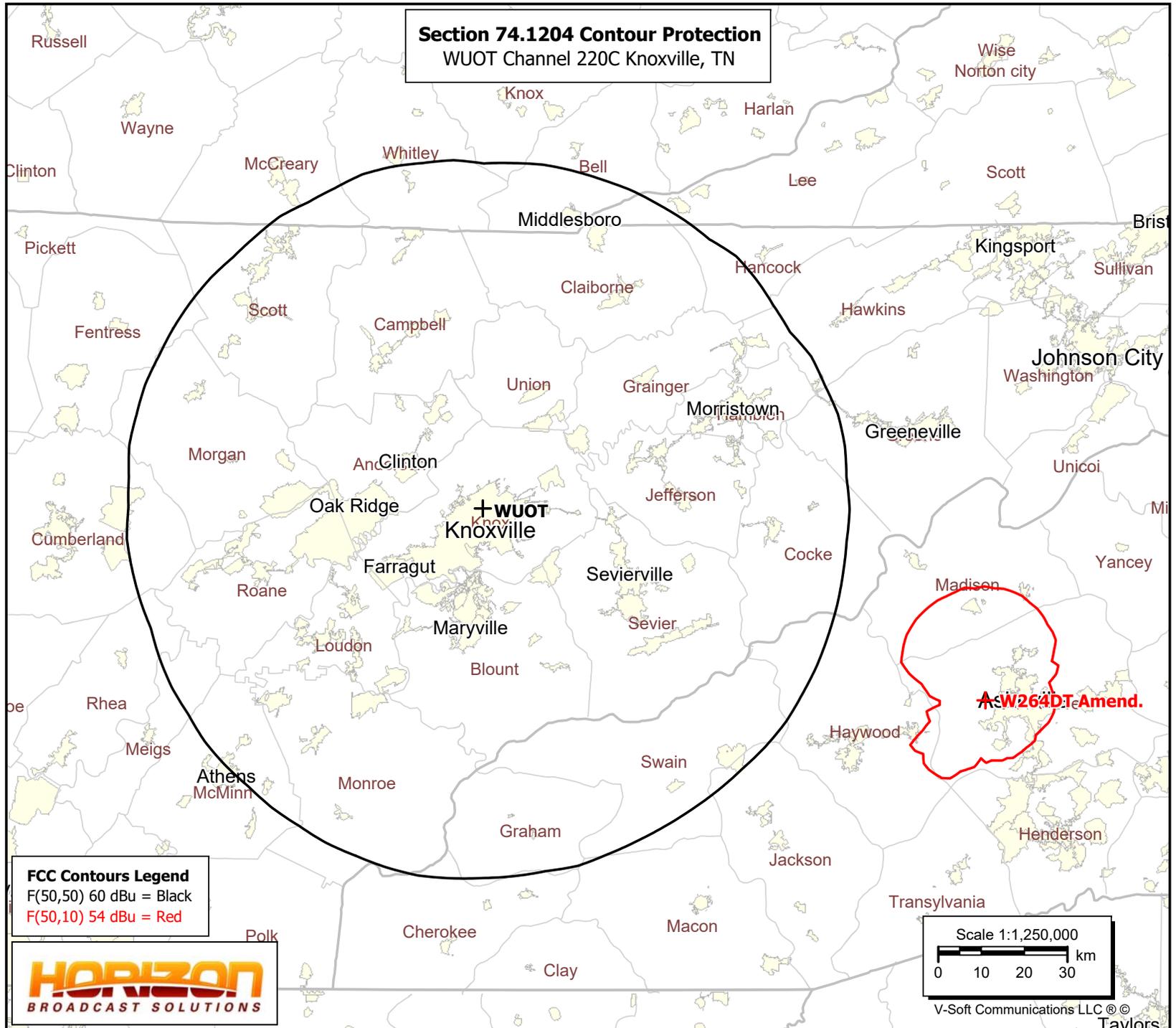


V-Soft Communications LLC ©

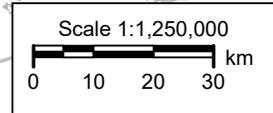
W264DT Amend.
 0000206045
 Asheville, NC
 Latitude: 35-36-02.30 N
 Longitude: 082-39-06.40 W
 ERP: 0.053 kW
 HAAT: 302.27
 Channel: 221
 Frequency: 92.1 MHz
 AMSL Height: 1018.0 m
 Elevation: 1009.0 m
 Horiz. Pattern: Directional
 Vert. Pattern: No
 Prop Model: FCC Model
 Loc. Variability: 50.0%
 Time Variability: 50.0%
 HAAT Mthd: FCC

WUOT
 Knoxville, TN
 BLED20161212ABU
 Latitude: 36-00-19.30 N
 Longitude: 083-56-22.70 W
 ERP: 81.00 kW
 HAAT: 482.0
 Channel: 220
 Frequency: 91.9 MHz
 AMSL Height: 793.0 m
 Elevation: 410.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC Model
 Loc. Variability: 50.0%
 Time Variability: 50.0%
 HAAT Mthd: FCC

Section 74.1204 Contour Protection
 WUOT Channel 220C Knoxville, TN



FCC Contours Legend
 F(50,50) 60 dBu = Black
 F(50,10) 54 dBu = Red



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 Taylors

Section 74.1204 Contour Protection to W219DT

This comprehensive exhibit has been prepared to demonstrate that the proposed modification to W264DT will not cause prohibited interference to second adjacent FM translator construction permit for W219DX Asheville, NC. This statement demonstrates that a lack of population and/or other factors allow this proposal to be compliant with Section 74.1204. The process commonly called “Living Way,” allows for the use of U/D Analysis, also known as “signal strength ratio methodology.” In this instant case the facilities to be protected are second adjacent and are to be afforded protection from signals 40 dB stronger than they present in the location of the proposed antenna location.

The W219DX F(50,50) protected contour at the proposed W264DT application site is 112.4 dB μ . The proposed W264DT F(50,10) interfering contour with respect to W219DX is the 152.4 dB μ contour. Using the FCC's FM propagation curves program (see attached), the 152.4 dB μ contour was calculated to extend 1 meter from the antenna. The antenna will be mounted 9 meters above ground level and there are no occupied buildings within 300 meters of the antenna.

Therefore, it is believed the proposed W264DT facility is in compliance with FCC Section 74.1204 contour protection with respect to W219DT.

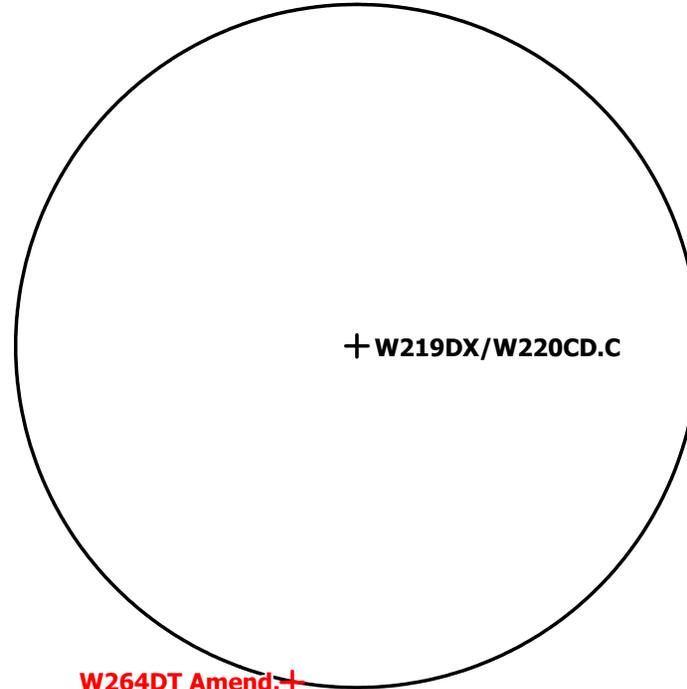
W264DT Amend.

0000206045
Asheville, NC
Latitude: 35-36-02.30 N
Longitude: 082-39-06.40 W
ERP: 0.053 kW
HAAT: 302.27
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 1018.0 m
Elevation: 1009.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Section 74.1204 Contour Protection

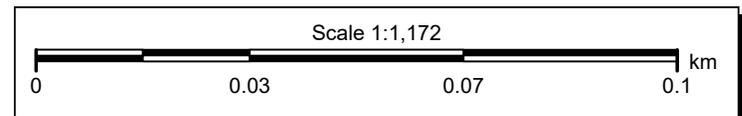
W219DX Channel 219D Asheville, NC

112.4 dBu contour



W219DX/W220CD.C

Asheville, NC
0000191074
Latitude: 35-36-04 N
Longitude: 082-39-06 W
ERP: 0.01 kW
HAAT: 0.0
Channel: 219
Frequency: 91.7 MHz
AMSL Height: 1051.0 m
Elevation: 1010.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC



FM and TV Propagation Curves

Databases & Searches

AM Query

Antenna Height Above Average Terrain (HAAT) Calculator

Antenna Structure Registration (ASRN) Records Within A Radius

Broadcast Station Mailing Address Search

CDBS Database Public Files

Children's Educational Television Reporting - Form 2100, Schedule H

Children's Programming Query

COLORIT HTML Color Generator

Degrees Minutes Seconds to/from Decimal Degrees

Distance and Azimuths Between Two Sets of Coordinates

Electioneering Communications Database

EEO Filing Search

This Javascript calculator uses the FM or TV propagation curves to find the distance to a service or interfering contour, or the corresponding field strength at a given contour distance. [More after the form.](#)

Select Contour Type:	<input type="text" value="F(50,50) Service Contour -- FM and NTSC (analog) TV"/> <input type="text" value="F(50,10) Interfering Contour"/> <input type="text" value="F(50,90) Digital TV Service Contour"/>
Select Channel Range: (not TV Virtual Channel)	<input type="text" value="FM Radio or TV Transmit Channels 2-6"/> <input type="text" value="TV Transmit Channels 7-13"/> <input type="text" value="TV Transmit Channels 14-69"/>
Find This:	<input type="text" value="Field Strength, given a Distance (in km)"/> <input type="text" value="Distance, Given a Field Strength (in dBu)"/> <input type="text" value="FM ERP, given Distance and Field Strength [F(50,50) Service Contour]"/>
<input type="text" value="0.053"/> ERP (kW)	<input type="text" value=""/> Distance (km)
<input type="text" value="303"/> HAAT (meters)	<input type="text" value="152.4"/> Field (dBu)
<input type="button" value="Find Result"/>	<input type="button" value="Clear Form"/>
Results:	
<input type="text" value="Calculated Distance = 0.001 km"/> <input type="text" value="Free Space equation used to compute distance."/>	

W264DT Amend.

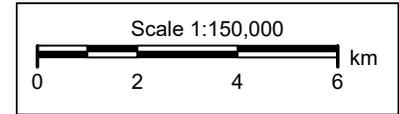
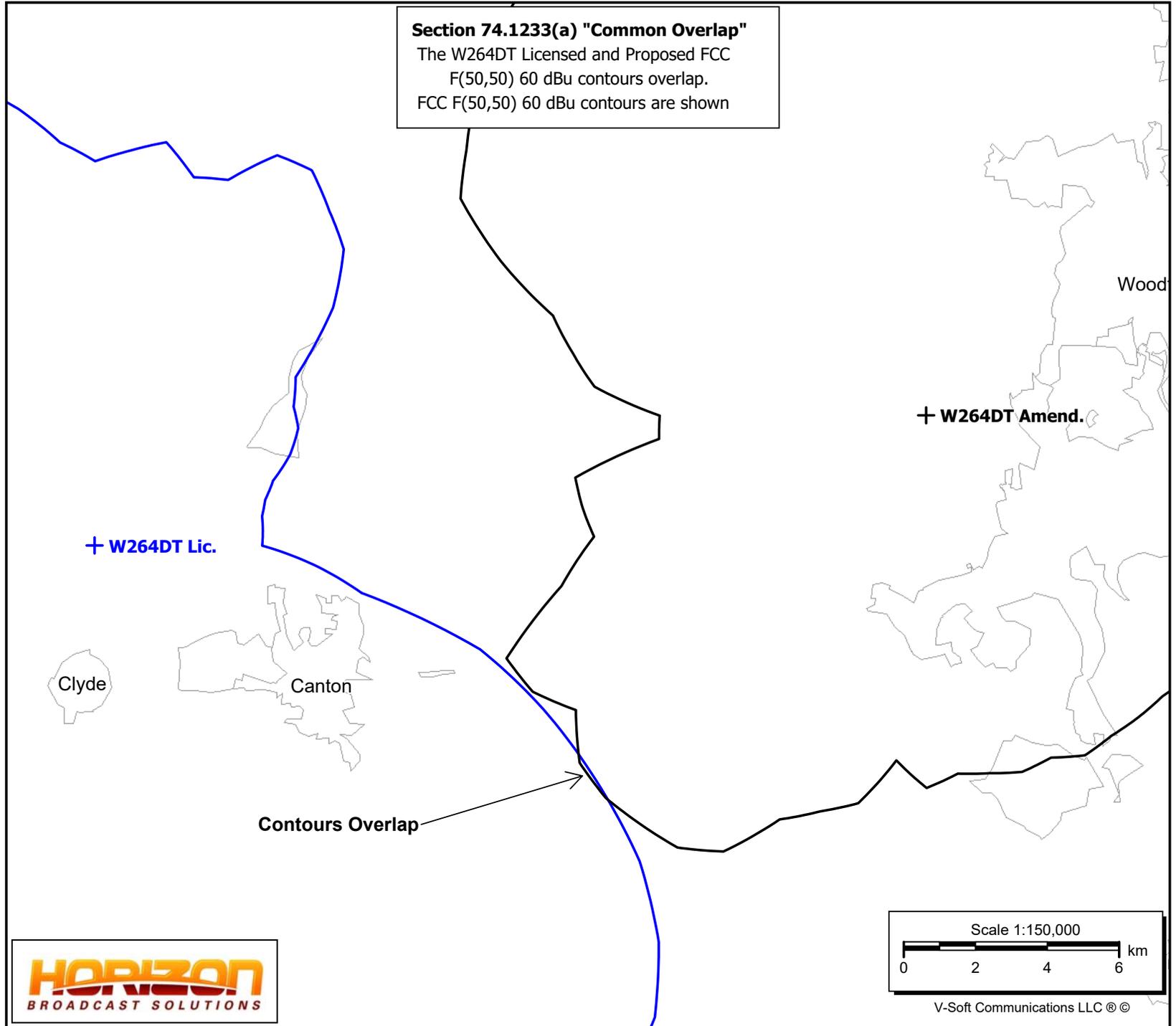
Asheville, NC
Latitude: 35-36-02.30 N
Longitude: 082-39-06.40 W
ERP: 0.053 kW
HAAT: 302.27
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 1018.0 m
Elevation: 1009.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

W264DT Lic.

Clyde, NC
0000155417
Latitude: 35-34-04.70 N
Longitude: 082-54-25.60 W
ERP: 0.22 kW
HAAT: 0.0
Channel: 264
Frequency: 100.7 MHz
AMSL Height: 1374.0 m
Elevation: 1364.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

Section 74.1233(a) "Common Overlap"

The W264DT Licensed and Proposed FCC
F(50,50) 60 dBu contours overlap.
FCC F(50,50) 60 dBu contours are shown



V-Soft Communications LLC ©

Human Exposure to Radiofrequency Electromagnetic Field & Section 106 Compliance (Environmental)

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. 1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. Auslator LLC, ("Auslator"), proposes to modify FM translator W264DT, Facility ID No. 137976, Channel 264D, Clyde, NC. W264DT will simulcast FM station WTMT, Facility ID No. 72070, Weaverville, NC. The proposed W264DT facility would operate on Channel 221D (92.1 MHz) with 53 watts directional with circular polarization from a different transmit location. The transmit location is an existing wooden pole 16 meters in overall height and is located at 35° 36' 02.3" N ~ 82° 39' 06.4" W (NAD 83). The tower is not registered with an Antenna Registration Structure "ASR" number. The proposed antenna is a side mounted PSI Model FMT-6 two bay half wave circularly polarized directional antenna with a center of radiation of 9 meters AGL. W264DT would operate on Channel 221D, 92.1 MHz, with 53 watts ERP directional at 1,018 meters AMSL 305.3 meters HAAT. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of § 1.1306 of the FCC Rules. The proposed W264DT facility would operate from an existing tower and no modifications to the tower are being made. Therefore, it is believed to be exempt from a Section 106 review by the SHPO/THPO.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. The PSI antenna is included in the revised OET FM Model Program under Type 2, Opposed "V" dipole. Using EPA Element Antenna Type 2, the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 7.605 at 13 meters, which is 3.803 percent of the general population/uncontrolled maximum permitted exposure limit. This is below the five percent threshold limit described in 1.1307(b) regarding sites with multiple emitters, which excludes applicant from responsibility for taking any corrective action in areas where the proposal's contribution is less than five percent. This Spivey Mountain communications site is a remote site with restricted access. The road to the site is gated and locked. There nearest occupied building is over 300 meters away and is also approximately 120 meters lower in elevation.

The applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

FM Model

Radio Frequency Safety

FM Model

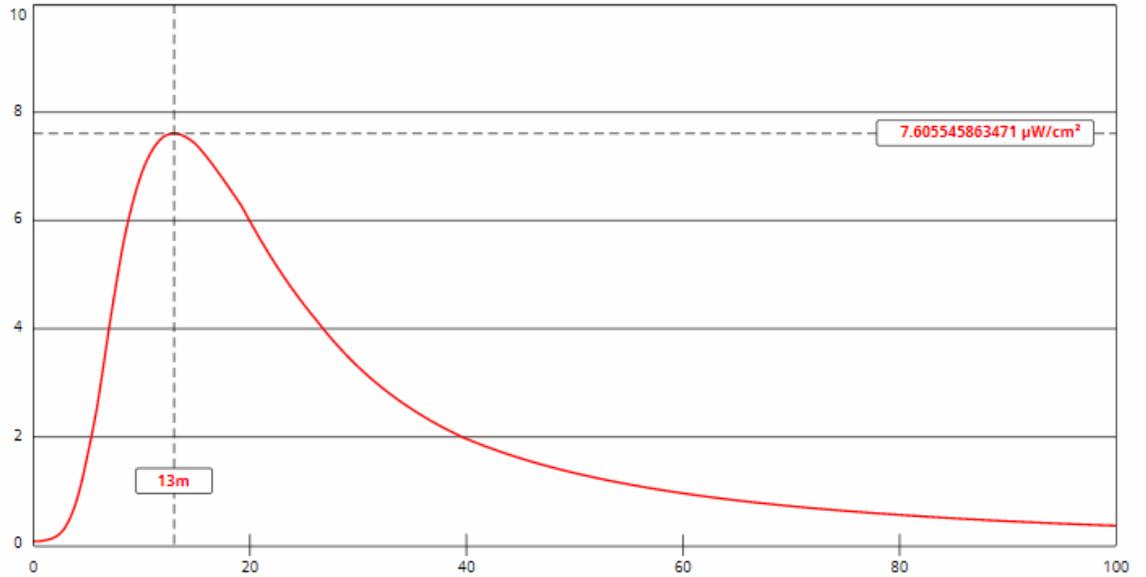
[FCC Policy on Human Exposure](#)

[RF Safety FAQ](#)

[Body Tissue Dielectric Parameters](#)

[RF Safety Highlighted Releases](#)

The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data published in 1985 by the EPA. [Show More...](#)



[View Tabular Results +](#)

Channel Selection	Channel 221 (92.1 MHz) ▼		
Antenna Type +	EPA Type 2: Opposed V Dipole ▼		
Height (m)	<input type="text" value="9"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="53"/>	ERP-V (W)	<input type="text" value="53"/>
Num of Elements	<input type="text" value="2"/>	λ	<input type="text" value="0.5"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	