

**FM Translator W261BG Morrow, GA
Channel 261D (100.1 MHz) 0.005 kW ERP**

**Proposed
Channel 292D (106.3 MHz) 0.038 kW ERP**

March 31, 2022

TECHNICAL NARRATIVE

This Technical Narrative and attached exhibits were prepared on behalf of Radio Training Network, Inc. (“RTN”), licensee of W261BG, Facility ID No. 153974, Morrow, Georgia. FCC 19-40, MB Docket No. 18-119 adopted a proposal to allow FM translator stations to remediate interference either caused to or received from another broadcast station by changing channels to any available same-band frequency as a minor change. RTN herein is filing a minor modification application to operate from non-adjacent channel 292D (106.3 MHz). An exhibit showing compliance with the policies established in FCC Report & Order 19-40 - MB Docket No. 18-119 is included,

The proposed W261BG facility would be used as a fill-in translator for co-owned primary Station WVFJ-FM, Channel 227C0, licensed to Greenville, GA. The proposed facility would operate on Channel 292D (106.3 MHz) with 38 watts non-directional with the transmit antenna located at 117 meters height above ground level and 133.6 meters HAAT. The transmit site is an existing tower 136.2 meters in overall height and registered with FCC Antenna Structure Registration (“ASR”) number 1011975. An exhibit demonstrates that the proposed W261BG FCC F(50,50) 60 dBu contour is contained within the WVFJ-FM 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 channel study is included that assumes a Class A 6 kW facility operating on channel 292 and is provided to help identify potential contour overlap issues. There is no change in the transmit location. Therefore, there is no exhibit demonstrating compliance with FCC Section 74.1233(a) "Common Overlap".

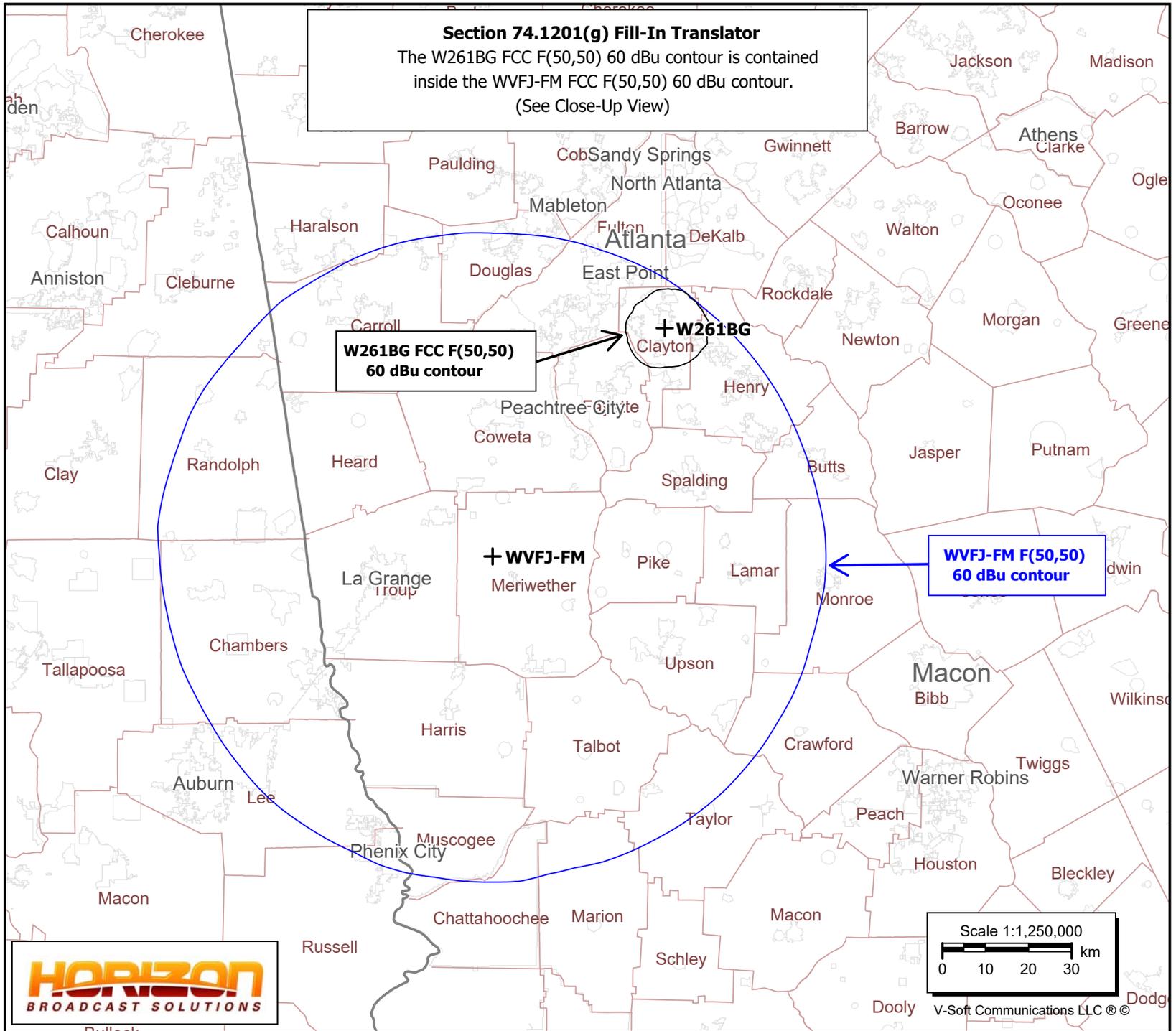
Exhibits show Section 74.1204 contour protection to co-channel full power FM station WQBZ, Channel 292C2, Fort Valley, GA, co-channel FM station translator W292EV, Channel 292D, Marietta, GA, second adjacent full power FM station WAKL, Channel 294C, Gainesville, GA, first adjacent full power FM station WNGC, Channel 291C1, Arcade, GA and co-channel FM translator W292EW, Channel 292D, Carrollton, GA.

Studies have been undertaken to show the proposed facility is in compliance with the Commission's radio frequency emission limits and are attached as exhibits.

W261BG
 Morrow, GA
 Latitude: 33-33-45.40 N
 Longitude: 084-20-27.70 W
 ERP: 0.038 kW
 HAAT: 133.6
 Channel: 292
 Frequency: 106.3 MHz
 AMSL Height: 397.0 m
 Elevation: 280.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC Model
 Loc. Variability: 50.0%
 Time Variability: 50.0%
 HAAT Mthd: FCC

WVFJ-FM
 Greenville, GA
 BMLD20190225ABF
 Latitude: 33-05-10.40 N
 Longitude: 084-46-09.70 W
 ERP: 38.00 kW
 HAAT: 491.0
 Channel: 227
 Frequency: 93.3 MHz
 AMSL Height: 742.0 m
 Elevation: 268.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC Model
 Loc. Variability: 50.0%
 Time Variability: 50.0%
 HAAT Mthd: FCC

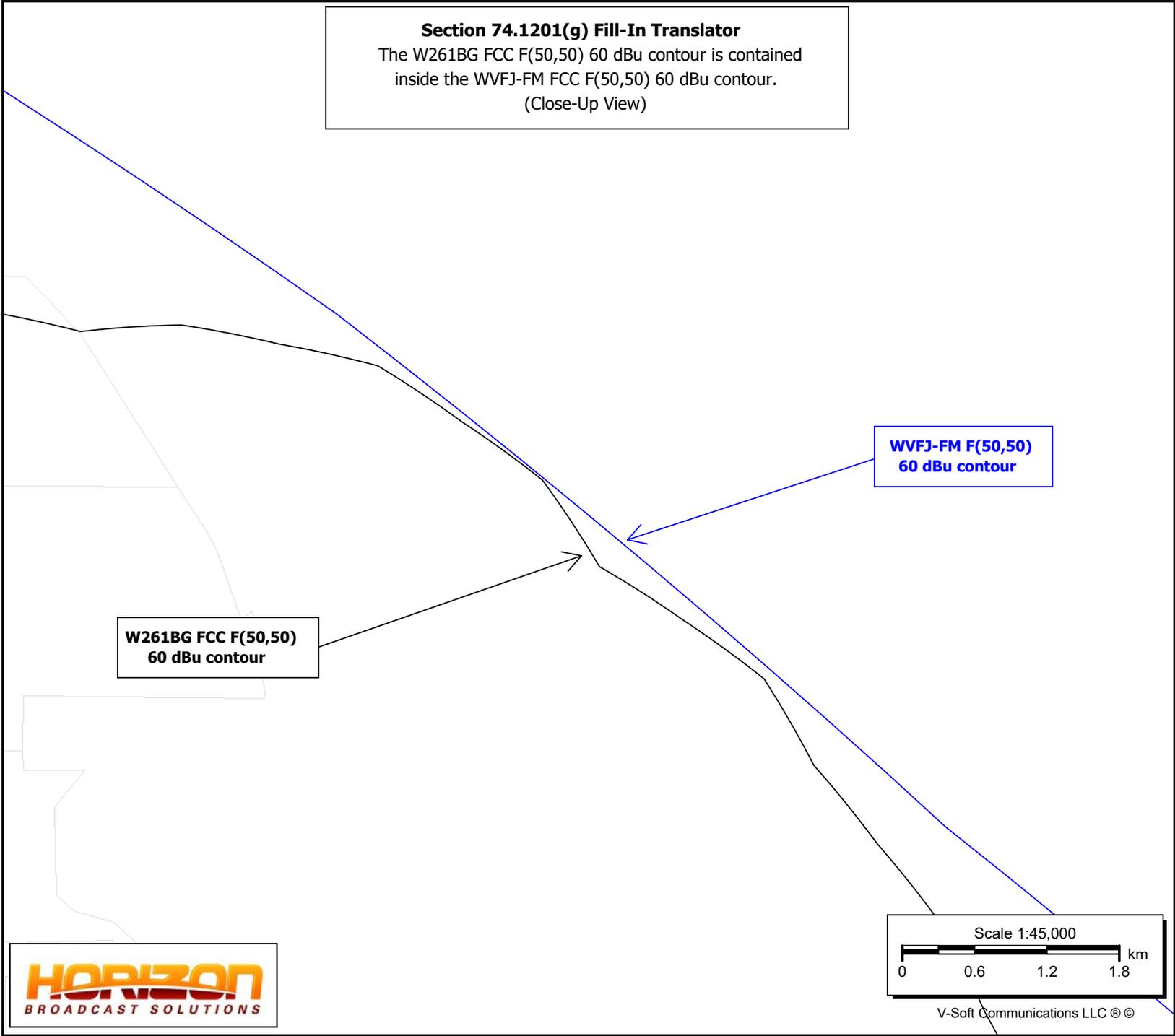
Section 74.1201(g) Fill-In Translator
 The W261BG FCC F(50,50) 60 dBu contour is contained inside the WVFJ-FM FCC F(50,50) 60 dBu contour.
 (See Close-Up View)



W261BG
Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

WVFJ-FM
Greenville, GA
BMLED20190225ABF
Latitude: 33-05-10.40 N
Longitude: 084-46-09.70 W
ERP: 38.00 kW
HAAT: 491.0
Channel: 227
Frequency: 93.3 MHz
AMSL Height: 742.0 m
Elevation: 268.0 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 W261BG FCC F(50,50) 60 dBu contour is contained inside the WVFJ-FM FCC F(50,50) 60 dBu contour.
(Close-Up View)



Proposed Non-adjacent Channel Change

In FCC 1940 MB Docket No. 18-119 released May 9, 2019, the Commissions 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. Since in most instances interference cannot be demonstrated by overlapping of protected and interfering FCC contours, an alternative method must be used to demonstrate interference. The licensed W261BG facility on Channel 261D causes interference to co-channel FM translator W261DL East Point, GA. The W261BG FCC F(50,10) 40 dBu contours overlap with W261DL F(50,50) 60 dBu contour.

A channel study revealed that no adjacent or IF channels were available. Channel 292D was identified as being available. The relocation of W261BG to Channel 292D will mitigate the potential interference caused to W261DL while not causing interference to any other FM station. The proposed W261BG facility would operate on non-adjacent channel 292D with 38 watts ERP at 133.6 meters HAAT. Because there is no change in the transmit location, the proposed facility complies with FCC Section 74.1233(a) with respect to common overlap. The W261BG licensed and proposed FCC F(50,50) 60 dBu contours overlap. The proposed W261BG FCC F(50,50) 60 dBu contour increases population coverage to 223,012 persons, an increase of 130,276 persons. This proposal increases the area of coverage from 96.63 sq. km. to 135.09 sq. km., an increase of 38.45 sq. km.

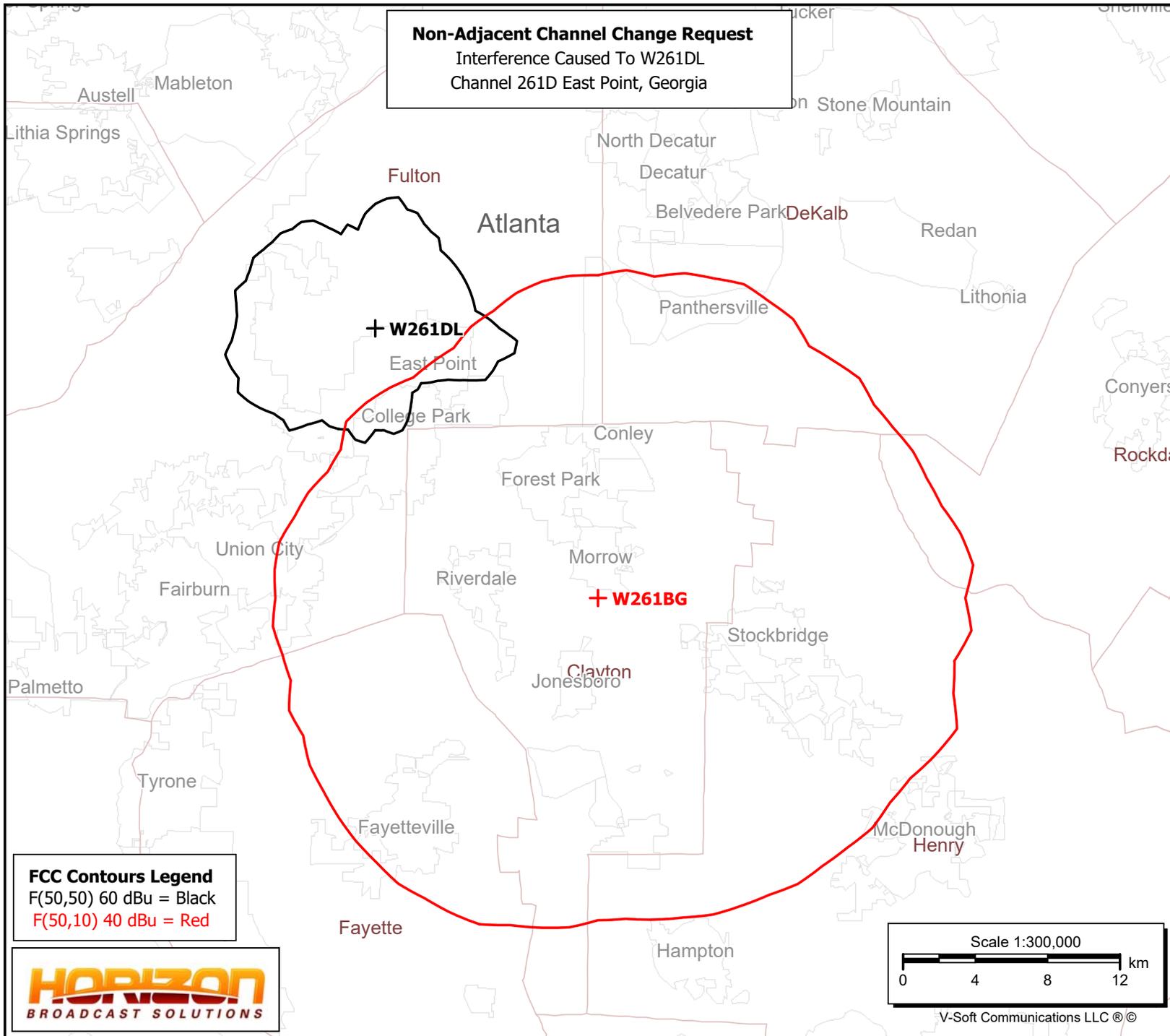
It is believed the proposed W261BG non-adjacent channel change meets the requirements specified in FCC MB Docket No. 18-119.

W261BG
Morrow, GA
BLFT20080505ABM
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.005 kW
HAAT: 133.6
Channel: 261
Frequency: 100.1 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

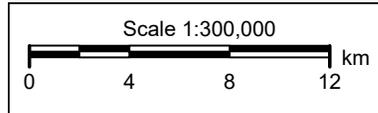
W261DL
East Point, GA
0000130311
Latitude: 33-41-48.30 N
Longitude: 084-28-25.70 W
ERP: 0.099 kW
HAAT: 0.0
Channel: 261
Frequency: 100.1 MHz
AMSL Height: 322.0 m
Elevation: 264.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Non-Adjacent Channel Change Request

Interference Caused To W261DL
Channel 261D East Point, Georgia



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



V-Soft Communications LLC ©

W261BG Channel 292 Study

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REFERENCE                                     DISPLAY DATES
33 33 45.8 N.                               CLASS = A Int = A      DATA 03-31-22
84 20 27.6 W.                               Current Spacings to 3rd Adj. SEARCH 04-01-22
----- Channel 292 - 106.3 MHz -----
Call      Channel  Location      Azi      Dist      FCC      Margin
  Lat.    Lng.      Ant      Power
-----
WQBZ      LIC  292C2  Fort Valley      GA  148.1   105.0   165.5   -60.5
  32 45 31.5  83 44 48.6  CN      50.000 kW      150 M
    Ihm Licenses, LLC      BLH19900921KD
Note: See Section 74.1204 Contour Protection - WQBZ

W292EV    LIC  292D  Marietta      GA  339.9   43.1    84.5   -41.4
  33 55 38.4  84 30 05.8  CN      0.250 kW      0 M
    Dickey Broadcasting Compan BLFT20180904AAY
Note: See Section 74.1204 Contour Protection - W292EV

WAKL      LIC-N 294C  Gainesville     GA  54.3    58.3    94.5   -36.2
  33 52 02.4  83 49 43.6  NCN     77.000 kW     505 M
    Educational Media Foundati  BMLED20190214AAQ
Note: See Section 74.1204 Contour Protection - WAKL

WNGC      LIC  291C1  Arcade      GA  34.6    110.2   132.5   -22.3
  34 22 39.4  83 39 34.6  CN     100.000 kW    299 M
    Cox Radio, LLC      BLH20090918ACL
Note: See Section 74.1204 Contour Protection - WNGC

W292EW    LIC  292D  Carrollton     GA  270.4   62.8    84.5   -21.7
  33 33 54.4  85 01 01.8  CN      0.190 kW      0 M
    Wyai, Inc.      BLFT20180301AAR
Note: See Section 74.1204 Contour Protection - W292EW

WSBB-FM   LIC-Z 238C1  Doraville      GA  1.5     21.8    21.5    0.31
  33 45 33.4  84 20 04.7  ZCN     100.000 kW    279 M
    Cox Radio, LLC      BLH20190802ABE

WBZY      LIC  289C2  Canton      GA  349.5   56.8    54.5    2.3
  34 03 58.3  84 27 14.7  CN     20.000 kW    238 M
    Ihm Licenses, LLC      BLH20040708ACH

WSTH-FM   LIC  291C1  Alexander City AL  230.0   138.2   132.5    5.7
  32 45 30.4  85 28 19.8  CN     86.000 kW    319 M
    Ihm Licenses, LLC      BLH19950410KB

WFAL      LIC-N 290A  Milner      GA  153.1   50.6    30.5    20.1
  33 09 21.6  84 05 39.8  NCN     4.900 kW    112 M
    Augusta Radio Fellowship I  BMLED20190304AAT

WSKZ      LIC  293C0  Chattanooga     TN  333.5   198.9   151.5   47.4
  35 09 42.0  85 19 10.0  CN    100.000 kW    327 M
    Radio License Holding Cbc,  0000170787
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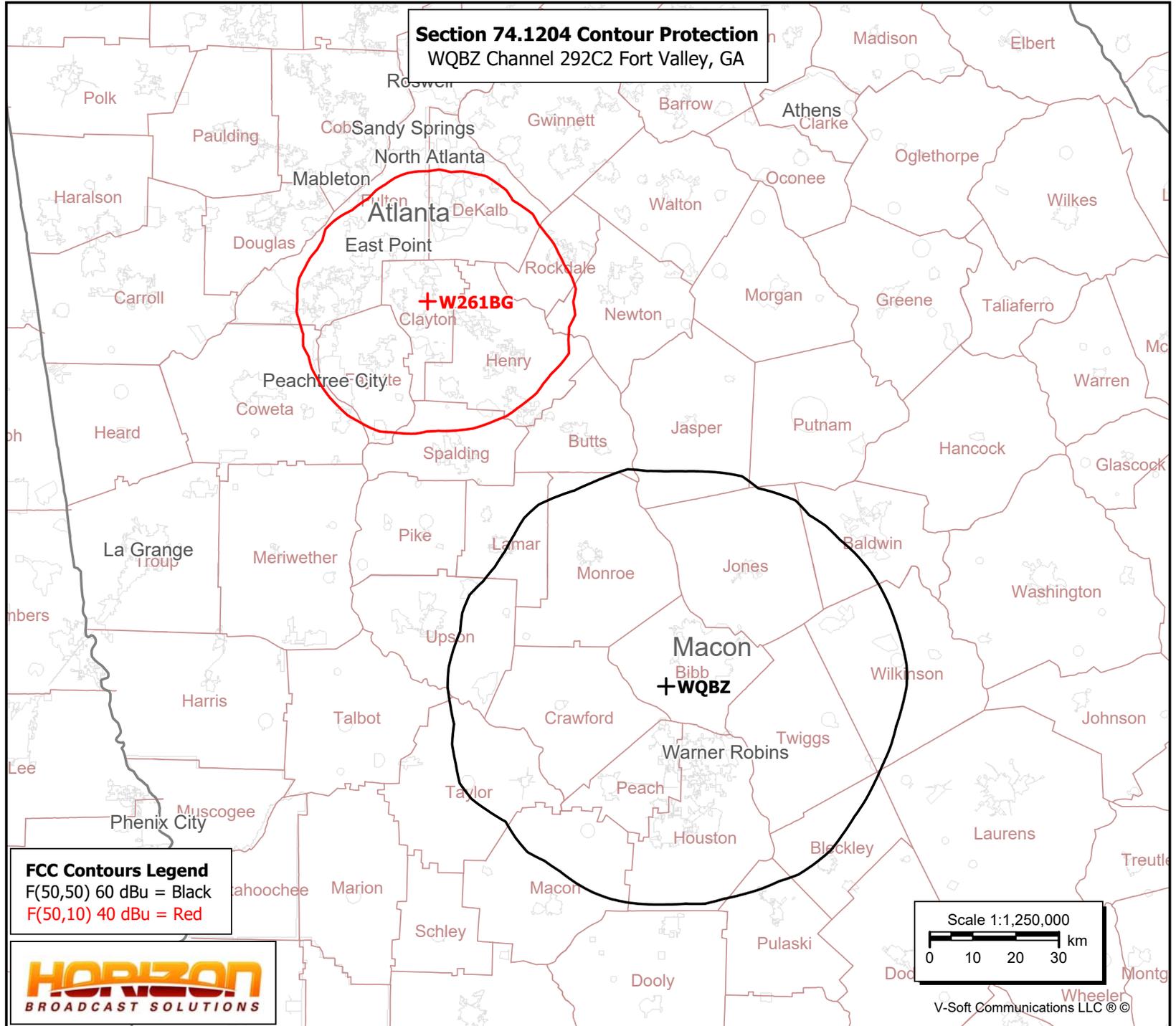
W261BG

Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

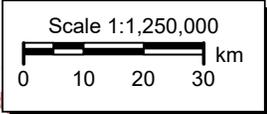
WQBZ

Fort Valley, GA
BLH19900921KD
Latitude: 32-45-31.50 N
Longitude: 083-44-48.60 W
ERP: 50.00 kW
HAAT: 150.0
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 268.0 m
Elevation: 148.0 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
WQBZ Channel 292C2 Fort Valley, GA



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



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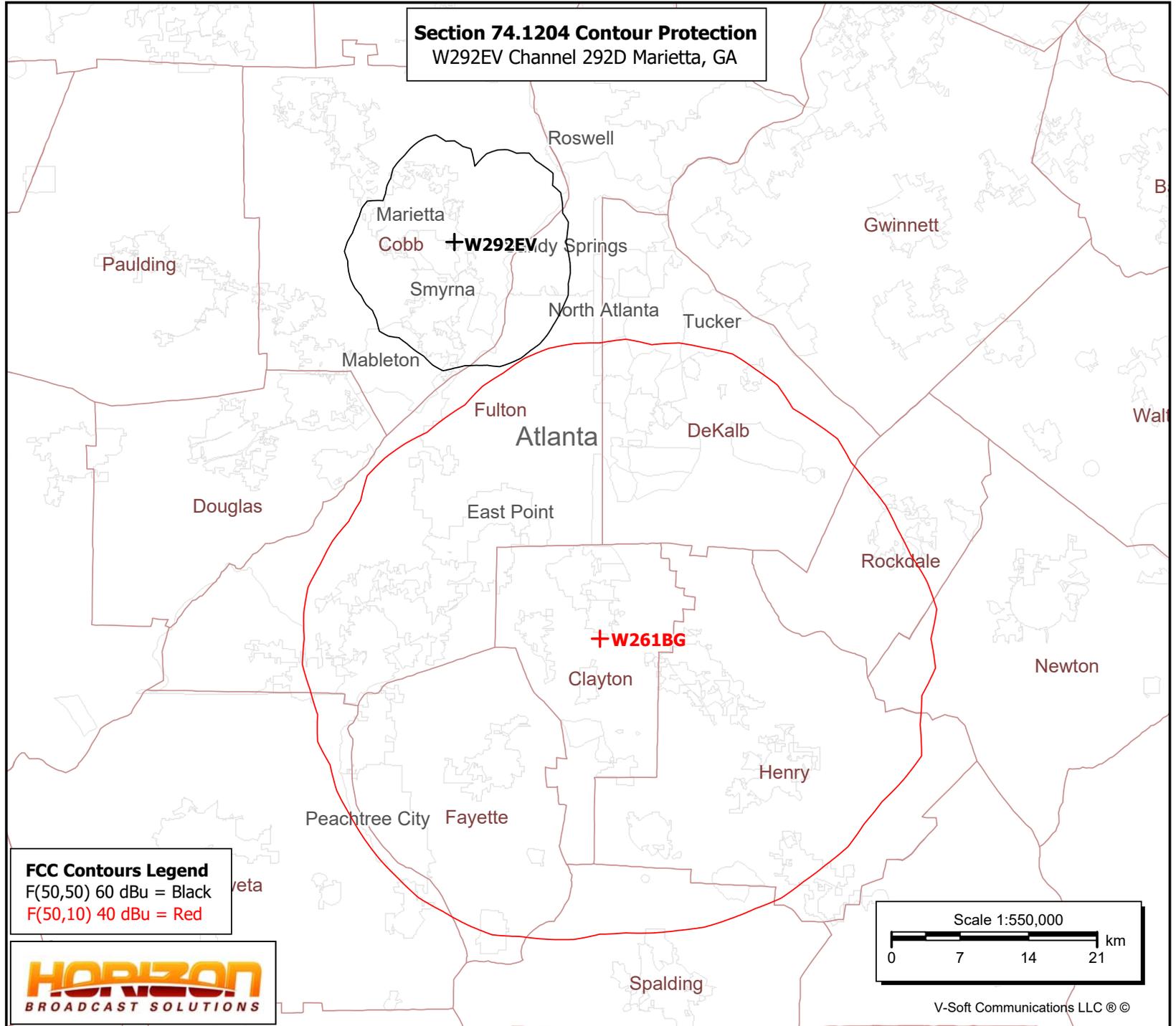
W261BG

Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

W292EV

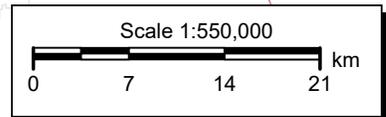
Marietta, GA
BLFT20180904AAY
Latitude: 33-55-38.40 N
Longitude: 084-30-05.80 W
ERP: 0.25 kW
HAAT: 78.07
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 380.0 m
Elevation: 287.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

Section 74.1204 Contour Protection
W292EV Channel 292D Marietta, GA



FCC Contours Legend

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



W261BG

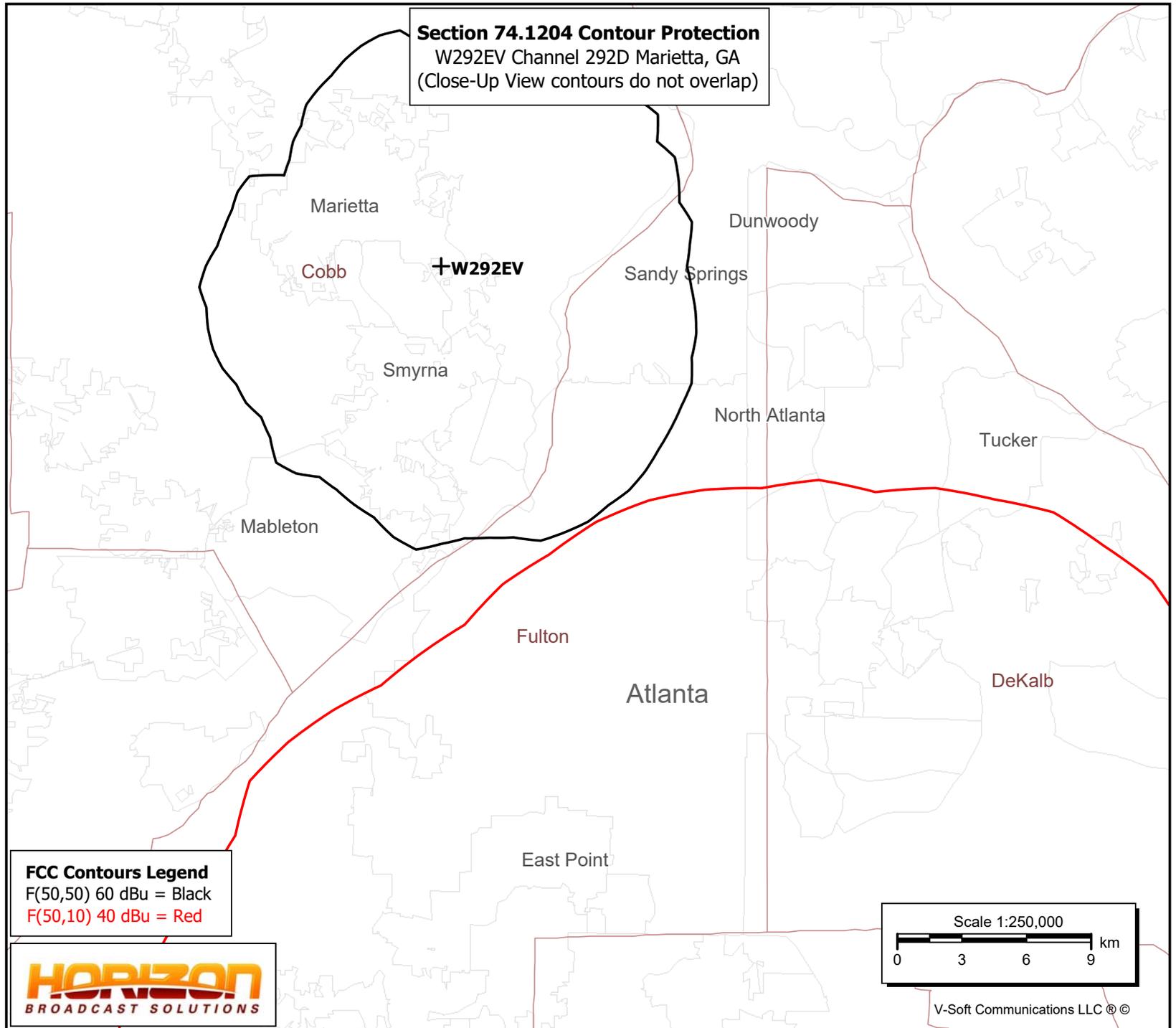
Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

W292EV

Marietta, GA
BLFT20180904AAY
Latitude: 33-55-38.40 N
Longitude: 084-30-05.80 W
ERP: 0.25 kW
HAAT: 78.07
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 380.0 m
Elevation: 287.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

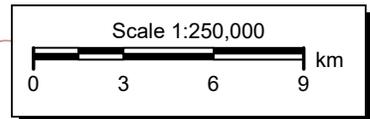
Section 74.1204 Contour Protection

W292EV Channel 292D Marietta, GA
(Close-Up View contours do not overlap)



FCC Contours Legend

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



V-Soft Communications LLC ©

Section 74.1204 Contour Protection to WAKL

This comprehensive exhibit has been prepared to demonstrate that the proposed W261BG modification will not cause prohibited interference to WAKL, Channel 294C, Gainesville, GA. 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 WAKL F(50,50) protected contour at the proposed new FM translator application site is 70 dBu. Therefore, the proposed W261BG F(50,10) interfering contour with respect to WAKL is the 110 dBu contour. Using the FCC's FM propagation curves program (see attached), the 110 dBu contour was calculated to extend 137 meters from the antenna.

The W261BG transmit antenna will be located 117 meters above ground level. As shown on the accompanying spreadsheet and chart, using the vertical elevation pattern data for the SWR FMEC one bay antenna the ERP and contour distances have been calculated every 10 degrees from 0 degrees to 90 degrees. The contour distance ranges from a maximum distance of 136.7 meters at 0 degrees to 13.7 meters at 90 degrees. That data was calculated in the attached charts to plot the distance the interfering contour extends into free space. The contour does not reach the ground. The contour comes to within

approximately 46 meters (150.9 ft.) of ground level at approximately 75 meters (236.2 ft.) from the tower base. Therefore, it is believed that the proposed W261BG modification will not cause prohibited interference to WAKL as the interfering contour does not reach the ground.

W261BG

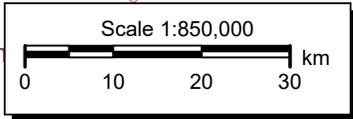
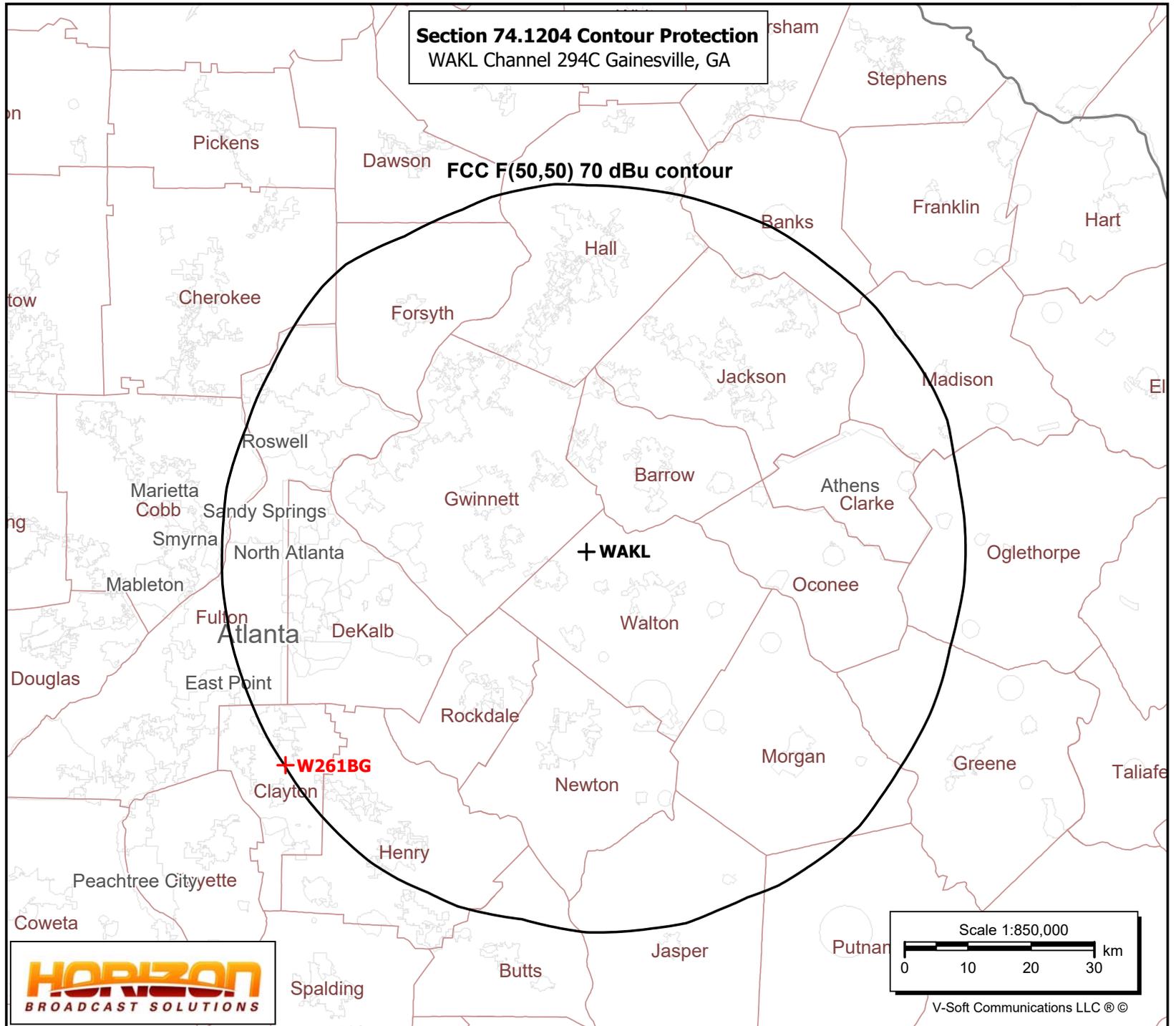
Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

WAKL

Gainesville, GA
BMLED20190214AAQ
Latitude: 33-52-02.40 N
Longitude: 083-49-43.60 W
ERP: 77.00 kW
HAAT: 505.0
Channel: 294
Frequency: 106.7 MHz
AMSL Height: 772.0 m
Elevation: 235.0 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
WAKL Channel 294C Gainesville, GA

FCC F(50,50) 70 dBu contour



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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

Call Sign Reservation and Authorization System (CSRS)

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

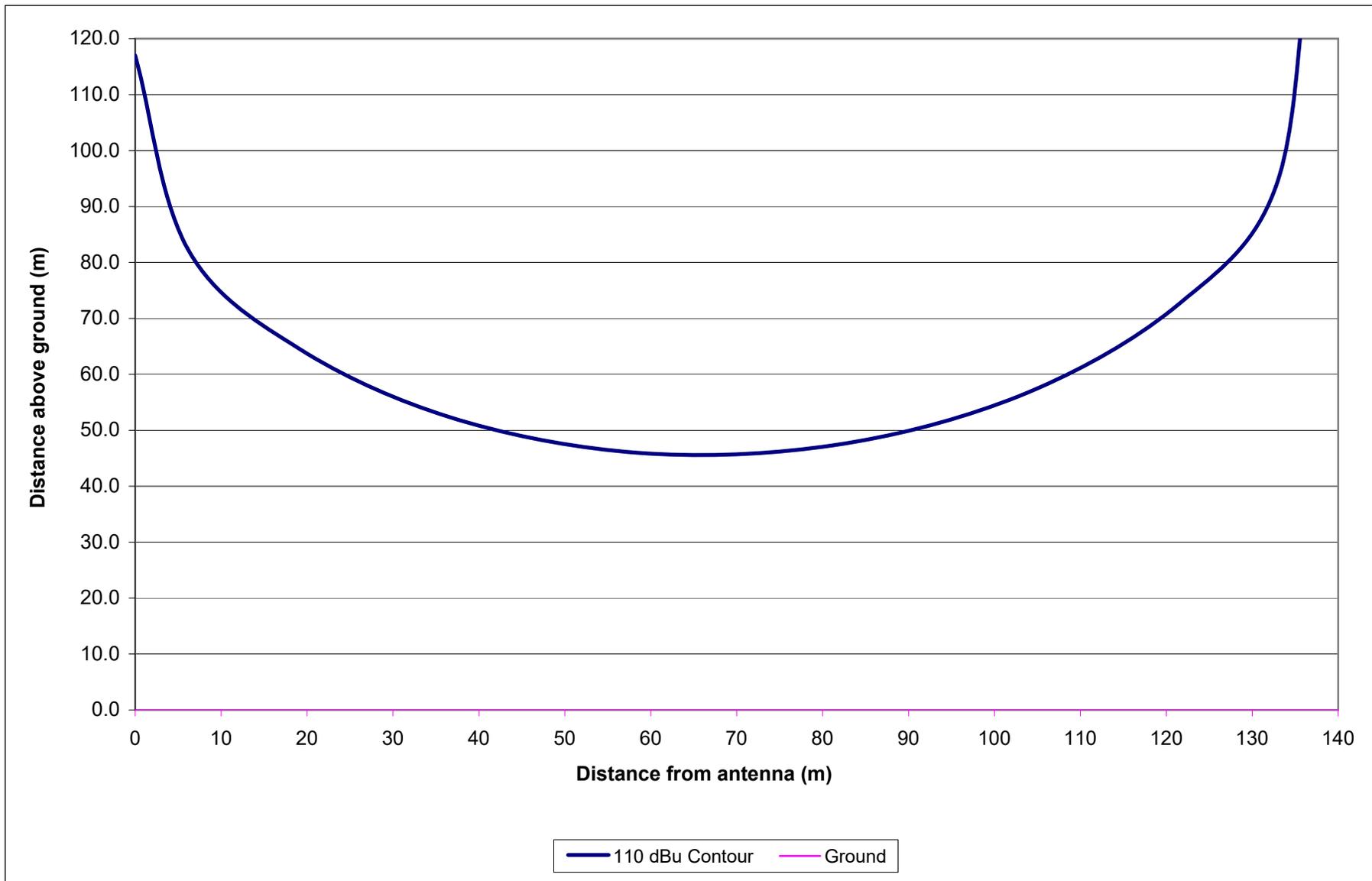
Electioneering Communications Database

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="0.038"/> ERP (kW)	<input type="text" value=""/> Distance (km)
<input type="text" value="133.6"/> HAAT (meters)	<input type="text" value="110"/> Field (dBu)
<input type="button" value="Find Result"/>	<input type="button" value="Clear Form"/>
Results:	
<p>Calculated Distance = 0.137 km</p> <p>Free Space equation used to compute distance.</p>	

W261BG Morrow, GA
Section 74.1204 Contour Protection
WAKL, Channel 294C, Gainesville, GA
(110 dBu F(50,10) interfering contour shown)



The W261DG interfering contour with respect to WAKL does not reach the ground.

Angle of Elevation (Degrees)	Relative Field	Watts (ERP)	ERP (dBk)	110 dBu Contour (Meters)
0	1.000	38.0	-14.2	136.7
10	0.986	37.0	-14.32	134.8
20	0.946	34.0	-14.68	129.4
30	0.879	29.0	-15.32	120.2
40	0.789	24.0	-16.26	107.9
50	0.679	18.0	-17.56	92.9
60	0.550	11.0	-19.39	75.2
70	0.408	6.0	-21.99	55.8
80	0.256	2.0	-26.04	35
90	0.100	0.0	-34.2	13.7

Θ ($^{\circ}$)	Θ (radians)	R (m)	x'	y'	$y = 137 - y'$	Gnd
0	0	136.7	136.7	0	137.0	0
10	0.175	134.8	132.8	23.4	93.6	0
20	0.349	129.4	121.6	44.3	72.7	0
30	0.524	120.2	104.1	60.1	56.9	0
40	0.698	107.9	82.7	69.4	47.6	0
50	0.873	92.9	59.7	71.2	45.8	0
60	1.047	75.2	37.6	65.1	51.9	0
70	1.222	55.8	19.1	52.4	64.6	0
80	1.396	35	6.1	34.5	82.5	0
90	1.571	13.7	0.0	13.7	117	0

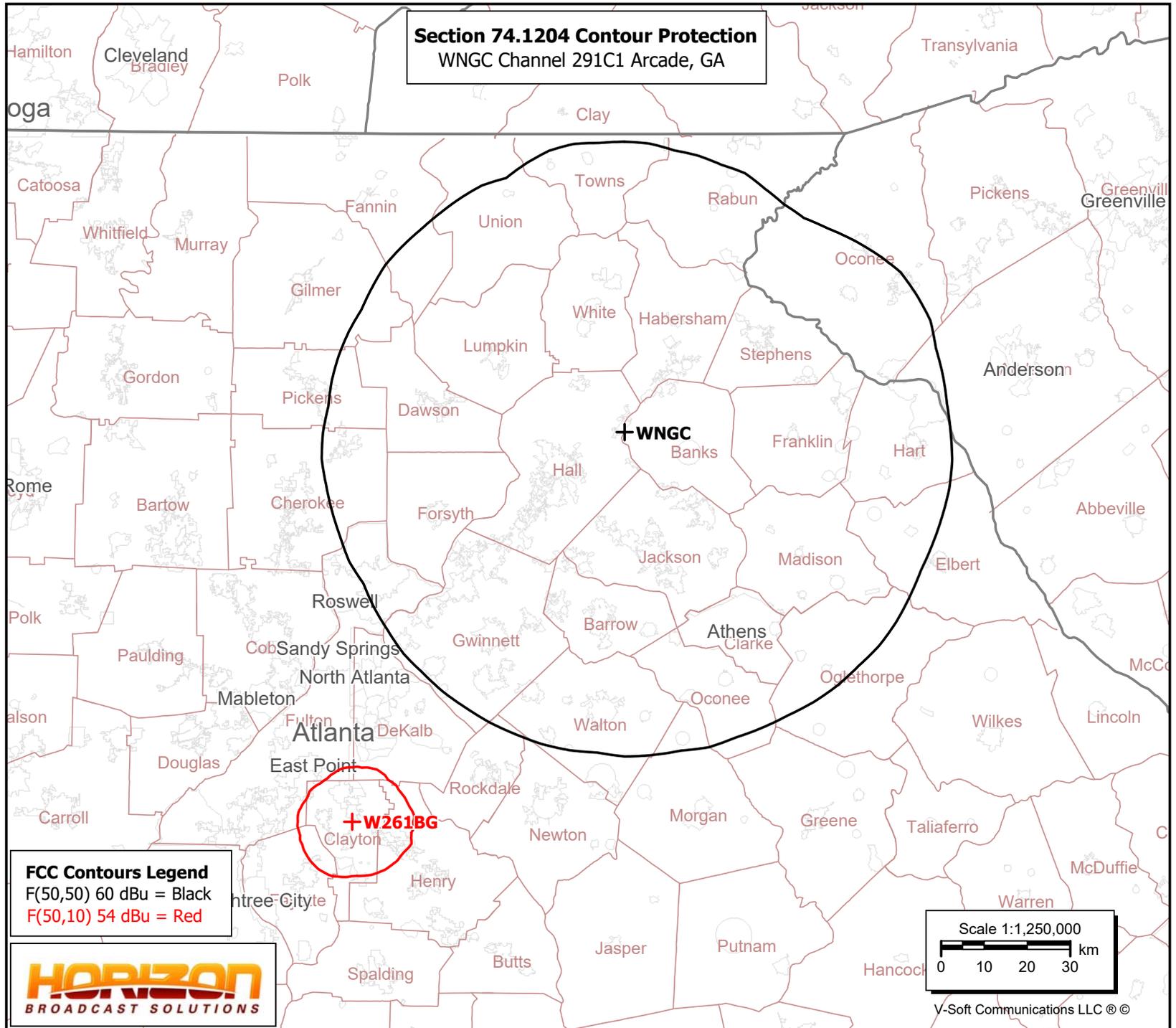
W261BG

Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

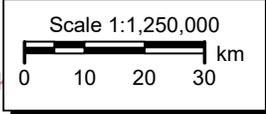
WNGC

Arcade, GA
BLH20090918ACL
Latitude: 34-22-39.40 N
Longitude: 083-39-34.60 W
ERP: 100.00 kW
HAAT: 299.0
Channel: 291
Frequency: 106.1 MHz
AMSL Height: 619.0 m
Elevation: 398.0 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
WNGC Channel 291C1 Arcade, GA



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



V-Soft Communications LLC ©

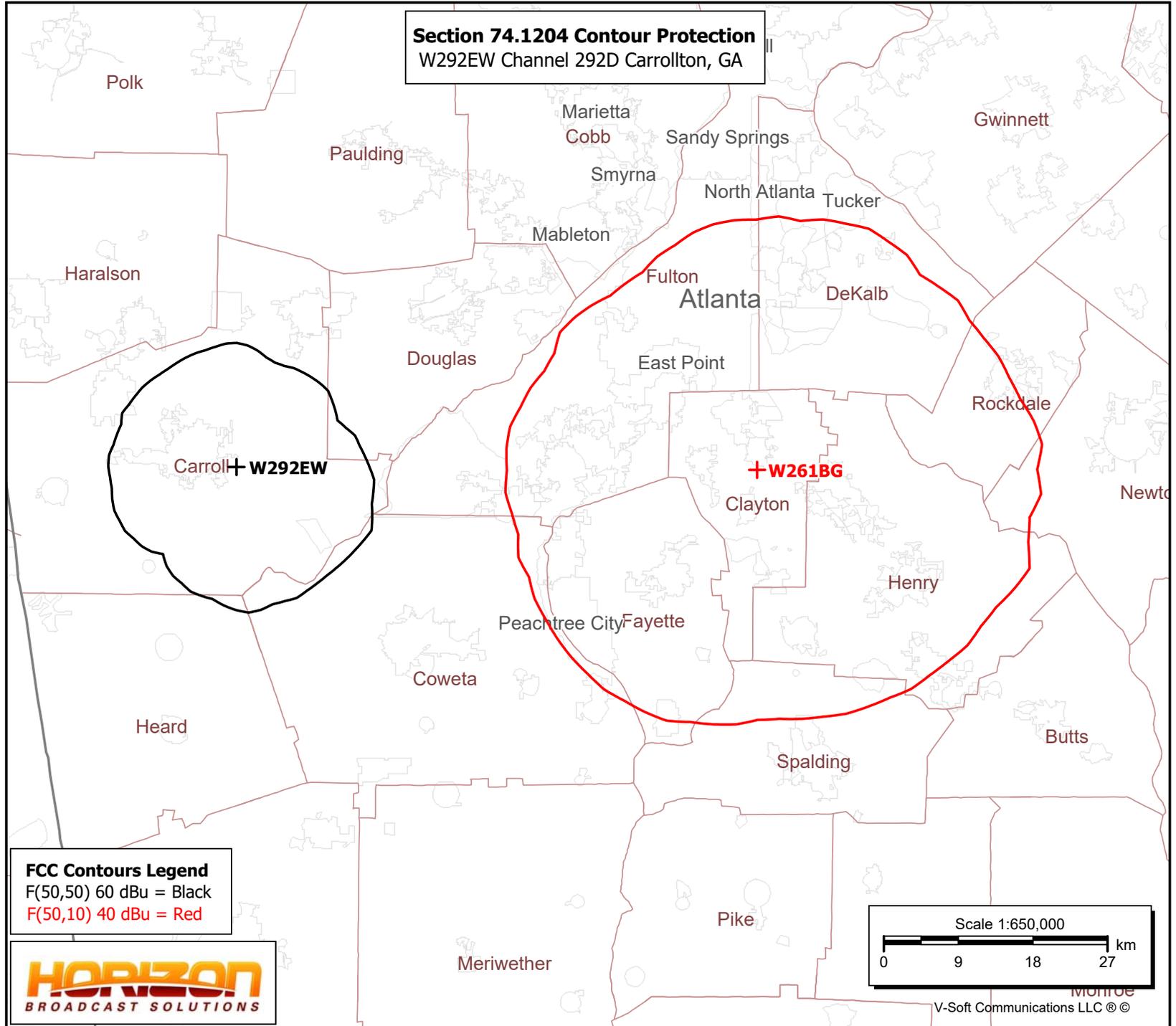
W261BG

Morrow, GA
Latitude: 33-33-45.40 N
Longitude: 084-20-27.70 W
ERP: 0.038 kW
HAAT: 133.6
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 397.0 m
Elevation: 280.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: FCC Model
Loc. Variability: 50.0%
Time Variability: 50.0%
HAAT Mthd: FCC

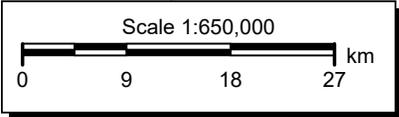
W292EW

Carrollton, GA
BLFT20180301AAR
Latitude: 33-33-54.40 N
Longitude: 085-01-01.80 W
ERP: 0.19 kW
HAAT: 165.07
Channel: 292
Frequency: 106.3 MHz
AMSL Height: 478.0 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
W292EW Channel 292D Carrollton, GA



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



**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. Radio Training Network Inc. seeks to modify FM translator W261BG, Facility ID No. 153974, Morrow, Georgia. The proposed W261BG facility would simulcast co-owned primary FM station WVFJ-FM, Facility ID No. 53679, Channel 227C0, licensed to Greenville, GA. The W261BG proposed tower site is located at 33° 33' 45.8" N ~ 84° 20' 27.6" W (NAD 83) . The tower is 136.2 meters in overall height and is registered with the Antenna Registration Structure "ASR" number 1011975. The proposed antenna is a side mounted SWR FMEC-1 one bay circularly polarized antenna with a center of radiation of 117 meters AGL. W261BG would operate on Channel 292D, 106.3 MHz, with 38 watts ERP non-directional at 133.6 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. Because the proposed new facility proposes to operate from an existing tower and no changes to the tower are being made, 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 SWR antenna is included in the recently revised OET FM Model Program under Type 1, Ring-and-stub, or any type not otherwise described.. Using the EPA Element Type 1, the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.116 $\mu\text{W}/\text{cm}^2$ at 30.8 meters, which is 0.058 percent of the general population/uncontrolled maximum permitted exposure limit. This is well 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.

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

[FCC Policy on Human Exposure](#)

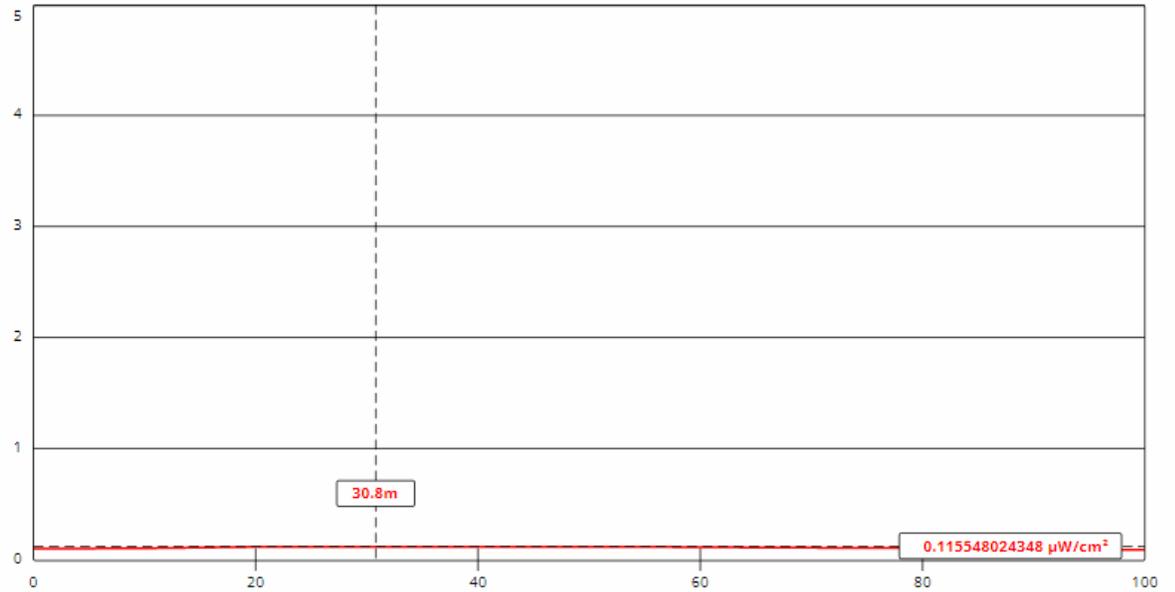
[RF Safety FAQ](#)

[Body Tissue Dielectric Parameters](#)

[RF Safety Highlighted Releases](#)

FM Model

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 292 (106.3 MHz) ▼		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▼		
Height (m)	117	Distance (m)	100
ERP-H (W)	38	ERP-V (W)	38
Num of Elements	1	Element Spacing (?)	1
Num of Points	500	Apply	

Bureau/Office:
Engineering & Technology