

WXGA-DT CHANNEL 8 MINOR
CHANGE IN LICENSED FACILITY
APPLICATION FOR FINAL
POST-TRANSITION DTV OPERATION
WAYCROSS, GEORGIA
(Georgia Public Telecommunications Commission)

KESSLER AND GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20080312

Prepared by William T. Godfrey, Jr.

KGGA

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Kessler and Gehman Associates, Inc.

Telecommunications Consulting Engineers

ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A MINOR CHANGE IN LICENSED FACILITY APPLICATION (BLCT-1161) REQUESTING AUTHORIZATION TO OPERATE THE GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION DIGITAL TELEVISION BROADCAST FACILITY, WXGA-DT CHANNEL 8, ON ITS FINAL POST-TRANSITION DIGITAL CHANNEL AS ADOPTED IN THE FINAL DTV TABLE OF ALLOTMENTS.

The firm Kessler and Gehman Associates, Inc. has been retained by the Georgia Public Telecommunications Commission (GPTC), Atlanta, GA to prepare engineering studies and the engineering portion of a minor change in licensed facility application (BLCT-1161) requesting authorization to operate the WXGA-DT facility on its final post-transition digital channel as adopted in the Report and Order in MB Docket No. 07-91, FCC 07-228 *In the Matter of Third Periodic Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television*, Released on December 31, 2007 (R&O). This application also requests authorization to operate the final WXGA-DT Channel 8 post-transition DTV facility with an Effective Radiated Power (ERP) and antenna height radiation center that deviate slightly from the final DTV Table of Allotments (DTV TOA) adopted in the R&O and match the current WXGA-DT construction permit (BMPEDT-20070829AAL).

Discussion

The final DTV TOA assigns digital Channel 8 as the WXGA-DT post-transition digital channel. It also assigns an antenna radiation center Height Above Average Terrain (HAAT) of 286 m, a non-directional antenna (no antenna ID), and an Effective Radiated Power (ERP) of 20 kW. GPTC filed an FCC Form 387 DTV Transition Report in February 2008 informing the FCC that it planned to request minor changes from the station's final DTV allotment in its construction permit application for post-transition DTV facilities.



As part of the statewide digital transition project, GPTC awarded an antenna contract to procure a Dielectric model TF-14HT-DC dual channel (N8/D9/D8), nondirectional antenna for the WXGA-DT Channel 8 final post-transition DTV operation which could be used for analog Channel 8 and digital Channel 9 during the transition and digital Channel 8 after the transition. The original plan back in the early stages of the DTV transition was to side-mount the DTV antenna, which is why the antenna HAAT depicted in the Final DTV TOA is only 286 m, however; the top-mount, dual-channel antenna saved GPTC an enormous amount of money with respect to tower strengthening, a second antenna, and additional transmission line.

Top-mounting the antenna resulted in an antenna radiation center HAAT of 308.0 m which is 22.8 m greater than the antenna height assigned in the Final DTV TOA. Therefore, to comply with the freeze, prohibiting the increase of a station's DTV service area in one or more directions, and to closely match the final DTV TOA, GPTC also requests to reduce the ERP assigned in the Final DTV TOA from 20 kW to 16 kW. Referring to Exhibit 8, it can be seen that the proposed WXGA-DT Channel 8 post-transition facility's F(50,90) 36.0 dBuV/m noise limited contour (red), resulting from an antenna radiation center HAAT of 308.0 m and an ERP of 16 kW using a non-directional antenna, closely matches the F(50,90) 36.0 dBuV/m noise limited contour, resulting from the parameters adopted in the Final DTV TOA (green). The F(50,90) 36.0 dBuV/m noise limited contour, resulting from the parameters adopted in the Final DTV TOA (green), completely encompass the proposed WXGA-DT Channel 8 post-transition facility's F(50,90) 36.0 dBuV/m noise limited contour (red) in all azimuthal directions.

Expedited Processing

Exhibit 8 demonstrates that the WXGA-DT Channel 8 Final DTV TOA facility's F(50,90) 36.0 dBuV/m noise limited contour (green) completely encompasses the proposed WXGA-DT Channel 8 facility's F(50,90) 36.0 dBuV/m noise limited contour (dashed red). Exhibit 9 is a distance to contour tabulation of the WXGA-DT Channel 8 Final DTV TOA facility. This exhibit depicts the distance, in kilometers, from the transmitter to the WXGA-DT Final DTV TOA facility's noise limited contour in all azimuthal directions. Exhibit 10 is a distance to



contour tabulation of the proposed WXGA-DT Channel 8 facility. This exhibit depicts the distance, in kilometers, from the transmitter to the proposed WXGA-DT noise limited contour in all azimuthal directions. Exhibit 11 is a distance to contour comparison spreadsheet which compares the distance from the transmitter to the noise limited contour of the WXGA-DT Final DTV TOA facility (Exhibit 9) and the proposed facility (Exhibit 10). Column four in Exhibit 11 depicts "PASS" if the proposed distance to contour values are less than or equal to the Final DTV TOA distance to contour values or "FAIL" if the proposed distance to contour values are greater than the Final DTV TOA distance to contour values. Exhibit 11 demonstrates that the Final DTV TOA facility's distance to contour values are greater than or equal to the proposed distance to contour values in all azimuthal directions. Therefore, the proposed facility will not expand the noise limited service contour in any direction beyond that established in Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. Section 73.622(i) ("new DTV Table Appendix B".)

Exhibit 12 is a contour map depicting the WXGA-DT Final DTV TOA facility's F(50,90) 36.0 dBuV/m noise limited contour (green) and the predicted population within that contour based on U.S. Census 2000 data. The population within the WXGA-DT Final DTV TOA facility's F(50,90) 36.0 dBuV/m noise limited contour (green) is predicted to be 452,288 persons. The map also depicts the Proposed WXGA-DT facility's F(50,90) 36.0 dBuV/m noise limited contour (dashed red) and the predicted population within that contour based on U.S. Census 2000 data. The population within the Proposed facility's F(50,90) 36.0 dBuV/m noise limited contour (dashed red) is predicted to be 447,247 persons. Therefore, the Proposed WXGA-DT facility is predicted to serve 5,041 persons less (452,288-447,247) than the WXGA-DT Final DTV TOA facility which equates to a predicted 1.1% population reduction (5,041/452,288).

Accordingly, GPTC respectfully requests expedited processing pursuant to §V.D.1. (¶140) of the R&O. This application meets all three of the following conditions required to qualify for expedited processing:



- (1) This application does not seek to expand the station's facilities beyond its final post-transition DTV Table Appendix B facilities;
- (2) This application specifies facilities that match or closely approximate the DTV Table Appendix B facilities (*i.e.*, if the station is unable to build precisely the facilities specified in the new DTV Table Appendix B, then it must apply for facilities that are no more than five percent smaller than its facility specified in Appendix B facilities with respect to predicted population); and
- (3) This application was filed within 45 days of the effective date of the Report and Order.

Exhibits

Exhibits 1 and 2 represent WXGA's administration data, antenna and antenna structure specifications.

Exhibit 3 depicts the profile view of the proposed antenna on the antenna structure with all the appropriate elevations.

Exhibits 4 (11 deg) and 5 (90 deg) display the elevation pattern and Exhibit 6 displays the elevation pattern tabulation.

Exhibit 7 depicts the location of the WXGA-DT site on a 7.5-Minute (Series) Topographic map.

Exhibit 8 is an FCC coverage contour map depicting the WXGA-DT Channel 8 Final DTV TOA facility's F(50,90) 36.0 dBuV/m noise limited contour (green) and the proposed WXGA-DT Channel 8 facility's F(50,90) 36.0 dBuV/m noise limited contour (dashed red).

Exhibit 9 is a distance to contour tabulation of the WXGA-DT Final DTV TOA facility. This exhibit depicts the distance, in kilometers, from the transmitter to the authorized WXGA-DT Final DTV TOA noise limited contour in all azimuthal directions.



Exhibit 10 is a distance to contour tabulation of the proposed WXGA-DT facility. This exhibit depicts the distance, in kilometers, from the transmitter to the proposed WXGA-DT noise limited contour in all azimuthal directions.

Exhibit 11 is a distance to contour comparison tabulation spreadsheet between the WXGA-DT Final DTV TOA facility and the proposed WXGA-DT facility. The chart demonstrates that the Final DTV TOA facility's distance to contour values are greater than or equal to the proposed WXGA-DT facility's distance to contour values in all azimuthal directions.

Exhibit 12 is a contour map depicting the WXGA-DT Final DTV TOA facility's F(50,90) 36.0 dBuV/m noise limited contour (green) and the predicted population within that contour based on U.S. Census 2000 data. The map also depicts the Proposed WXGA-DT facility's F(50,90) 36.0 dBuV/m noise limited contour (dashed red) and the predicted population within that contour based on U.S. Census 2000 data.

Environmental Impact

The proposed construction would have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, 3-inch (50-ohm) transmission line and antenna system shall produce an ERP of 16 kW. It was determined that the maximum lobe of radiation from the base of the tower would occur at approximately 581.5 feet from the base of the tower (1,163.0-foot radial distance from the antenna center). At approximately 581.5 feet from the base of the tower, the depression angle of the main lobe would be approximately 60° below the horizontal. At that point, the relative field is 0.199 and the power density six feet above the ground would be approximately 0.0002 mW/cm². This would only be 0.017% of the maximum permissible exposure (MPE) limits for Occupational/Controlled Exposure and only 0.08% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI).



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Since operation of the proposed WXGA-DT Channel 8 facility would not exceed 5.0% of the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground, the proposed WXGA-DT facility would not be considered a “significant contributor” to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions would be insignificant and well within the maximum allowable requirements. If other antennas are placed on the tower in the future, the applicant will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from electromagnetic radiation emanating from the antenna.

Certification

This technical statement was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and has been working in the field of radio and television broadcast consulting since 1998. He graduated from the University of North Florida with a Bachelor of Arts degree in Criminal Justice and a minor in Mathematics in 1993. As a Professional in the field of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.



KESSLER AND GEHMAN ASSOCIATES, INC.


WILLIAM T. GODFREY, JR.
Telecommunications Technical Consultant

12 March, 2008

WXGA-DT CHANNEL 8 POST-TRANSITION DTV FACILITY

WAYCROSS, GA

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates:

North Latitude 31° 13' 17"
West Longitude 82° 34' 24"

Transmitter Site Address: **6433 TV Tower Road
Millwood, GA**

B. Main Studio Site Address: 260 14th Street N.W., Atlanta, GA 30318.

C. Post-Transition Facility:

DTV Channel Number 8
Frequency 180-186 MHz
Offset N/A

D. Antenna Height:

Height of Site Above Mean Sea Level (AMSL) 48.7 M
Overall Height of Structure Above Ground 323.0 M
(including all appurtenances)
Overall Height of Structure Above Mean Sea Level 371.7 M
(including all appurtenances)
Height of Site Above Average Terrain -0.8 M
Antenna Height Radiation Center (R/C) Above Ground 308.8 M
Antenna Height R/C Above Mean Sea Level 357.5 M
Average of All Non-Odd Radials 49.5 M
Antenna Height R/C Above Average Terrain 308.0 M

E. System Parameters – Horizontal Polarization:

Transmitter Power Output 1.8 kW
Maximum Power Input to Antenna 1.1 kW
Total System Loss 2.03 dB
Transmission Line Efficiency 62.6%
Maximum Antenna Gain in Beam Maximum 11.49 dB
Maximum Antenna Gain in Horizontal Plane 10.83 dB
Maximum Effective Radiated Power 12.04 dBk
 In Beam Maximum 16.0 kW
Maximum Effective Radiated Power 11.38 dBk
 In Horizontal Plane 13.7 kW

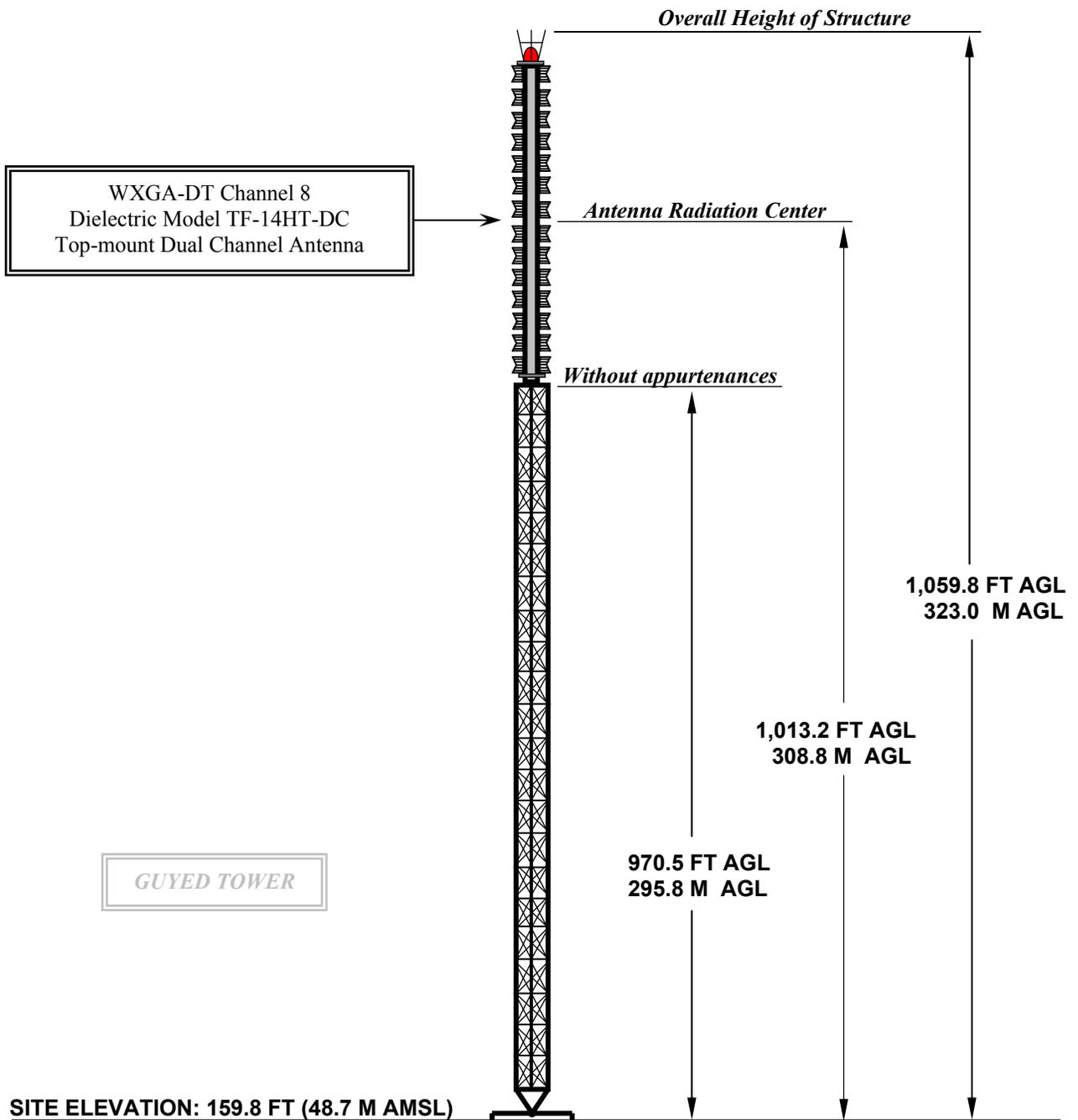
WXGA-DT CHANNEL 8 POST-TRANSITION DTV FACILITY

WAYCROSS, GA

DATA FOR PROPOSED NONDIRECTIONAL TRANSMITTING ANTENNA

- A. **Antenna:** Dielectric Model TF-14HT-DC, Horizontally Polarized, Nondirectional, Top-mount, Dual Channel Antenna.
- B. **Electrical Beam Tilt:** 0.75 degrees
- C. **Mechanical Beam Tilt:** None
- D. **Maximum Power Gain** **Horizontal Polarization**
Maximum: 14.1 (11.49 dB)
Horizontal: 12.1 (10.83 dB)
- E. **Length:** 85.3 feet (26.0 meters) not including appurtenances.
- F. **TPO:** 1.8 kW
- G. **Null Fill:** 9.0%
- H. **Transmission Line:** 3" 50 ohm Heliax®
- I. **Transmission Line Loss:** 0.199 dB/100-feet
- J. **Total Transmission Line:** 1,021 feet (1,003' V + 18' H)
- K. **Transmission Line Attenuation:** 2.03 dB

WXGA-DT POST-TRANSITION ELEVATION VIEW



OVERALL HEIGHT AGL:	323.0 M
OVERALL HEIGHT AMSL:	371.7 M
RADIATION CENTER AGL:	308.8 M
RADIATION CENTER AMSL:	357.5 M
RADIATION CENTER HAAT:	308.0 M
AVG OF ALL NON-ODD RADIALS:	49.5 M
SITE HAAT:	-0.8 M

COORDINATES (NAD 27):

N. LATITUDE 31° 13' 17"
W. LONGITUDE 82° 34' 24"

Antenna Structure Registration Number:
1018780

NOTE: NOT TO SCALE

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WXGA-DT CHANNEL 8

WAYCROSS, GEORGIA

20080226

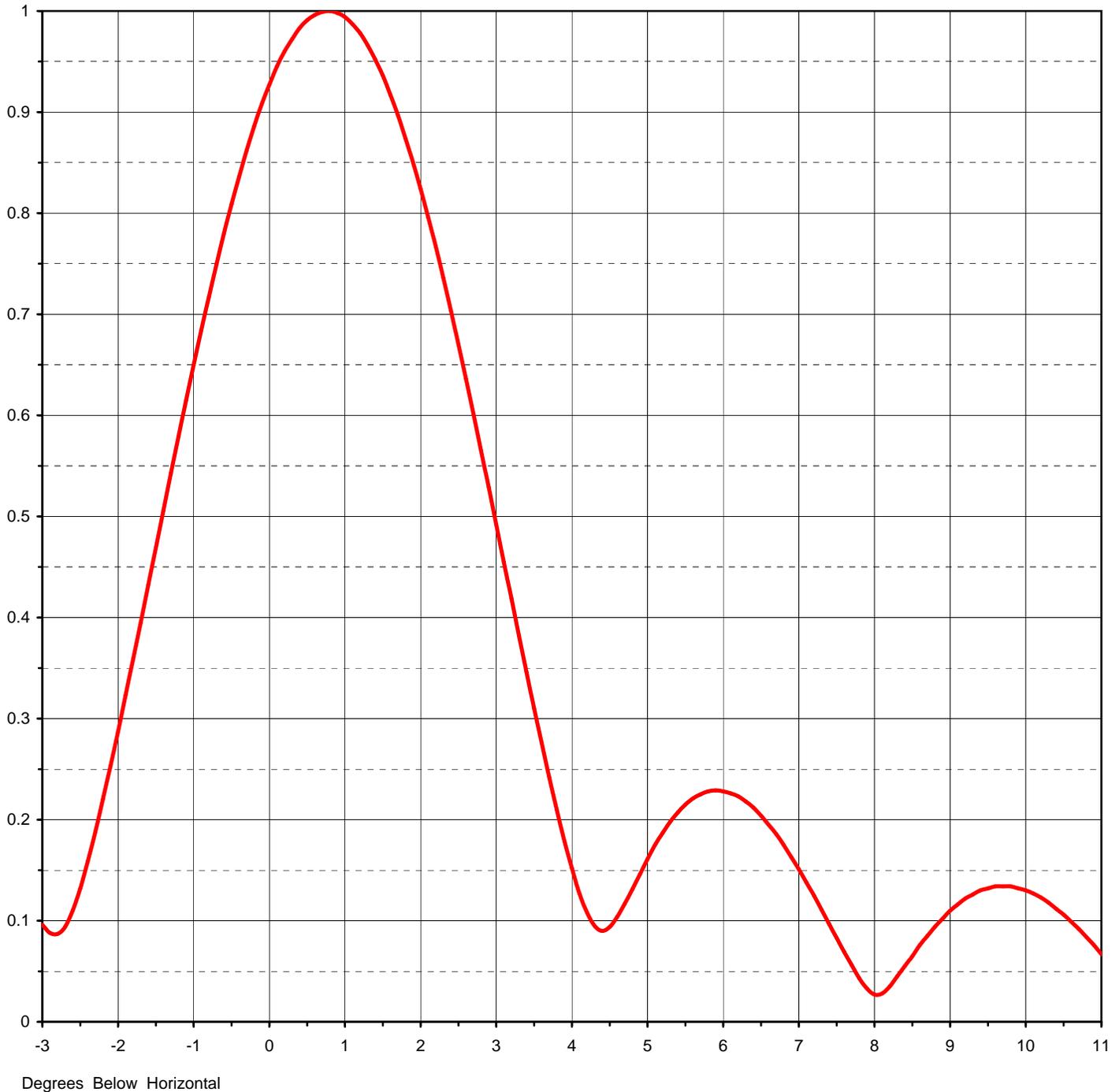
EXHIBIT 3



Proposal Number **C-00459** Revision: **4**
Date **11-Apr-07**
Call Letters **WXGA** Channel **8**
Location **Millwood, GA**
Customer **GPTV**
Antenna Type **TF-14HT-DC**

ELEVATION PATTERN

RMS Gain at Main Lobe **14.10 (11.49 dB)** Beam Tilt **0.75 deg**
RMS Gain at Horizontal **12.10 (10.83 dB)** Frequency **183.00 MHz**
Calculated / Measured **Calculated** Drawing # **14S141080**

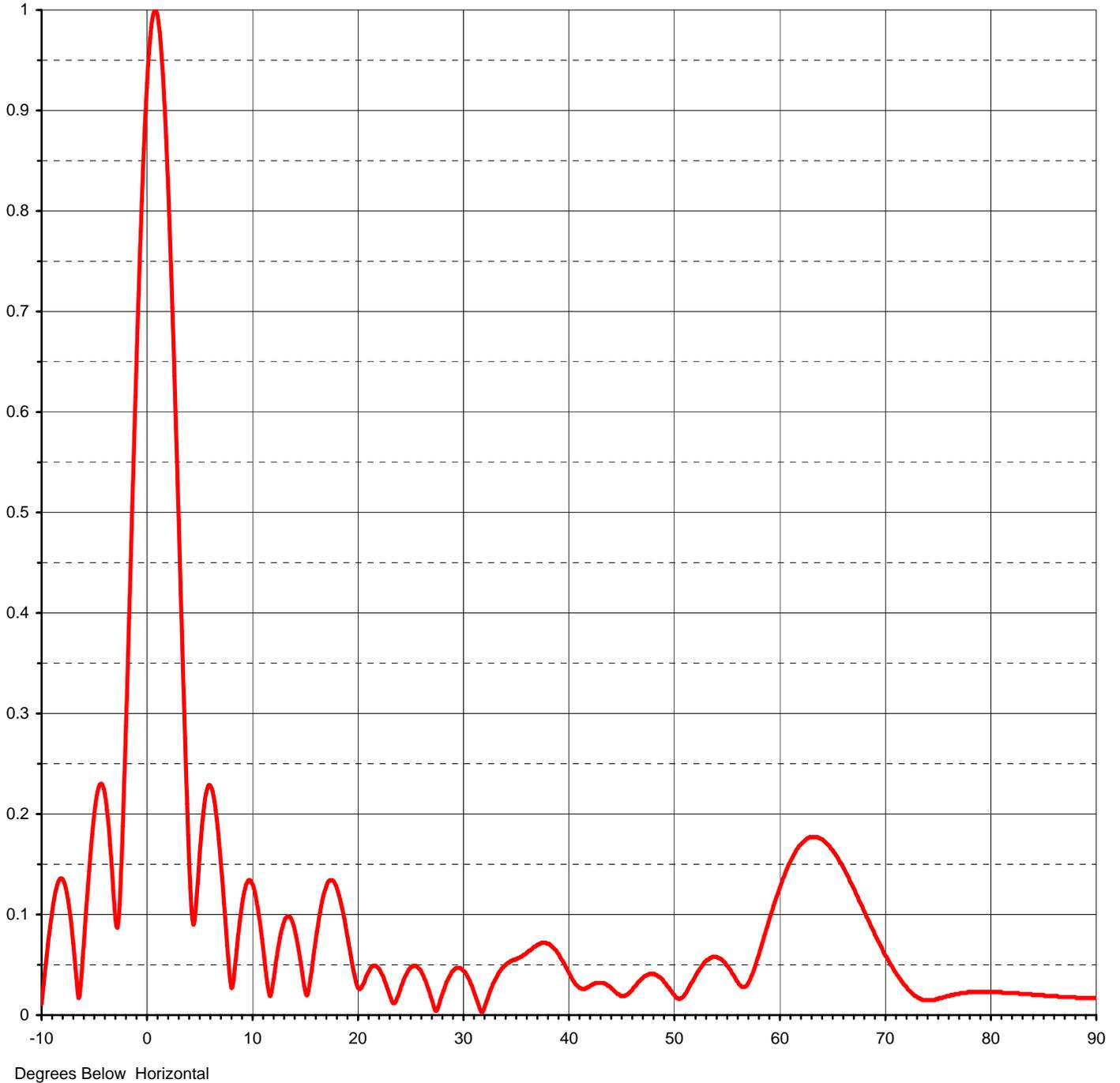




Proposal Number **C-00459** Revision: **4**
Date **11-Apr-07**
Call Letters **WXGA** Channel **8**
Location **Millwood, GA**
Customer **GPTV**
Antenna Type **TF-14HT-DC**

ELEVATION PATTERN

RMS Gain at Main Lobe **14.10 (11.49 dB)** Beam Tilt **0.75 deg**
RMS Gain at Horizontal **12.10 (10.83 dB)** Frequency **183.00 MHz**
Calculated / Measured **Calculated** Drawing # **14S141080-90**



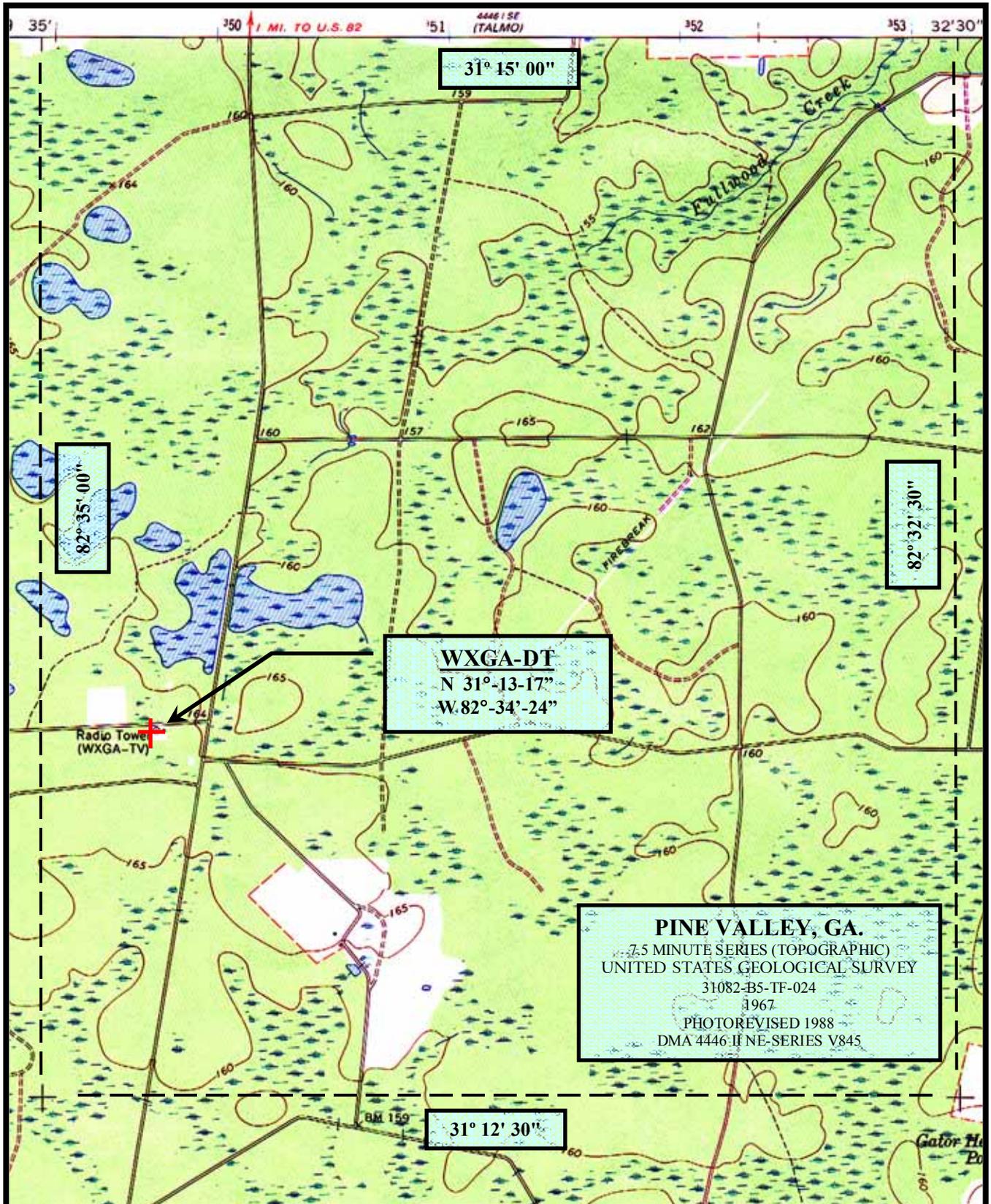


Proposal Number **C-00459** Revision: **4**
 Date **11-Apr-07**
 Call Letters **WXGA** Channel **8**
 Location **Millwood, GA**
 Customer **GPTV**
 Antenna Type **TF-14HT-DC**

TABULATION OF ELEVATION PATTERN

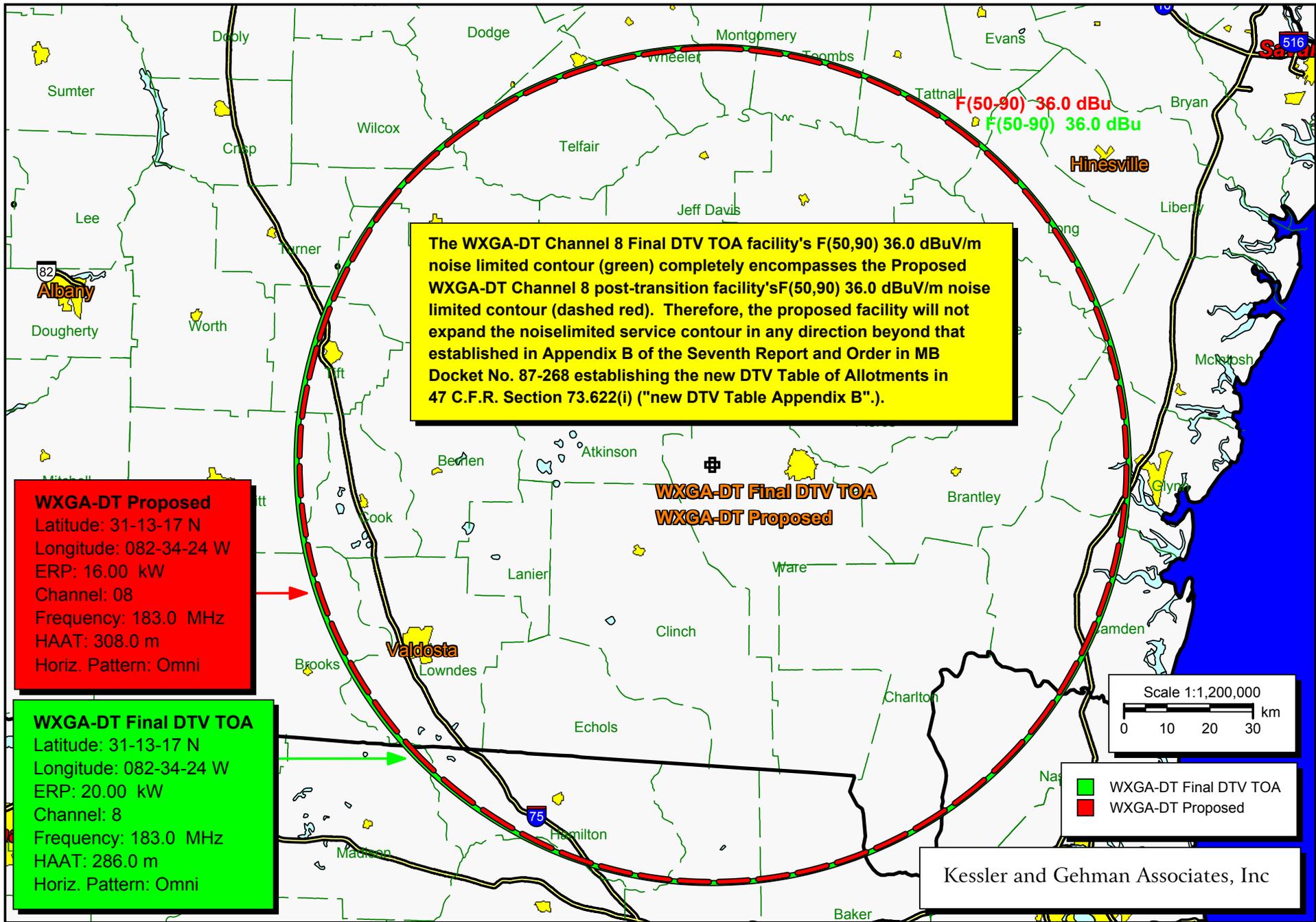
Elevation Pattern Drawing #: **14S141080-90**

Angle	Field										
-10.0	0.011	2.4	0.704	10.6	0.106	30.5	0.038	51.0	0.019	71.5	0.034
-9.5	0.060	2.6	0.636	10.8	0.092	31.0	0.026	51.5	0.028	72.0	0.028
-9.0	0.103	2.8	0.565	11.0	0.076	31.5	0.011	52.0	0.037	72.5	0.022
-8.5	0.130	3.0	0.492	11.5	0.032	32.0	0.005	52.5	0.046	73.0	0.018
-8.0	0.135	3.2	0.419	12.0	0.029	32.5	0.020	53.0	0.053	73.5	0.015
-7.5	0.115	3.4	0.346	12.5	0.065	33.0	0.033	53.5	0.057	74.0	0.015
-7.0	0.071	3.6	0.276	13.0	0.090	33.5	0.043	54.0	0.058	74.5	0.015
-6.5	0.017	3.8	0.210	13.5	0.098	34.0	0.049	54.5	0.056	75.0	0.016
-6.0	0.071	4.0	0.152	14.0	0.089	34.5	0.053	55.0	0.050	75.5	0.018
-5.5	0.143	4.2	0.108	14.5	0.063	35.0	0.055	55.5	0.043	76.0	0.019
-5.0	0.200	4.4	0.090	15.0	0.029	35.5	0.058	56.0	0.034	76.5	0.020
-4.5	0.229	4.6	0.104	15.5	0.030	36.0	0.061	56.5	0.028	77.0	0.021
-4.0	0.220	4.8	0.131	16.0	0.068	36.5	0.065	57.0	0.030	77.5	0.022
-3.5	0.169	5.0	0.161	16.5	0.102	37.0	0.069	57.5	0.041	78.0	0.023
-3.0	0.096	5.2	0.187	17.0	0.125	37.5	0.072	58.0	0.057	78.5	0.023
-2.8	0.087	5.4	0.207	17.5	0.134	38.0	0.071	58.5	0.074	79.0	0.023
-2.6	0.110	5.6	0.221	18.0	0.129	38.5	0.068	59.0	0.092	79.5	0.023
-2.4	0.159	5.8	0.228	18.5	0.111	39.0	0.062	59.5	0.109	80.0	0.023
-2.2	0.220	6.0	0.228	19.0	0.084	39.5	0.054	60.0	0.124	80.5	0.023
-2.0	0.287	6.2	0.223	19.5	0.054	40.0	0.044	60.5	0.138	81.0	0.023
-1.8	0.359	6.4	0.212	20.0	0.030	40.5	0.034	61.0	0.151	81.5	0.022
-1.6	0.432	6.6	0.195	20.5	0.029	41.0	0.028	61.5	0.161	82.0	0.022
-1.4	0.506	6.8	0.175	21.0	0.041	41.5	0.026	62.0	0.169	82.5	0.022
-1.2	0.579	7.0	0.151	21.5	0.049	42.0	0.028	62.5	0.174	83.0	0.021
-1.0	0.650	7.2	0.125	22.0	0.047	42.5	0.031	63.0	0.177	83.5	0.021
-0.8	0.717	7.4	0.097	22.5	0.038	43.0	0.032	63.5	0.177	84.0	0.020
-0.6	0.780	7.6	0.069	23.0	0.023	43.5	0.031	64.0	0.175	84.5	0.020
-0.4	0.836	7.8	0.043	23.5	0.012	44.0	0.028	64.5	0.170	85.0	0.020
-0.2	0.886	8.0	0.027	24.0	0.022	44.5	0.023	65.0	0.164	85.5	0.019
0.0	0.927	8.2	0.035	24.5	0.037	45.0	0.019	65.5	0.156	86.0	0.019
0.2	0.960	8.4	0.055	25.0	0.046	45.5	0.020	66.0	0.147	86.5	0.018
0.4	0.983	8.6	0.076	25.5	0.049	46.0	0.024	66.5	0.137	87.0	0.018
0.6	0.996	8.8	0.094	26.0	0.045	46.5	0.030	67.0	0.126	87.5	0.018
0.8	1.000	9.0	0.110	26.5	0.034	47.0	0.036	67.5	0.114	88.0	0.018
1.0	0.994	9.2	0.122	27.0	0.018	47.5	0.040	68.0	0.103	88.5	0.017
1.2	0.978	9.4	0.130	27.5	0.004	48.0	0.041	68.5	0.092	89.0	0.017
1.4	0.952	9.6	0.134	28.0	0.018	48.5	0.039	69.0	0.080	89.5	0.017
1.6	0.917	9.8	0.134	28.5	0.033	49.0	0.035	69.5	0.070	90.0	0.017
1.8	0.874	10.0	0.132	29.0	0.043	49.5	0.028	70.0	0.059		
2.0	0.824	10.2	0.127	29.5	0.047	50.0	0.021	70.5	0.050		
2.2	0.767	10.4	0.118	30.0	0.045	50.5	0.016	71.0	0.042		



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WXGA-DT CHANNEL 8
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 20080226 EXHIBIT 7



WXGA-DT Final DTV TOA vs. Proposed WXGA-DT

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

Call Letters: WXGA-DT Final DTV TOA
Latitude: 31-13-17 N
Longitude: 082-34-24 W
ERP: 20.00 kW
Channel: 8
Frequency: 183.0 MHz
AAT Height: 286.0 m
Horiz. Antenna Pattern: Omni

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 90.0 %
of Radials Calculated: 360
Field Strength: 36.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
0.0	97.1	290.2
1.0	97.1	290.2
2.0	97.1	290.1
3.0	97.1	289.8
4.0	97.1	289.5
5.0	97.1	289.3
6.0	97.1	289.0
7.0	97.1	288.8
8.0	97.1	288.6
9.0	97.1	288.6
10.0	97.1	288.5
11.0	97.1	288.5
12.0	97.1	288.5
13.0	97.1	288.5
14.0	97.1	288.5
15.0	97.1	288.5
16.0	97.1	288.5
17.0	97.1	288.4
18.0	97.1	288.3
19.0	97.1	288.2
20.0	97.1	288.1
21.0	97.1	288.2
22.0	97.1	288.2
23.0	97.1	288.2
24.0	97.1	288.2
25.0	97.0	288.0
26.0	97.0	288.0
27.0	97.0	287.9
28.0	97.0	287.8
29.0	97.0	287.7
30.0	97.0	287.7
31.0	97.0	287.7
32.0	97.0	287.7
33.0	97.0	287.8
34.0	97.0	287.7
35.0	97.0	287.6
36.0	97.0	287.5
37.0	97.0	287.6

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

38.0	97.0	287.5
39.0	97.0	287.5
40.0	97.0	287.4
41.0	97.0	287.4
42.0	97.0	287.3
43.0	97.0	287.3
44.0	97.0	287.4
45.0	97.0	287.5
46.0	97.0	287.6
47.0	97.0	287.7
48.0	97.0	287.6
49.0	97.0	287.6
50.0	97.0	287.5
51.0	97.0	287.5
52.0	97.0	287.3
53.0	97.0	286.8
54.0	97.0	286.2
55.0	97.0	286.0
56.0	97.0	286.0
57.0	97.0	285.9
58.0	97.0	285.8
59.0	97.0	285.7
60.0	96.9	285.7
61.0	96.9	285.5
62.0	96.9	285.4
63.0	96.9	285.1
64.0	96.9	284.8
65.0	96.9	284.4
66.0	96.9	283.9
67.0	96.9	283.7
68.0	96.9	283.6
69.0	96.9	283.5
70.0	96.9	283.5
71.0	96.9	283.4
72.0	96.9	283.4
73.0	96.9	283.4
74.0	96.9	283.4
75.0	96.9	283.4
76.0	96.9	283.4
77.0	96.9	283.4
78.0	96.9	283.4
79.0	96.9	283.4
80.0	96.9	283.4
81.0	96.9	283.4
82.0	96.9	283.5
83.0	96.9	283.5
84.0	96.9	283.5
85.0	96.9	283.6
86.0	96.9	283.6
87.0	96.9	283.6
88.0	96.9	283.6
89.0	96.9	283.6
90.0	96.9	283.6
91.0	96.9	283.6
92.0	96.9	283.7
93.0	96.9	283.7
94.0	96.9	283.8

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

95.0	96.9	283.8
96.0	96.9	283.8
97.0	96.9	283.8
98.0	96.9	283.8
99.0	96.9	283.8
100.0	96.9	283.8
101.0	96.9	283.8
102.0	96.9	283.8
103.0	96.9	283.8
104.0	96.9	283.8
105.0	96.9	283.8
106.0	96.9	283.9
107.0	96.9	283.9
108.0	96.9	283.9
109.0	96.9	283.9
110.0	96.9	284.0
111.0	96.9	284.1
112.0	96.9	284.1
113.0	96.9	284.2
114.0	96.9	284.4
115.0	96.9	284.5
116.0	96.9	284.6
117.0	96.9	284.7
118.0	96.9	284.8
119.0	96.9	285.1
120.0	96.9	285.4
121.0	96.9	285.7
122.0	97.0	286.0
123.0	97.0	286.2
124.0	97.0	286.5
125.0	97.0	286.9
126.0	97.0	287.2
127.0	97.0	287.5
128.0	97.0	287.7
129.0	97.0	287.9
130.0	97.1	288.1
131.0	97.1	288.2
132.0	97.1	288.3
133.0	97.1	288.3
134.0	97.1	288.3
135.0	97.1	288.5
136.0	97.1	288.8
137.0	97.1	289.1
138.0	97.1	289.2
139.0	97.1	289.3
140.0	97.1	289.3
141.0	97.1	289.4
142.0	97.1	289.4
143.0	97.1	289.5
144.0	97.1	289.6
145.0	97.1	289.6
146.0	97.1	289.7
147.0	97.1	289.7
148.0	97.1	289.8
149.0	97.1	289.9
150.0	97.1	290.0
151.0	97.1	290.2

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

152.0	97.2	290.3
153.0	97.2	290.4
154.0	97.2	290.5
155.0	97.2	290.6
156.0	97.2	290.6
157.0	97.2	290.6
158.0	97.2	290.6
159.0	97.2	290.6
160.0	97.2	290.6
161.0	97.2	290.6
162.0	97.2	290.7
163.0	97.2	290.8
164.0	97.2	290.9
165.0	97.2	290.9
166.0	97.2	290.9
167.0	97.2	291.0
168.0	97.2	291.0
169.0	97.2	291.0
170.0	97.2	291.0
171.0	97.2	291.1
172.0	97.2	291.1
173.0	97.2	291.2
174.0	97.2	291.2
175.0	97.2	291.2
176.0	97.2	291.1
177.0	97.2	291.1
178.0	97.2	291.1
179.0	97.2	291.1
180.0	97.2	291.1
181.0	97.2	291.1
182.0	97.2	291.1
183.0	97.2	291.1
184.0	97.2	291.1
185.0	97.2	291.1
186.0	97.2	291.0
187.0	97.2	290.8
188.0	97.2	290.6
189.0	97.2	290.5
190.0	97.1	290.2
191.0	97.1	290.1
192.0	97.1	289.9
193.0	97.1	289.7
194.0	97.1	289.5
195.0	97.1	289.5
196.0	97.1	289.3
197.0	97.1	289.1
198.0	97.1	288.8
199.0	97.1	288.5
200.0	97.1	288.2
201.0	97.0	287.8
202.0	97.0	287.5
203.0	97.0	287.0
204.0	97.0	286.6
205.0	97.0	286.1
206.0	97.0	285.7
207.0	96.9	285.2
208.0	96.9	284.8

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

209.0	96.9	284.4
210.0	96.9	284.0
211.0	96.9	283.6
212.0	96.9	283.3
213.0	96.8	283.0
214.0	96.8	282.8
215.0	96.8	282.5
216.0	96.8	282.2
217.0	96.8	282.0
218.0	96.8	281.7
219.0	96.8	281.6
220.0	96.8	281.4
221.0	96.8	281.1
222.0	96.8	280.9
223.0	96.8	280.6
224.0	96.7	280.4
225.0	96.7	280.1
226.0	96.7	279.8
227.0	96.7	279.6
228.0	96.7	279.2
229.0	96.7	278.9
230.0	96.7	278.6
231.0	96.7	278.3
232.0	96.7	278.0
233.0	96.7	277.8
234.0	96.6	277.5
235.0	96.6	277.3
236.0	96.6	277.2
237.0	96.6	277.0
238.0	96.6	277.0
239.0	96.6	276.9
240.0	96.6	276.9
241.0	96.6	276.8
242.0	96.6	276.8
243.0	96.6	276.8
244.0	96.6	276.9
245.0	96.6	277.0
246.0	96.6	277.1
247.0	96.6	277.2
248.0	96.6	277.3
249.0	96.6	277.4
250.0	96.6	277.4
251.0	96.6	277.4
252.0	96.6	277.5
253.0	96.6	277.4
254.0	96.6	277.4
255.0	96.6	277.3
256.0	96.6	277.3
257.0	96.6	277.2
258.0	96.6	277.1
259.0	96.6	277.0
260.0	96.6	277.0
261.0	96.6	277.0
262.0	96.6	277.1
263.0	96.6	277.3
264.0	96.6	277.4
265.0	96.6	277.4

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

266.0	96.6	277.5
267.0	96.6	277.7
268.0	96.7	277.8
269.0	96.7	278.0
270.0	96.7	278.2
271.0	96.7	278.3
272.0	96.7	278.5
273.0	96.7	278.7
274.0	96.7	279.1
275.0	96.7	279.3
276.0	96.7	279.3
277.0	96.7	279.1
278.0	96.7	278.6
279.0	96.7	278.2
280.0	96.7	277.8
281.0	96.6	277.4
282.0	96.6	277.2
283.0	96.6	277.0
284.0	96.6	276.9
285.0	96.6	276.9
286.0	96.6	277.0
287.0	96.6	277.3
288.0	96.7	277.7
289.0	96.7	278.1
290.0	96.7	278.6
291.0	96.7	278.9
292.0	96.7	279.3
293.0	96.7	280.0
294.0	96.8	280.6
295.0	96.8	281.1
296.0	96.8	281.5
297.0	96.8	281.8
298.0	96.8	282.3
299.0	96.8	282.9
300.0	96.9	283.6
301.0	96.9	284.2
302.0	96.9	284.8
303.0	96.9	285.4
304.0	97.0	286.0
305.0	97.0	286.9
306.0	97.1	288.2
307.0	97.1	289.0
308.0	97.1	289.1
309.0	97.1	289.1
310.0	97.1	289.2
311.0	97.1	289.2
312.0	97.1	289.3
313.0	97.1	289.2
314.0	97.1	289.1
315.0	97.1	288.8
316.0	97.1	288.6
317.0	97.1	288.5
318.0	97.1	288.3
319.0	97.0	288.0
320.0	97.0	287.6
321.0	97.0	287.3
322.0	97.0	287.0

Distance to Contour Values for WXGA-DT Channel 8 Final DTV TOA Facility

323.0	97.0	286.8
324.0	97.0	286.5
325.0	97.0	286.3
326.0	97.0	286.3
327.0	97.0	286.5
328.0	97.0	287.0
329.0	97.0	287.3
330.0	97.0	287.6
331.0	97.0	287.8
332.0	97.0	287.9
333.0	97.0	287.9
334.0	97.0	287.6
335.0	97.0	287.3
336.0	97.0	287.1
337.0	97.0	287.0
338.0	97.0	287.0
339.0	97.0	287.0
340.0	97.0	287.0
341.0	97.0	287.1
342.0	97.0	287.1
343.0	97.0	287.1
344.0	97.0	287.2
345.0	97.0	287.2
346.0	97.0	287.2
347.0	97.0	287.3
348.0	97.0	287.3
349.0	97.0	287.4
350.0	97.0	287.6
351.0	97.0	287.8
352.0	97.0	287.9
353.0	97.1	288.1
354.0	97.1	288.4
355.0	97.1	288.6
356.0	97.1	289.1
357.0	97.1	289.5
358.0	97.1	290.0
359.0	97.1	290.1

Average HAAT for radials shown: 285.3 m

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

Call Letters: WXGA-DT Proposed
 Latitude: 31-13-17 N
 Longitude: 082-34-24 W
 ERP: 16.00 kW
 Channel: 08
 Frequency: 183.0 MHz
 AAT Height: 308.0 m
 Horiz. Antenna Pattern: Omni

Type of contour: FCC
 Location Variability: 50.0 %
 Time Variability: 90.0 %
 # of Radials Calculated: 360
 Field Strength: 36.00 dBuV/m

Primary Terrain: 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	96.8	312.3
1.0	96.8	312.3
2.0	96.8	312.2
3.0	96.8	311.9
4.0	96.8	311.6
5.0	96.8	311.4
6.0	96.7	311.1
7.0	96.7	310.8
8.0	96.7	310.7
9.0	96.7	310.6
10.0	96.7	310.6
11.0	96.7	310.6
12.0	96.7	310.6
13.0	96.7	310.6
14.0	96.7	310.6
15.0	96.7	310.5
16.0	96.7	310.5
17.0	96.7	310.5
18.0	96.7	310.4
19.0	96.7	310.3
20.0	96.7	310.2
21.0	96.7	310.3
22.0	96.7	310.3
23.0	96.7	310.3
24.0	96.7	310.3
25.0	96.7	310.1
26.0	96.7	310.1
27.0	96.7	309.9
28.0	96.7	309.9
29.0	96.7	309.8
30.0	96.7	309.8
31.0	96.7	309.8
32.0	96.7	309.8
33.0	96.7	309.9
34.0	96.7	309.8
35.0	96.6	309.7
36.0	96.6	309.6
37.0	96.6	309.7

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

38.0	96.6	309.6
39.0	96.6	309.5
40.0	96.6	309.5
41.0	96.6	309.5
42.0	96.6	309.4
43.0	96.6	309.4
44.0	96.6	309.5
45.0	96.6	309.6
46.0	96.6	309.7
47.0	96.6	309.8
48.0	96.6	309.7
49.0	96.6	309.7
50.0	96.6	309.6
51.0	96.6	309.6
52.0	96.6	309.4
53.0	96.6	308.9
54.0	96.5	308.3
55.0	96.5	308.1
56.0	96.5	308.0
57.0	96.5	308.0
58.0	96.5	307.9
59.0	96.5	307.8
60.0	96.5	307.8
61.0	96.5	307.6
62.0	96.5	307.5
63.0	96.5	307.2
64.0	96.4	306.9
65.0	96.4	306.4
66.0	96.4	306.0
67.0	96.4	305.8
68.0	96.3	305.7
69.0	96.3	305.6
70.0	96.3	305.6
71.0	96.3	305.5
72.0	96.3	305.5
73.0	96.3	305.5
74.0	96.3	305.5
75.0	96.3	305.5
76.0	96.3	305.5
77.0	96.3	305.5
78.0	96.3	305.5
79.0	96.3	305.5
80.0	96.3	305.5
81.0	96.3	305.5
82.0	96.3	305.6
83.0	96.3	305.6
84.0	96.3	305.6
85.0	96.3	305.7
86.0	96.3	305.7
87.0	96.3	305.7
88.0	96.3	305.7
89.0	96.3	305.7
90.0	96.3	305.7
91.0	96.3	305.7
92.0	96.3	305.8
93.0	96.4	305.8
94.0	96.4	305.8

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

95.0	96.4	305.9
96.0	96.4	305.9
97.0	96.4	305.9
98.0	96.4	305.9
99.0	96.4	305.9
100.0	96.4	305.9
101.0	96.4	305.9
102.0	96.4	305.9
103.0	96.4	305.9
104.0	96.4	305.9
105.0	96.4	305.9
106.0	96.4	305.9
107.0	96.4	306.0
108.0	96.4	306.0
109.0	96.4	306.0
110.0	96.4	306.0
111.0	96.4	306.1
112.0	96.4	306.2
113.0	96.4	306.3
114.0	96.4	306.5
115.0	96.4	306.6
116.0	96.4	306.6
117.0	96.4	306.7
118.0	96.4	306.9
119.0	96.5	307.2
120.0	96.5	307.5
121.0	96.5	307.8
122.0	96.5	308.1
123.0	96.5	308.3
124.0	96.6	308.6
125.0	96.6	309.0
126.0	96.6	309.3
127.0	96.6	309.6
128.0	96.7	309.8
129.0	96.7	310.0
130.0	96.7	310.2
131.0	96.7	310.3
132.0	96.7	310.4
133.0	96.7	310.4
134.0	96.7	310.4
135.0	96.7	310.6
136.0	96.7	310.9
137.0	96.8	311.1
138.0	96.8	311.3
139.0	96.8	311.4
140.0	96.8	311.4
141.0	96.8	311.5
142.0	96.8	311.5
143.0	96.8	311.6
144.0	96.8	311.7
145.0	96.8	311.7
146.0	96.8	311.8
147.0	96.8	311.8
148.0	96.8	311.9
149.0	96.8	312.0
150.0	96.8	312.1
151.0	96.8	312.2

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

152.0	96.8	312.4
153.0	96.9	312.5
154.0	96.9	312.6
155.0	96.9	312.7
156.0	96.9	312.7
157.0	96.9	312.7
158.0	96.9	312.7
159.0	96.9	312.7
160.0	96.9	312.7
161.0	96.9	312.7
162.0	96.9	312.8
163.0	96.9	312.9
164.0	96.9	313.0
165.0	96.9	313.0
166.0	96.9	313.0
167.0	96.9	313.1
168.0	96.9	313.1
169.0	96.9	313.1
170.0	96.9	313.1
171.0	96.9	313.2
172.0	96.9	313.2
173.0	96.9	313.3
174.0	96.9	313.3
175.0	96.9	313.3
176.0	96.9	313.2
177.0	96.9	313.2
178.0	96.9	313.2
179.0	96.9	313.2
180.0	96.9	313.2
181.0	96.9	313.2
182.0	96.9	313.2
183.0	96.9	313.2
184.0	96.9	313.2
185.0	96.9	313.2
186.0	96.9	313.1
187.0	96.9	312.8
188.0	96.9	312.7
189.0	96.9	312.6
190.0	96.8	312.3
191.0	96.8	312.2
192.0	96.8	312.0
193.0	96.8	311.8
194.0	96.8	311.6
195.0	96.8	311.5
196.0	96.8	311.4
197.0	96.8	311.2
198.0	96.7	310.9
199.0	96.7	310.6
200.0	96.7	310.3
201.0	96.7	309.9
202.0	96.6	309.6
203.0	96.6	309.1
204.0	96.6	308.7
205.0	96.5	308.2
206.0	96.5	307.8
207.0	96.5	307.3
208.0	96.4	306.9

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

209.0	96.4	306.5
210.0	96.4	306.1
211.0	96.3	305.7
212.0	96.3	305.4
213.0	96.3	305.1
214.0	96.3	304.8
215.0	96.3	304.6
216.0	96.2	304.3
217.0	96.2	304.1
218.0	96.2	303.8
219.0	96.2	303.7
220.0	96.2	303.4
221.0	96.2	303.2
222.0	96.1	303.0
223.0	96.1	302.7
224.0	96.1	302.5
225.0	96.1	302.2
226.0	96.1	301.9
227.0	96.1	301.6
228.0	96.0	301.3
229.0	96.0	301.0
230.0	96.0	300.7
231.0	96.0	300.4
232.0	96.0	300.1
233.0	95.9	299.9
234.0	95.9	299.6
235.0	95.9	299.4
236.0	95.9	299.3
237.0	95.9	299.1
238.0	95.9	299.1
239.0	95.9	299.0
240.0	95.9	299.0
241.0	95.9	298.9
242.0	95.9	298.9
243.0	95.9	298.9
244.0	95.9	299.0
245.0	95.9	299.1
246.0	95.9	299.2
247.0	95.9	299.3
248.0	95.9	299.4
249.0	95.9	299.4
250.0	95.9	299.5
251.0	95.9	299.5
252.0	95.9	299.6
253.0	95.9	299.5
254.0	95.9	299.5
255.0	95.9	299.4
256.0	95.9	299.3
257.0	95.9	299.3
258.0	95.9	299.2
259.0	95.9	299.1
260.0	95.9	299.1
261.0	95.9	299.1
262.0	95.9	299.2
263.0	95.9	299.4
264.0	95.9	299.4
265.0	95.9	299.5

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

266.0	95.9	299.6
267.0	95.9	299.7
268.0	95.9	299.9
269.0	96.0	300.1
270.0	96.0	300.3
271.0	96.0	300.4
272.0	96.0	300.5
273.0	96.0	300.8
274.0	96.0	301.2
275.0	96.0	301.4
276.0	96.0	301.4
277.0	96.0	301.1
278.0	96.0	300.7
279.0	96.0	300.3
280.0	95.9	299.8
281.0	95.9	299.5
282.0	95.9	299.3
283.0	95.9	299.1
284.0	95.9	299.0
285.0	95.9	299.0
286.0	95.9	299.1
287.0	95.9	299.4
288.0	95.9	299.8
289.0	96.0	300.2
290.0	96.0	300.7
291.0	96.0	301.0
292.0	96.0	301.4
293.0	96.1	302.0
294.0	96.1	302.7
295.0	96.2	303.2
296.0	96.2	303.6
297.0	96.2	303.9
298.0	96.3	304.4
299.0	96.3	305.0
300.0	96.3	305.7
301.0	96.4	306.2
302.0	96.4	306.9
303.0	96.5	307.5
304.0	96.5	308.1
305.0	96.6	309.0
306.0	96.7	310.2
307.0	96.8	311.1
308.0	96.8	311.2
309.0	96.8	311.2
310.0	96.8	311.3
311.0	96.8	311.3
312.0	96.8	311.3
313.0	96.8	311.3
314.0	96.8	311.2
315.0	96.7	310.9
316.0	96.7	310.7
317.0	96.7	310.5
318.0	96.7	310.4
319.0	96.7	310.0
320.0	96.6	309.7
321.0	96.6	309.4
322.0	96.6	309.1

Distance to Contour Values for WXGA-DT Channel 8 Proposed Facility

323.0	96.6	308.9
324.0	96.6	308.6
325.0	96.5	308.4
326.0	96.5	308.4
327.0	96.6	308.6
328.0	96.6	309.1
329.0	96.6	309.4
330.0	96.6	309.6
331.0	96.7	309.9
332.0	96.7	310.0
333.0	96.7	310.0
334.0	96.6	309.7
335.0	96.6	309.4
336.0	96.6	309.2
337.0	96.6	309.1
338.0	96.6	309.1
339.0	96.6	309.1
340.0	96.6	309.1
341.0	96.6	309.2
342.0	96.6	309.2
343.0	96.6	309.2
344.0	96.6	309.3
345.0	96.6	309.3
346.0	96.6	309.3
347.0	96.6	309.3
348.0	96.6	309.4
349.0	96.6	309.5
350.0	96.6	309.7
351.0	96.7	309.8
352.0	96.7	310.0
353.0	96.7	310.2
354.0	96.7	310.5
355.0	96.7	310.7
356.0	96.8	311.1
357.0	96.8	311.6
358.0	96.8	312.1
359.0	96.8	312.2

Average HAAT for radials shown: 307.4 m

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

Radial	WXGA-DT Final DTV TOA distance to contours (km)	WXGA-DT Proposed distance to contours (km)	PASS OR FAIL	Difference
0	97.1	96.8	PASS	0.3
1	97.1	96.8	PASS	0.3
2	97.1	96.8	PASS	0.3
3	97.1	96.8	PASS	0.3
4	97.1	96.8	PASS	0.3
5	97.1	96.8	PASS	0.3
6	97.1	96.7	PASS	0.4
7	97.1	96.7	PASS	0.4
8	97.1	96.7	PASS	0.4
9	97.1	96.7	PASS	0.4
10	97.1	96.7	PASS	0.4
11	97.1	96.7	PASS	0.4
12	97.1	96.7	PASS	0.4
13	97.1	96.7	PASS	0.4
14	97.1	96.7	PASS	0.4
15	97.1	96.7	PASS	0.4
16	97.1	96.7	PASS	0.4
17	97.1	96.7	PASS	0.4
18	97.1	96.7	PASS	0.4
19	97.1	96.7	PASS	0.4
20	97.1	96.7	PASS	0.4
21	97.1	96.7	PASS	0.4
22	97.1	96.7	PASS	0.4
23	97.1	96.7	PASS	0.4
24	97.1	96.7	PASS	0.4
25	97.0	96.7	PASS	0.3
26	97.0	96.7	PASS	0.3
27	97.0	96.7	PASS	0.3
28	97.0	96.7	PASS	0.3
29	97.0	96.7	PASS	0.3
30	97.0	96.7	PASS	0.3
31	97.0	96.7	PASS	0.3
32	97.0	96.7	PASS	0.3
33	97.0	96.7	PASS	0.3
34	97.0	96.7	PASS	0.3
35	97.0	96.6	PASS	0.4
36	97.0	96.6	PASS	0.4
37	97.0	96.6	PASS	0.4
38	97.0	96.6	PASS	0.4
39	97.0	96.6	PASS	0.4
40	97.0	96.6	PASS	0.4
41	97.0	96.6	PASS	0.4
42	97.0	96.6	PASS	0.4
43	97.0	96.6	PASS	0.4
44	97.0	96.6	PASS	0.4
45	97.0	96.6	PASS	0.4
46	97.0	96.6	PASS	0.4
47	97.0	96.6	PASS	0.4

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

48	97.0	96.6	PASS	0.4
49	97.0	96.6	PASS	0.4
50	97.0	96.6	PASS	0.4
51	97.0	96.6	PASS	0.4
52	97.0	96.6	PASS	0.4
53	97.0	96.6	PASS	0.4
54	97.0	96.5	PASS	0.5
55	97.0	96.5	PASS	0.5
56	97.0	96.5	PASS	0.5
57	97.0	96.5	PASS	0.5
58	97.0	96.5	PASS	0.5
59	97.0	96.5	PASS	0.5
60	96.9	96.5	PASS	0.4
61	96.9	96.5	PASS	0.4
62	96.9	96.5	PASS	0.4
63	96.9	96.5	PASS	0.4
64	96.9	96.4	PASS	0.5
65	96.9	96.4	PASS	0.5
66	96.9	96.4	PASS	0.5
67	96.9	96.4	PASS	0.5
68	96.9	96.3	PASS	0.6
69	96.9	96.3	PASS	0.6
70	96.9	96.3	PASS	0.6
71	96.9	96.3	PASS	0.6
72	96.9	96.3	PASS	0.6
73	96.9	96.3	PASS	0.6
74	96.9	96.3	PASS	0.6
75	96.9	96.3	PASS	0.6
76	96.9	96.3	PASS	0.6
77	96.9	96.3	PASS	0.6
78	96.9	96.3	PASS	0.6
79	96.9	96.3	PASS	0.6
80	96.9	96.3	PASS	0.6
81	96.9	96.3	PASS	0.6
82	96.9	96.3	PASS	0.6
83	96.9	96.3	PASS	0.6
84	96.9	96.3	PASS	0.6
85	96.9	96.3	PASS	0.6
86	96.9	96.3	PASS	0.6
87	96.9	96.3	PASS	0.6
88	96.9	96.3	PASS	0.6
89	96.9	96.3	PASS	0.6
90	96.9	96.3	PASS	0.6
91	96.9	96.3	PASS	0.6
92	96.9	96.3	PASS	0.6
93	96.9	96.4	PASS	0.5
94	96.9	96.4	PASS	0.5
95	96.9	96.4	PASS	0.5
96	96.9	96.4	PASS	0.5
97	96.9	96.4	PASS	0.5
98	96.9	96.4	PASS	0.5

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

99	96.9	96.4	PASS	0.5
100	96.9	96.4	PASS	0.5
101	96.9	96.4	PASS	0.5
102	96.9	96.4	PASS	0.5
103	96.9	96.4	PASS	0.5
104	96.9	96.4	PASS	0.5
105	96.9	96.4	PASS	0.5
106	96.9	96.4	PASS	0.5
107	96.9	96.4	PASS	0.5
108	96.9	96.4	PASS	0.5
109	96.9	96.4	PASS	0.5
110	96.9	96.4	PASS	0.5
111	96.9	96.4	PASS	0.5
112	96.9	96.4	PASS	0.5
113	96.9	96.4	PASS	0.5
114	96.9	96.4	PASS	0.5
115	96.9	96.4	PASS	0.5
116	96.9	96.4	PASS	0.5
117	96.9	96.4	PASS	0.5
118	96.9	96.4	PASS	0.5
119	96.9	96.5	PASS	0.4
120	96.9	96.5	PASS	0.4
121	96.9	96.5	PASS	0.4
122	97.0	96.5	PASS	0.5
123	97.0	96.5	PASS	0.5
124	97.0	96.6	PASS	0.4
125	97.0	96.6	PASS	0.4
126	97.0	96.6	PASS	0.4
127	97.0	96.6	PASS	0.4
128	97.0	96.7	PASS	0.3
129	97.0	96.7	PASS	0.3
130	97.1	96.7	PASS	0.4
131	97.1	96.7	PASS	0.4
132	97.1	96.7	PASS	0.4
133	97.1	96.7	PASS	0.4
134	97.1	96.7	PASS	0.4
135	97.1	96.7	PASS	0.4
136	97.1	96.7	PASS	0.4
137	97.1	96.8	PASS	0.3
138	97.1	96.8	PASS	0.3
139	97.1	96.8	PASS	0.3
140	97.1	96.8	PASS	0.3
141	97.1	96.8	PASS	0.3
142	97.1	96.8	PASS	0.3
143	97.1	96.8	PASS	0.3
144	97.1	96.8	PASS	0.3
145	97.1	96.8	PASS	0.3
146	97.1	96.8	PASS	0.3
147	97.1	96.8	PASS	0.3
148	97.1	96.8	PASS	0.3
149	97.1	96.8	PASS	0.3

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

150	97.1	96.8	PASS	0.3
151	97.1	96.8	PASS	0.3
152	97.2	96.8	PASS	0.4
153	97.2	96.9	PASS	0.3
154	97.2	96.9	PASS	0.3
155	97.2	96.9	PASS	0.3
156	97.2	96.9	PASS	0.3
157	97.2	96.9	PASS	0.3
158	97.2	96.9	PASS	0.3
159	97.2	96.9	PASS	0.3
160	97.2	96.9	PASS	0.3
161	97.2	96.9	PASS	0.3
162	97.2	96.9	PASS	0.3
163	97.2	96.9	PASS	0.3
164	97.2	96.9	PASS	0.3
165	97.2	96.9	PASS	0.3
166	97.2	96.9	PASS	0.3
167	97.2	96.9	PASS	0.3
168	97.2	96.9	PASS	0.3
169	97.2	96.9	PASS	0.3
170	97.2	96.9	PASS	0.3
171	97.2	96.9	PASS	0.3
172	97.2	96.9	PASS	0.3
173	97.2	96.9	PASS	0.3
174	97.2	96.9	PASS	0.3
175	97.2	96.9	PASS	0.3
176	97.2	96.9	PASS	0.3
177	97.2	96.9	PASS	0.3
178	97.2	96.9	PASS	0.3
179	97.2	96.9	PASS	0.3
180	97.2	96.9	PASS	0.3
181	97.2	96.9	PASS	0.3
182	97.2	96.9	PASS	0.3
183	97.2	96.9	PASS	0.3
184	97.2	96.9	PASS	0.3
185	97.2	96.9	PASS	0.3
186	97.2	96.9	PASS	0.3
187	97.2	96.9	PASS	0.3
188	97.2	96.9	PASS	0.3
189	97.2	96.9	PASS	0.3
190	97.1	96.8	PASS	0.3
191	97.1	96.8	PASS	0.3
192	97.1	96.8	PASS	0.3
193	97.1	96.8	PASS	0.3
194	97.1	96.8	PASS	0.3
195	97.1	96.8	PASS	0.3
196	97.1	96.8	PASS	0.3
197	97.1	96.8	PASS	0.3
198	97.1	96.7	PASS	0.4
199	97.1	96.7	PASS	0.4
200	97.1	96.7	PASS	0.4

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

201	97.0	96.7	PASS	0.3
202	97.0	96.6	PASS	0.4
203	97.0	96.6	PASS	0.4
204	97.0	96.6	PASS	0.4
205	97.0	96.5	PASS	0.5
206	97.0	96.5	PASS	0.5
207	96.9	96.5	PASS	0.4
208	96.9	96.4	PASS	0.5
209	96.9	96.4	PASS	0.5
210	96.9	96.4	PASS	0.5
211	96.9	96.3	PASS	0.6
212	96.9	96.3	PASS	0.6
213	96.8	96.3	PASS	0.5
214	96.8	96.3	PASS	0.5
215	96.8	96.3	PASS	0.5
216	96.8	96.2	PASS	0.6
217	96.8	96.2	PASS	0.6
218	96.8	96.2	PASS	0.6
219	96.8	96.2	PASS	0.6
220	96.8	96.2	PASS	0.6
221	96.8	96.2	PASS	0.6
222	96.8	96.1	PASS	0.7
223	96.8	96.1	PASS	0.7
224	96.7	96.1	PASS	0.6
225	96.7	96.1	PASS	0.6
226	96.7	96.1	PASS	0.6
227	96.7	96.1	PASS	0.6
228	96.7	96.0	PASS	0.7
229	96.7	96.0	PASS	0.7
230	96.7	96.0	PASS	0.7
231	96.7	96.0	PASS	0.7
232	96.7	96.0	PASS	0.7
233	96.7	95.9	PASS	0.8
234	96.6	95.9	PASS	0.7
235	96.6	95.9	PASS	0.7
236	96.6	95.9	PASS	0.7
237	96.6	95.9	PASS	0.7
238	96.6	95.9	PASS	0.7
239	96.6	95.9	PASS	0.7
240	96.6	95.9	PASS	0.7
241	96.6	95.9	PASS	0.7
242	96.6	95.9	PASS	0.7
243	96.6	95.9	PASS	0.7
244	96.6	95.9	PASS	0.7
245	96.6	95.9	PASS	0.7
246	96.6	95.9	PASS	0.7
247	96.6	95.9	PASS	0.7
248	96.6	95.9	PASS	0.7
249	96.6	95.9	PASS	0.7
250	96.6	95.9	PASS	0.7
251	96.6	95.9	PASS	0.7

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

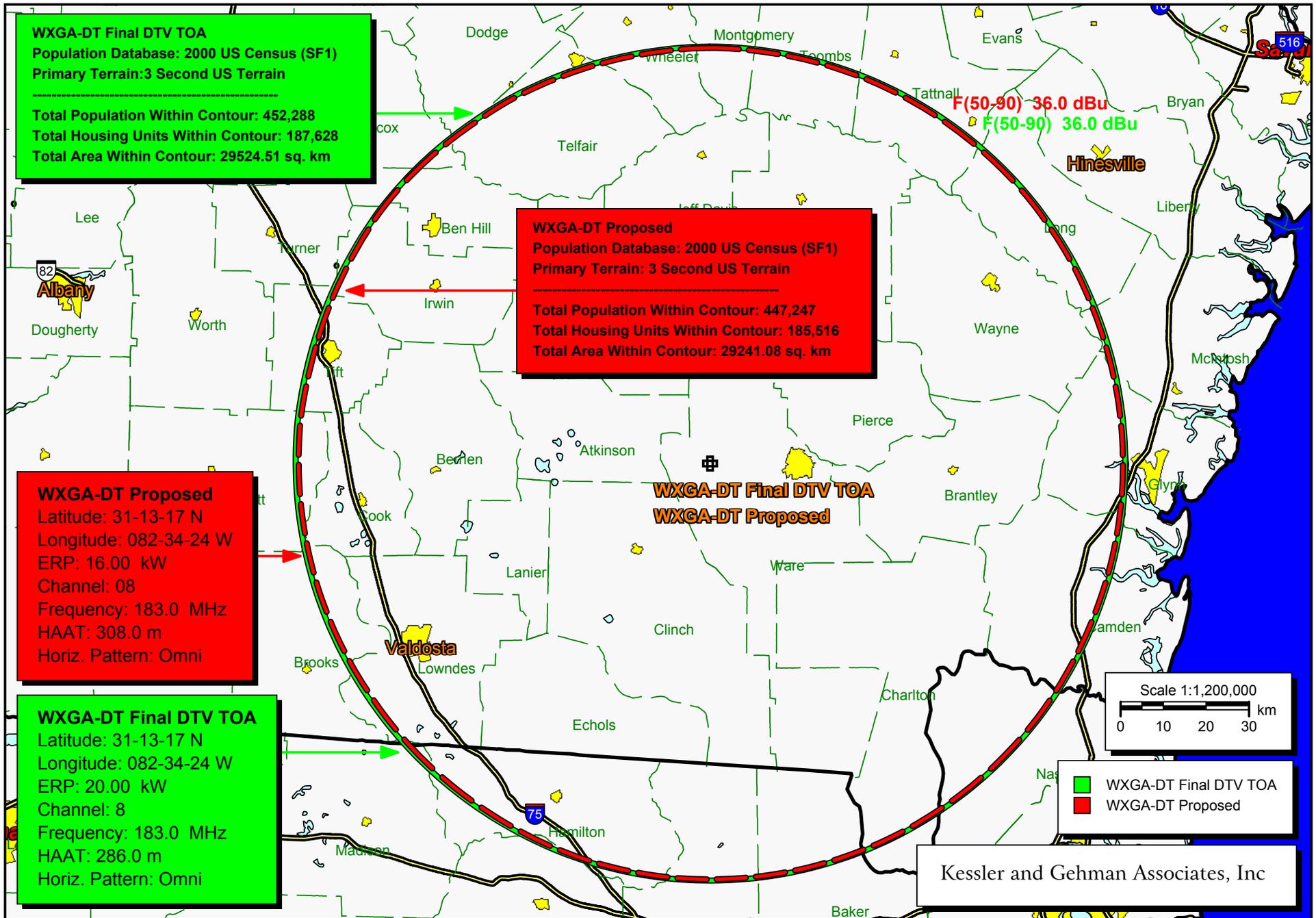
252	96.6	95.9	PASS	0.7
253	96.6	95.9	PASS	0.7
254	96.6	95.9	PASS	0.7
255	96.6	95.9	PASS	0.7
256	96.6	95.9	PASS	0.7
257	96.6	95.9	PASS	0.7
258	96.6	95.9	PASS	0.7
259	96.6	95.9	PASS	0.7
260	96.6	95.9	PASS	0.7
261	96.6	95.9	PASS	0.7
262	96.6	95.9	PASS	0.7
263	96.6	95.9	PASS	0.7
264	96.6	95.9	PASS	0.7
265	96.6	95.9	PASS	0.7
266	96.6	95.9	PASS	0.7
267	96.6	95.9	PASS	0.7
268	96.7	95.9	PASS	0.8
269	96.7	96.0	PASS	0.7
270	96.7	96.0	PASS	0.7
271	96.7	96.0	PASS	0.7
272	96.7	96.0	PASS	0.7
273	96.7	96.0	PASS	0.7
274	96.7	96.0	PASS	0.7
275	96.7	96.0	PASS	0.7
276	96.7	96.0	PASS	0.7
277	96.7	96.0	PASS	0.7
278	96.7	96.0	PASS	0.7
279	96.7	96.0	PASS	0.7
280	96.7	95.9	PASS	0.8
281	96.6	95.9	PASS	0.7
282	96.6	95.9	PASS	0.7
283	96.6	95.9	PASS	0.7
284	96.6	95.9	PASS	0.7
285	96.6	95.9	PASS	0.7
286	96.6	95.9	PASS	0.7
287	96.6	95.9	PASS	0.7
288	96.7	95.9	PASS	0.8
289	96.7	96.0	PASS	0.7
290	96.7	96.0	PASS	0.7
291	96.7	96.0	PASS	0.7
292	96.7	96.0	PASS	0.7
293	96.7	96.1	PASS	0.6
294	96.8	96.1	PASS	0.7
295	96.8	96.2	PASS	0.6
296	96.8	96.2	PASS	0.6
297	96.8	96.2	PASS	0.6
298	96.8	96.3	PASS	0.5
299	96.8	96.3	PASS	0.5
300	96.9	96.3	PASS	0.6
301	96.9	96.4	PASS	0.5
302	96.9	96.4	PASS	0.5

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

303	96.9	96.5	PASS	0.4
304	97.0	96.5	PASS	0.5
305	97.0	96.6	PASS	0.4
306	97.1	96.7	PASS	0.4
307	97.1	96.8	PASS	0.3
308	97.1	96.8	PASS	0.3
309	97.1	96.8	PASS	0.3
310	97.1	96.8	PASS	0.3
311	97.1	96.8	PASS	0.3
312	97.1	96.8	PASS	0.3
313	97.1	96.8	PASS	0.3
314	97.1	96.8	PASS	0.3
315	97.1	96.7	PASS	0.4
316	97.1	96.7	PASS	0.4
317	97.1	96.7	PASS	0.4
318	97.1	96.7	PASS	0.4
319	97.0	96.7	PASS	0.3
320	97.0	96.6	PASS	0.4
321	97.0	96.6	PASS	0.4
322	97.0	96.6	PASS	0.4
323	97.0	96.6	PASS	0.4
324	97.0	96.6	PASS	0.4
325	97.0	96.5	PASS	0.5
326	97.0	96.5	PASS	0.5
327	97.0	96.6	PASS	0.4
328	97.0	96.6	PASS	0.4
329	97.0	96.6	PASS	0.4
330	97.0	96.6	PASS	0.4
331	97.0	96.7	PASS	0.3
332	97.0	96.7	PASS	0.3
333	97.0	96.7	PASS	0.3
334	97.0	96.6	PASS	0.4
335	97.0	96.6	PASS	0.4
336	97.0	96.6	PASS	0.4
337	97.0	96.6	PASS	0.4
338	97.0	96.6	PASS	0.4
339	97.0	96.6	PASS	0.4
340	97.0	96.6	PASS	0.4
341	97.0	96.6	PASS	0.4
342	97.0	96.6	PASS	0.4
343	97.0	96.6	PASS	0.4
344	97.0	96.6	PASS	0.4
345	97.0	96.6	PASS	0.4
346	97.0	96.6	PASS	0.4
347	97.0	96.6	PASS	0.4
348	97.0	96.6	PASS	0.4
349	97.0	96.6	PASS	0.4
350	97.0	96.6	PASS	0.4
351	97.0	96.7	PASS	0.3
352	97.0	96.7	PASS	0.3
353	97.1	96.7	PASS	0.4

WXGA-DT (Final DTV TOA) and WXGA-DT (Proposed) Distance to Contour Comparison Chart

354	97.1	96.7	PASS	0.4
355	97.1	96.7	PASS	0.4
356	97.1	96.8	PASS	0.3
357	97.1	96.8	PASS	0.3
358	97.1	96.8	PASS	0.3
359	97.1	96.8	PASS	0.3



WXGA-DT Final DTV TOA Population and WXGA-DT Proposed Population