Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

ENGINEERING EXHIBIT

Application for Post-Transition Digital Television Station Construction Permit

prepared for

Gray Television Licensee, Inc.
WJHG-DT Panama CIty, FL
Facility ID 73136
Ch. 7 68 kW 210 m

Gray Television Licensee, Inc. ("Gray") is the licensee of television station WJHG-TV, analog Channel 7 and digital Channel 8, Panama City, FL. *Gray* herein proposes construction of the WJHG-DT post-transition digital facility on Channel 7. This channel was established in Appendix B of the Seventh Report and Order in MB Docket 87-278.

The instant proposal specifies an effective radiated power ("ERP") of 68 kW at 210 meters antenna height above average terrain ("HAAT"), with a directional antenna. The proposed coverage contour extends beyond that of the Appendix B parameters of 52 kW ERP and 244 meters HAAT.

The proposed antenna is a horizontally polarized Dielectric model THB-C3SP-3H/9H-1-B. The directional antenna's azimuthal and elevation patterns are depicted in **Figures 1** and **2**, respectively.[1] This is an existing antenna which is side-mounted on the existing WJHG-TV antenna supporting structure, having FCC Antenna Structure Registration ("ASR") number 1029017. No change to the overall structure height and no tower work are required to carry out this proposal.

A map is supplied as **Figure 3,** which depicts the standard predicted coverage contours. This map includes the location of Panama City, WJHG-DT's principal community. As demonstrated thereon, the proposed facility complies with §73.625(a)(1), as the entire principal community will be encompassed by the 43 dBμ contour.

[1] These patterns are supplied in terms of relative field. In recent years, FCC Staff have not required pattern data in dBk format however such patterns are available upon request.

The proposed WJHG-DT facility's predicted service population provides a 103.5 percent match of the Appendix B facility, as detailed in the table below.

Post-Transition Population Summary

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	375,293	387,119
Not affected by terrain losses	374,076	386,223
Lost to all interference	1,424	430
Net DTV Service	**372,652**	**385,793**
Match of Appendix B	---	**103.53%**

Freeze Waiver Request

A waiver of the Commission's August 3, 2004 "freeze" concerning expansion in service area[2] is requested. The proposal complies with the criteria for a freeze waiver request outlined in the Report and Order in the Third Periodic Review.[3] WJHG-DT will change channel for post-transition operation and will employ an existing antenna.

The map attached as **Figure 4** supplies a comparison of the 36 dBμ digital service contour corresponding to the proposed WJHG-DT facility and the Appendix B parameters. As shown thereon, the amount of contour extension does not exceed five miles at any azimuth.

Absent the waiver, the WJHG-DT non-directional ERP would have to be reduced to 25 kW to avoid a contour extension. At this power level, the resulting DTV service contour would not cover 122,175 persons within an area of 4,791 sq. km that are presently within the WJHG-TV analog Grade B contour. The potential loss area is depicted in **Figure 4A**.

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[2]Public Notice *"Freeze on the Filing of Certain TV and DTV Requests for Allotment or Service Area Changes,"* DA 04-2446, released August 3, 2004.

[3]*Third Periodic Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television,* MB Docket No. 07-91, FCC 07-228, released December 31, 2007.

A detailed interference study per OET Bulletin 69[4] shows that the proposal complies with the 0.5 percent limit of new interference caused to the Appendix B facilities and current post-transition authorizations of pertinent nearby stations. The interference study output report is provided as **Table 1**. Protection requirements towards authorized Class A stations are also satisfied.

The nearest FCC monitoring station is 386 km distant at Powder Springs, GA. This exceeds the threshold minimum distances specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no AM stations within 3.2 kilometers of the site, based on information contained within the Commission's database. The site location is beyond the border areas requiring international coordination.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposal will involve use of an existing transmitting antenna. 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. No tower construction or change in structure height is proposed. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 25 percent antenna relative field in downward elevations (pattern data shows less than 25 percent relative field at angles 20 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 3.4 $\mu W/cm^2$, which is 1.7 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

[4]FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). The implementation of OET-69 for this study followed the guidelines of OET-69 as specified therein. A standard cell size of 2 km was employed. Comparisons of various results of this computer program (run on a Sun Sparc processor) to the Commission's implementation of OET-69 show excellent correlation.

with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines.

Certification

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direction, and that they are true and correct to the best of his knowledge and belief.

Joseph M. Davis, P.E.
June 7, 2008

Chesapeake RF Consultants, LLC
11993 Kahns Road
Manassas, VA 20112
703-650-9600

List of Attachments

Figure 1	Antenna Horizontal Plane Pattern
Figure 2	Antenna Vertical Plane (Elevation) Pattern
Figure 3	Proposed Coverage Contours
Figure 4	Coverage Contour Comparison
Figure 4A	Potential Loss Area Without Waiver
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

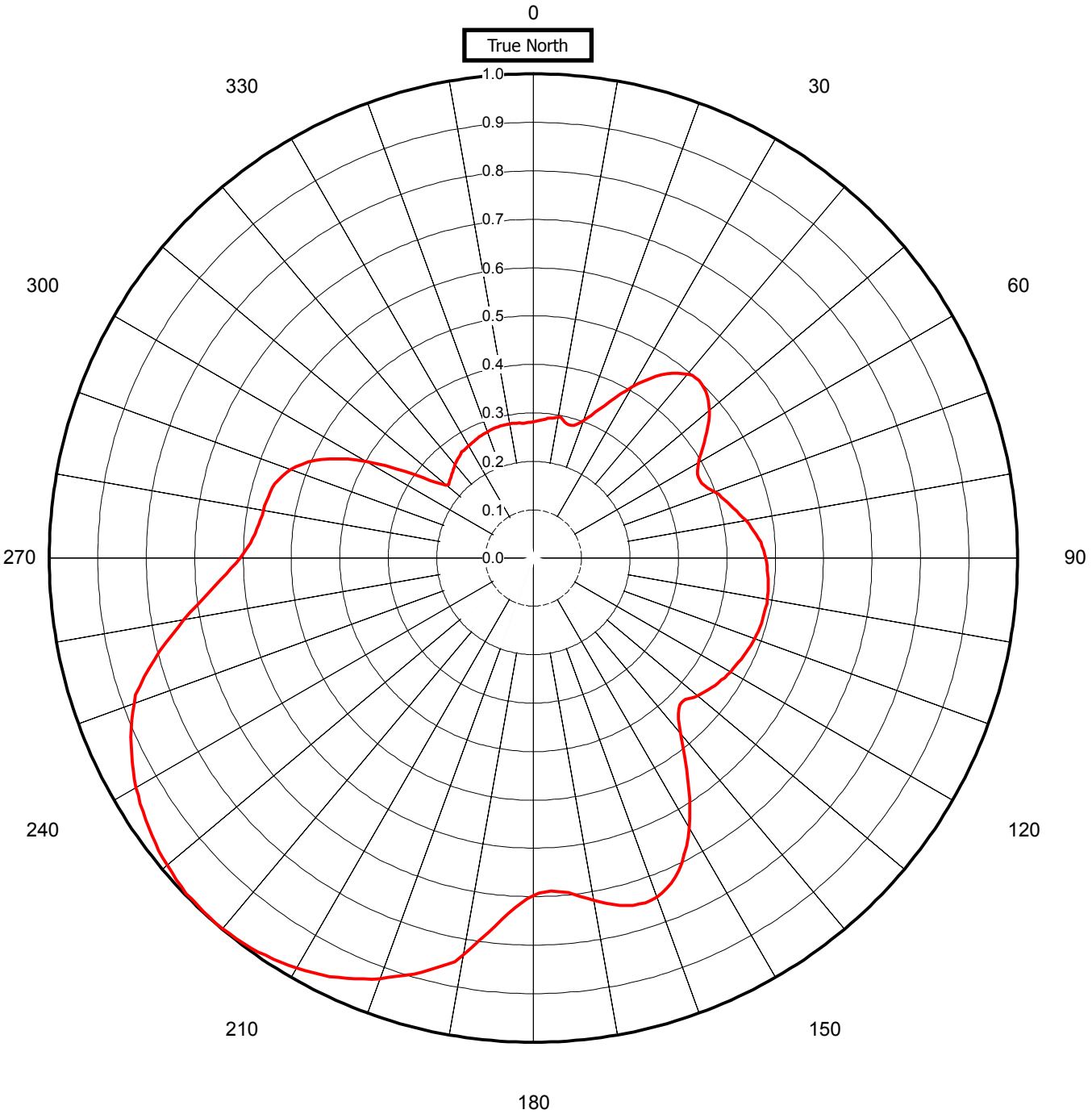
Dielectric

Figure 1
Antenna Horizontal Plane Pattern

Proposal Number	**DCA-9424**	Revision:	**8**
Date	**27-Sep-04**		
Call Letters	**WJHG**	Channel	**7**
Location	**Panama City, FL**		
Customer			
Antenna Type	**THB-C3SP-3H/9H-1**		

AZIMUTH PATTERN

Gain	**2.80**	**(4.47 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**177.00 MHz**		
Drawing #	**THB-C3SP3-1770**		



Proposal Number	**DCA-9424**	Revision:	**8**
Date	**27-Sep-04**		
Call Letters	**WJHG**	Channel	**7**
Location	**Panama City, FL**		
Customer			
Antenna Type	**THB-C3SP-3H/9H-1**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**3.00**	**(4.77 dB)**	
RMS Gain at Horizontal	**3.00**	**(4.77 dB)**	
Calculated / Measured	**Calculated**		

Beam Tilt	**0.50 deg**
Frequency	**177.00 MHz**
Drawing #	**03H030050-90**

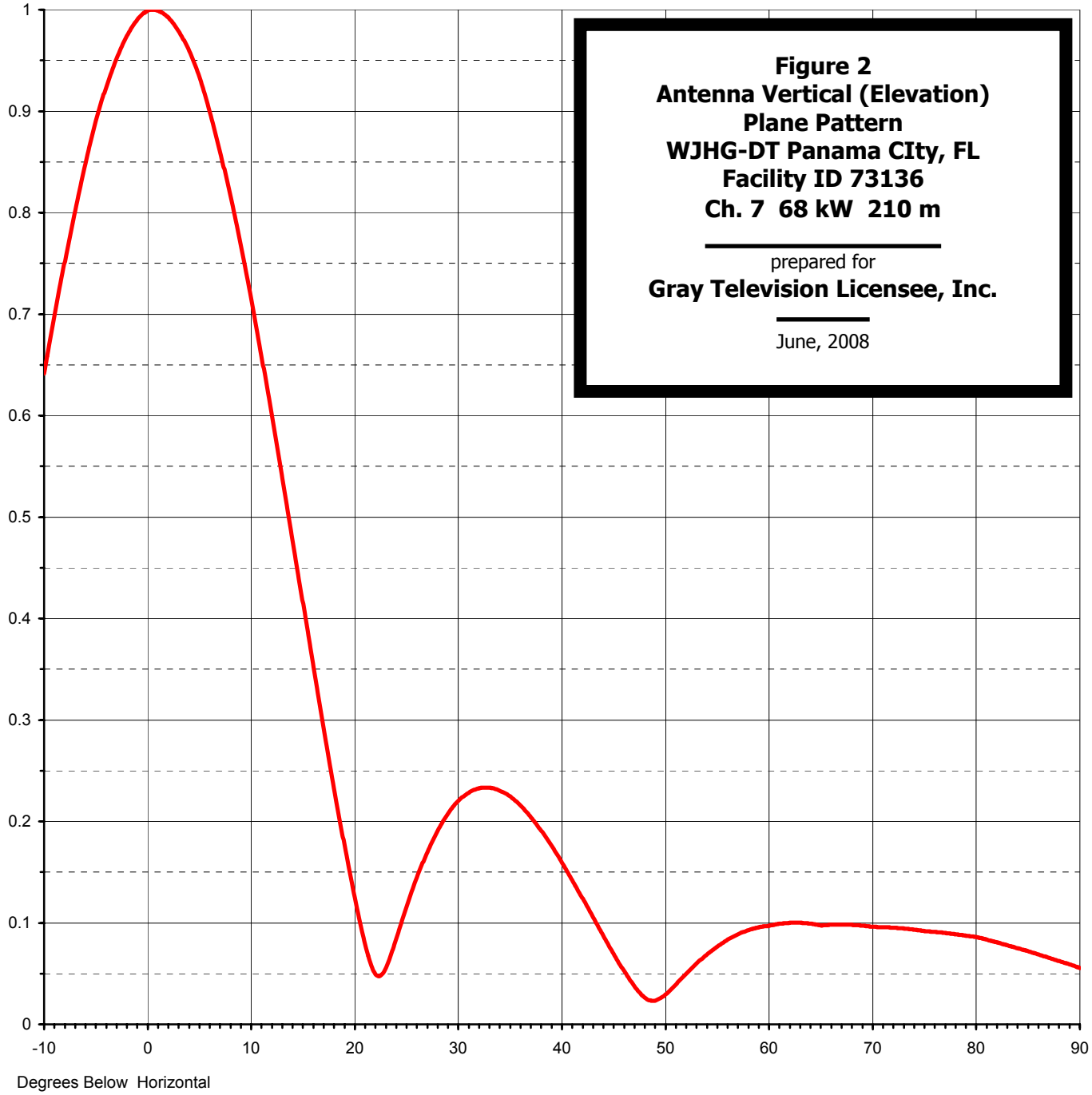
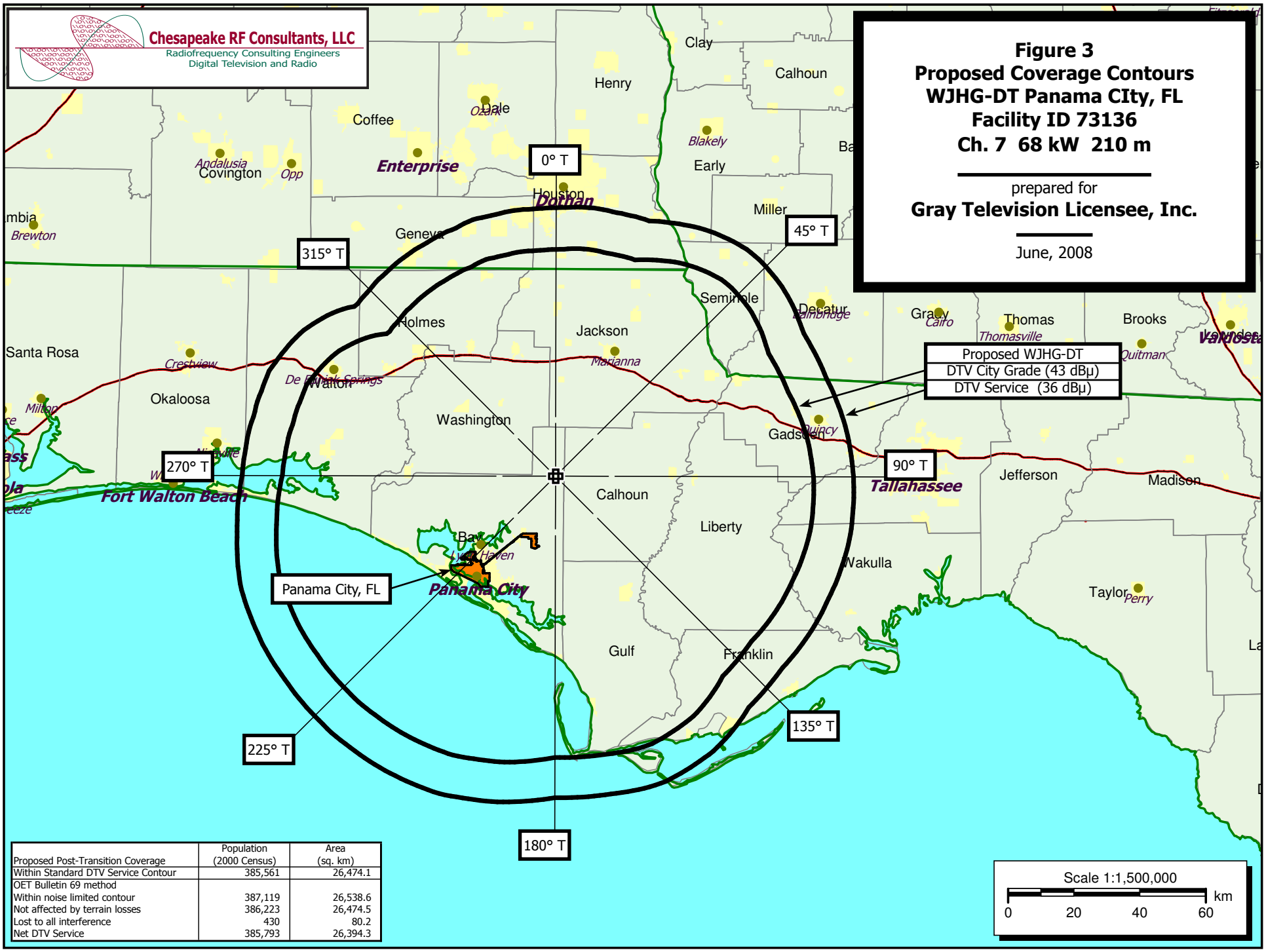


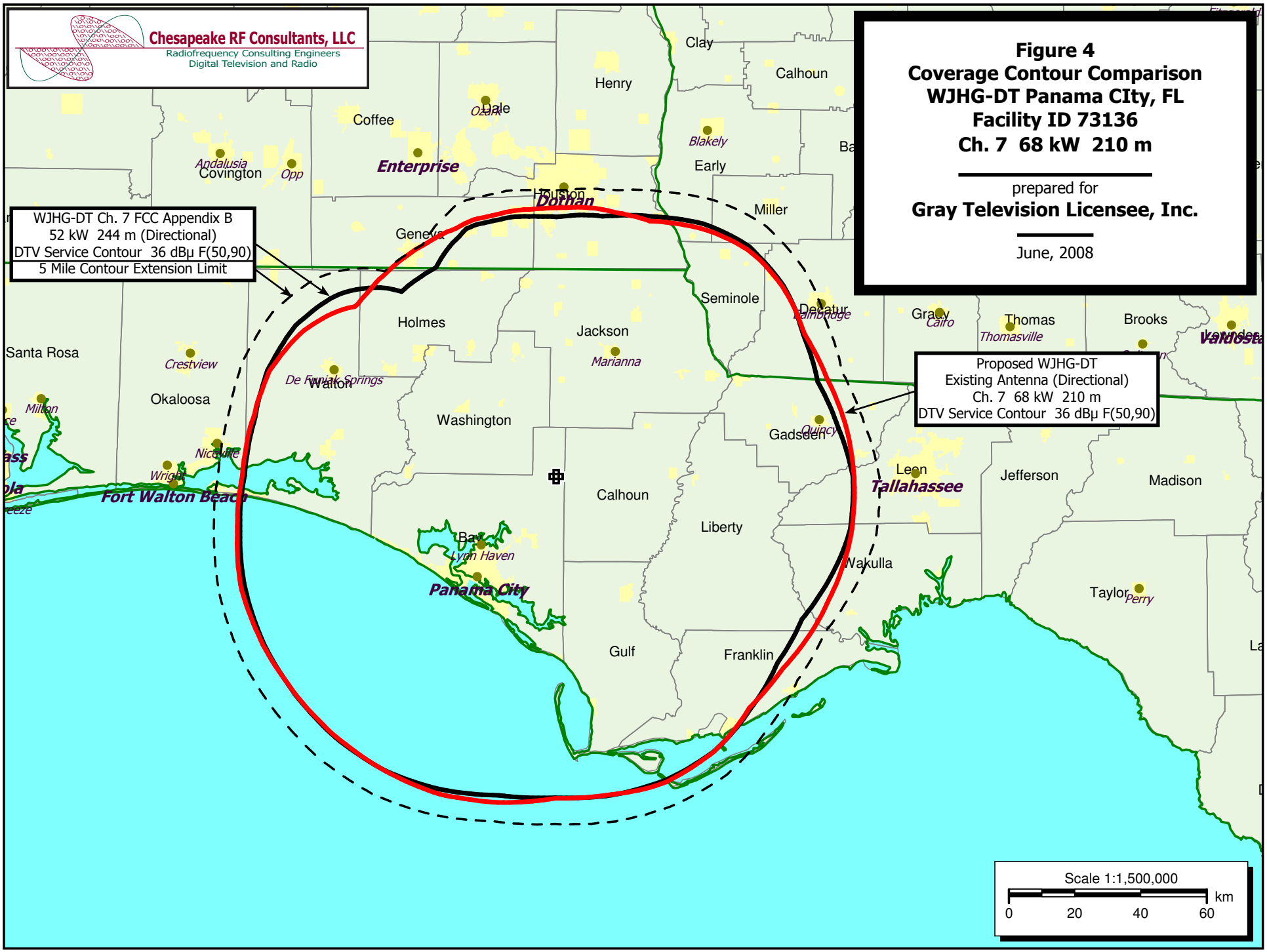
Figure 2
Antenna Vertical (Elevation)
Plane Pattern
WJHG-DT Panama CIty, FL
Facility ID 73136
Ch. 7 68 kW 210 m

prepared for
Gray Television Licensee, Inc.

June, 2008



Proposed Post-Transition Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	385,561	26,474.1
OET Bulletin 69 method		
Within noise limited contour	387,119	26,538.6
Not affected by terrain losses	386,223	26,474.5
Lost to all interference	430	80.2
Net DTV Service	385,793	26,394.3


Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio
Figure 4
Coverage Contour Comparison
WJHG-DT Panama CIty, FL
Facility ID 73136
Ch. 7 68 kW 210 m
prepared for
Gray Television Licensee, Inc.
June, 2008
WJHG-DT Ch. 7 FCC Appendix B
52 kW 244 m (Directional)
DTV Service Contour 36 dBµ F(50,90)
5 Mile Contour Extension Limit
Proposed WJHG-DT
Existing Antenna (Directional)
Ch. 7 68 kW 210 m
DTV Service Contour 36 dBµ F(50,90)
Clay
Calhoun
Henry
Coffee
Dale
Ozark
Blakely
Early
Andalusia
Covington
Opp
Enterprise
Houston
Dothan
Miller
Geneva
Seminole
Decatur
Bainbridge
Gracy
Cairo
Thomas
Thomasville
Brooks
Valdosta
Holmes
Jackson
Marianna
Santa Rosa
Crestview
De Funiak Springs
Walton
Okaloosa
Milton
Washington
Gadsden
Quincy
Leon
Tallahassee
Jefferson
Madison
Nicevile
Wright
Fort Walton Beach
Calhoun
Liberty
Bay
Lynn Haven
Panama City
Wakulla
Taylor
Perry
Gulf
Franklin
Scale 1:1,500,000
km
0
20
40
60

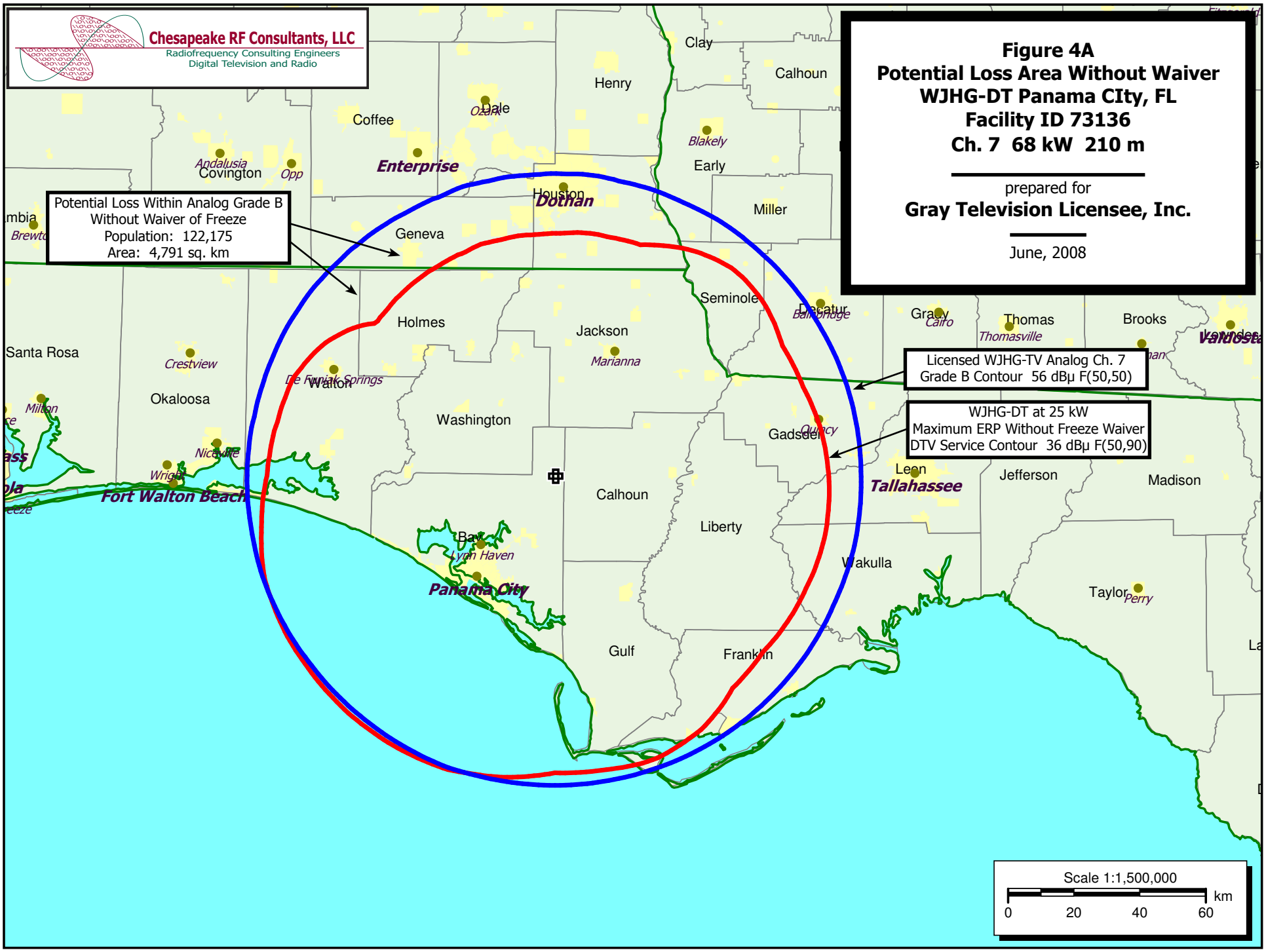

Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio
Figure 4A
Potential Loss Area Without Waiver
WJHG-DT Panama CIty, FL
Facility ID 73136
Ch. 7 68 kW 210 m
prepared for
Gray Television Licensee, Inc.
June, 2008
Potential Loss Within Analog Grade B
Without Waiver of Freeze
Population: 122,175
Area: 4,791 sq. km
Licensed WJHG-TV Analog Ch. 7
Grade B Contour 56 dBµ F(50,50)
WJHG-DT at 25 kW
Maximum ERP Without Freeze Waiver
DTV Service Contour 36 dBµ F(50,90)
Scale 1:1,500,000
km
0
20
40
60
Clay
Calhoun
Henry
Coffee
Dale
Blakely
Early
Miller
Enterprise
Dothan
Andalusia
Covington
Opp
Geneva
Houston
Seminole
Holmes
Jackson
Marianna
Santa Rosa
Crestview
Okaloosa
Walton
Washington
Gadsden
Quincy
Leon
Tallahassee
Jefferson
Madison
Thomas
Thomasville
Brooks
Gracy
Cairo
Fort Walton Beach
Panama City
Lynn Haven
Calhoun
Liberty
Wakulla
Taylor
Perry
Gulf
Franklin

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 1 of 11)

TW Census data selected 2000
Post Transition Data Base Selected /space/software/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-07-2008 Time: 08:16:34

Record Selected for Analysis

WJHG-DT USERRECORD-01 PANAMA CITY FL US
Channel 07 ERP 68. kW HAAT 210. m RCAMSL 00249 m
Latitude 030-25-59 Longitude 0085-24-51
Status APP Zone 3 Border
Dir Antenna Make usr Model WJHG-D7_panel Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	5.369	192.1	81.3
45.0	49.130	196.5	97.8
90.0	15.602	205.0	90.1
135.0	14.233	217.8	90.5
180.0	33.035	223.8	97.4
225.0	67.277	222.9	103.0
270.0	24.972	219.0	94.8
315.0	3.931	203.0	79.8

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 2 of 11)

****
Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
07	WJHG-DT	PANAMA CITY FL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WCIQ	MOUNT CHEAHA AL	341.3	PLN	DTVPLN -DTVP0043
07	WCIQ	MOUNT CHEAHA AL	341.3	CP	BPEDT -20080312ACE
07	WVUA-CA	TUSCALOOSA/NORTHPORT AL	362.3	LIC	BLTTL -19991220ABJ
07	WJCT	JACKSONVILLE FL	369.1	PLN	DTVPLN -DTVP0053
07	WJCT	JACKSONVILLE FL	369.1	CP	BPEDT -20080414AAK
07	WRBD-LP	PENSACOLA FL	176.4	APP	BDISTVA -20060309ADT
07	WFLA-TV	TAMPA FL	420.1	CP	BPCDT -19991026ABJ
07	WFLA-TV	TAMPA FL	420.1	PLN	DTVPLN -DTVP0056
07	WFLA-TV	TAMPA FL	420.1	LIC	BLCDT -19991110AAS
07	WMUM-TV	COCHRAN GA	305.2	CP MOD	BMPEDT -20080124ACU
07	WMUM-TV	COCHRAN GA	305.2	PLN	DTVPLN -DTVP0057
08	WACS-TV	DAWSON GA	186.1	CP MOD	BMPEDT -20080227ABT
08	WACS-TV	DAWSON GA	186.1	PLN	DTVPLN -DTVP0119

%%%%%%%%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	WCIQ	MOUNT CHEAHA AL	DTVPLN -DTVP0043

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WJHG-TV	PANAMA CITY FL	341.3	PLN	DTVPLN -DTVP0055
07	WMUM-TV	COCHRAN GA	263.6	CP MOD	BMPEDT -20080124ACU
07	WMUM-TV	COCHRAN GA	263.6	PLN	DTVPLN -DTVP0057
07	WSPA-TV	SPARTANBURG SC	373.3	PLN	DTVPLN -DTVP0095
07	WSPA-TV	SPARTANBURG SC	373.3	CP	BPCDT -20080410AAX
07	WMAK	KNOXVILLE TN	328.8	LIC	BLCDT -20040810ABE
07	WMAK	KNOXVILLE TN	328.8	PLN	DTVPLN -DTVP0098
08	WGTV	ATHENS GA	158.1	CP	BPEDT -20080317AAR
08	WGTV	ATHENS GA	158.1	PLN	DTVPLN -DTVP0118
08	WACS-TV	DAWSON GA	208.3	CP MOD	BMPEDT -20080227ABT
08	WACS-TV	DAWSON GA	208.3	PLN	DTVPLN -DTVP0119
07	WJHG-DT	PANAMA CITY FL	341.3	APP	USERRECORD-01

Total scenarios = 16

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 7A AL MOUNT CHEAHA DTVPLN DTVP0043 PLN
HAAT 610.0 m, ATV ERP 24.1 kW
POPULATION AREA (sq km)

```
   within Noise Limited Contour     2579282      45256.5
   not affected by terrain losses   2456428      43350.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      101850        878.3
   lost to ATV IX only               101850        878.3
   lost to all IX                    101850        878.3

 Potential Interfering Stations Included in above Scenario     1

 7A GA COCHRAN              BMPEDT    20080124ACU  CP
 7A SC SPARTANBURG          DTVPLN    DTVP0095     PLN
 7A TN KNOXVILLE            BLCDT     20040810ABE  LIC
 8A GA ATHENS               BPEDT     20080317AAR  CP
 7A FL PANAMA CITY          DTVPLN    DTVP0055     PLN

After Analysis

Results for:  7A AL MOUNT CHEAHA         DTVPLN    DTVP0043     PLN
   HAAT  610.0 m, ATV ERP   24.1 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     2579282      45256.5
   not affected by terrain losses   2456428      43350.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      101850        878.3
   lost to ATV IX only               101850        878.3
   lost to all IX                    101850        878.3

 Potential Interfering Stations Included in above Scenario     1

 7A GA COCHRAN              BMPEDT    20080124ACU  CP
 7A SC SPARTANBURG          DTVPLN    DTVP0095     PLN
 7A TN KNOXVILLE            BLCDT     20040810ABE  LIC
 8A GA ATHENS               BPEDT     20080317AAR  CP
 7A FL PANAMA CITY          USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

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     Analysis of Interference to Affected Station   2


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   07      WCIQ       MOUNT CHEAHA AL          BPEDT     -20080312ACE

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   WJHG-TV  PANAMA CITY FL            341.2  PLN    DTVPLN    -DTVP0055
 07   WMUM-TV  COCHRAN GA                263.5  CP MOD BMPEDT    -20080124ACU
 07   WMUM-TV  COCHRAN GA                263.5  PLN    DTVPLN    -DTVP0057
 07   WSPA-TV  SPARTANBURG SC            373.3  PLN    DTVPLN    -DTVP0095
 07   WSPA-TV  SPARTANBURG SC            373.3  CP     BPCDT     -20080410AAX
 07   WMAK     KNOXVILLE TN              328.8  LIC    BLCDT     -20040810ABE
 07   WMAK     KNOXVILLE TN              328.8  PLN    DTVPLN    -DTVP0098
 08   WGTV     ATHENS GA                 158.1  CP     BPEDT     -20080317AAR
 08   WGTV     ATHENS GA                 158.1  PLN    DTVPLN    -DTVP0118
 08   WACS-TV  DAWSON GA                 208.2  CP MOD BMPEDT    -20080227ABT
```



```
 08   WACS-TV  DAWSON GA                 208.2  PLN    DTVPLN    -DTVP0119
 07   WJHG-DT  PANAMA CITY FL            341.3  APP    USERRECORD-01

 Total scenarios =   16


Result key:       17
Scenario        1  Affected station        2
Before Analysis

Results for:  7A AL MOUNT CHEAHA         BPEDT     20080312ACE  CP
   HAAT  576.0 m, ATV ERP   24.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     2495185      44328.5
   not affected by terrain losses   2349861      42370.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       80873        793.7
   lost to ATV IX only                80873        793.7
   lost to all IX                     80873        793.7

 Potential Interfering Stations Included in above Scenario     1

 7A GA COCHRAN              BMPEDT    20080124ACU  CP
 7A SC SPARTANBURG          DTVPLN    DTVP0095     PLN
 7A TN KNOXVILLE            BLCDT     20040810ABE  LIC
 8A GA ATHENS               BPEDT     20080317AAR  CP
 7A FL PANAMA CITY          DTVPLN    DTVP0055     PLN

After Analysis

Results for:  7A AL MOUNT CHEAHA         BPEDT     20080312ACE  CP
   HAAT  576.0 m, ATV ERP   24.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     2495185      44328.5
   not affected by terrain losses   2349861      42370.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       80873        793.7
   lost to ATV IX only                80873        793.7
   lost to all IX                     80873        793.7

 Potential Interfering Stations Included in above Scenario     1

 7A GA COCHRAN              BMPEDT    20080124ACU  CP
 7A SC SPARTANBURG          DTVPLN    DTVP0095     PLN
 7A TN KNOXVILLE            BLCDT     20040810ABE  LIC
 8A GA ATHENS               BPEDT     20080317AAR  CP
 7A FL PANAMA CITY          USERRECORD01           APP

Percent new IX =    0.0000%

Worst case new IX    0.0000% Scenario      1

########################################################################


     Analysis of Interference to Affected Station   3


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   07      WVUA-CA    TUSCALOOSA/NORTHPORT AL   BLTTL     -19991220ABJ
```

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 5 of 11)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	162.5	LIC	BLET	-405
07	WCIQ	MOUNT CHEAHA AL	162.5	PLN	DTVPLN	-DTVP0043
07	WCIQ	MOUNT CHEAHA AL	162.5	CP	BPEDT	-20080312ACE
07	WJHG-TV	PANAMA CITY FL	362.2	LIC	BLCT	-1360
07	WJHG-TV	PANAMA CITY FL	362.2	PLN	DTVPLN	-DTVP0055
07	WLBT	JACKSON MS	288.1	CP	BPCDT	-20080516ABY
07	WLBT	JACKSON MS	288.1	PLN	DTVPLN	-DTVP0075
07	WDAM-TV	LAUREL MS	252.2	LIC	BLCT	-2375
07	WBBJ-TV	JACKSON TN	295.8	LIC	BMLCT	-20030627AAG
08	WAKA	SELMA AL	131.7	LIC	BMLCT	-20020312AAC
07	WJHG-DT	PANAMA CITY FL	362.3	APP	USERRECORD	-01

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WJCT	JACKSONVILLE FL	DTVPLN	-DTVP0053

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJHG-TV	PANAMA CITY FL	369.1	PLN	DTVPLN	-DTVP0055
07	WFLA-TV	TAMPA FL	279.3	CP	BPCDT	-19991026ABJ
07	WFLA-TV	TAMPA FL	279.3	PLN	DTVPLN	-DTVP0056
07	WFLA-TV	TAMPA FL	279.3	LIC	BLCDT	-19991110AAS
07	WMUM-TV	COCHRAN GA	291.1	CP MOD	BMPEDT	-20080124ACU
07	WMUM-TV	COCHRAN GA	291.1	PLN	DTVPLN	-DTVP0057
07	WITV	CHARLESTON SC	343.1	CP	BPEDT	-20080312ACL
07	WITV	CHARLESTON SC	343.1	PLN	DTVPLN	-DTVP0094
08	WXGA-TV	WAYCROSS GA	141.8	PLN	DTVPLN	-DTVP0120
08	WXGA-TV	WAYCROSS GA	141.8	CP	BPEDT	-20080317AAS
07	WJHG-DT	PANAMA CITY FL	369.1	APP	USERRECORD	-01

Proposal causes no interference

##########

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WJCT	JACKSONVILLE FL	BPEDT	-20080414AAK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJHG-TV	PANAMA CITY FL	369.1	PLN	DTVPLN	-DTVP0055
07	WFLA-TV	TAMPA FL	279.3	CP	BPCDT	-19991026ABJ
07	WFLA-TV	TAMPA FL	279.3	PLN	DTVPLN	-DTVP0056
07	WFLA-TV	TAMPA FL	279.3	LIC	BLCDT	-19991110AAS
07	WMUM-TV	COCHRAN GA	291.1	CP MOD	BMPEDT	-20080124ACU
07	WMUM-TV	COCHRAN GA	291.1	PLN	DTVPLN	-DTVP0057
07	WITV	CHARLESTON SC	343.1	CP	BPEDT	-20080312ACL
07	WITV	CHARLESTON SC	343.1	PLN	DTVPLN	-DTVP0094
08	WXGA-TV	WAYCROSS GA	141.8	PLN	DTVPLN	-DTVP0120
08	WXGA-TV	WAYCROSS GA	141.8	CP	BPEDT	-20080317AAS
07	WJHG-DT	PANAMA CITY FL	369.1	APP	USERRECORD	-01

Proposal causes no interference

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Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 6 of 11)

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WRBD-LP	PENSACOLA FL	BDISTVA	-20060309ADT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	361.2	LIC	BLET	-405
07	WCIQ	MOUNT CHEAHA AL	361.2	PLN	DTVPLN	-DTVP0043
07	WCIQ	MOUNT CHEAHA AL	361.2	CP	BPEDT	-20080312ACE
07	WJHG-TV	PANAMA CITY FL	176.4	LIC	BLCT	-1360
07	WJHG-TV	PANAMA CITY FL	176.4	PLN	DTVPLN	-DTVP0055
07	WLBT	JACKSON MS	354.2	CP	BPCDT	-20080516ABY
07	WLBT	JACKSON MS	354.2	PLN	DTVPLN	-DTVP0075
07	WDAM-TV	LAUREL MS	221.9	LIC	BLCT	-2375
07	WKFK-LP	PASCAGOULA MS	139.9	LIC	BLTVL	-20070201AHK
08	WRBD-LP	PENSACOLA FL	3.5	LIC	BLTVL	-19961016JF
07	WJHG-DT	PANAMA CITY FL	176.4	APP	USERRECORD	-01

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WFLA-TV	TAMPA FL	BPCDT	-19991026ABJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJCT	JACKSONVILLE FL	279.3	PLN	DTVPLN	-DTVP0053
07	WJCT	JACKSONVILLE FL	279.3	CP	BPEDT	-20080414AAK
07	WSVN	MIAMI FL	291.4	PLN	DTVPLN	-DTVP0054
07	WSVN	MIAMI FL	291.4	CP	BPCDT	-20080310ACI
07	WJHG-TV	PANAMA CITY FL	420.2	PLN	DTVPLN	-DTVP0055
07	WJHG-DT	PANAMA CITY FL	420.1	APP	USERRECORD	-01

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WFLA-TV	TAMPA FL	DTVPLN	-DTVP0056

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 7 of 11)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJCT	JACKSONVILLE FL	279.3	PLN	DTVPLN	-DTVP0053
07	WJCT	JACKSONVILLE FL	279.3	CP	BPEDT	-20080414AAK
07	WSVN	MIAMI FL	291.4	PLN	DTVPLN	-DTVP0054
07	WSVN	MIAMI FL	291.4	CP	BPCDT	-20080310ACI
07	WJHG-TV	PANAMA CITY FL	420.2	PLN	DTVPLN	-DTVP0055
07	WJHG-DT	PANAMA CITY FL	420.1	APP	USERRECORD	-01

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WFLA-TV	TAMPA FL	BLCDT	-19991110AAS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WJCT	JACKSONVILLE FL	279.3	PLN	DTVPLN	-DTVP0053
07	WJCT	JACKSONVILLE FL	279.3	CP	BPEDT	-20080414AAK
07	WSVN	MIAMI FL	291.4	PLN	DTVPLN	-DTVP0054
07	WSVN	MIAMI FL	291.4	CP	BPCDT	-20080310ACI
07	WJHG-TV	PANAMA CITY FL	420.2	PLN	DTVPLN	-DTVP0055
07	WJHG-DT	PANAMA CITY FL	420.1	APP	USERRECORD	-01

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WMUM-TV	COCHRAN GA	BMPEDT	-20080124ACU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	263.6	PLN	DTVPLN	-DTVP0043
07	WCIQ	MOUNT CHEAHA AL	263.5	CP	BPEDT	-20080312ACE
07	WJCT	JACKSONVILLE FL	291.1	PLN	DTVPLN	-DTVP0053
07	WJCT	JACKSONVILLE FL	291.1	CP	BPEDT	-20080414AAK
07	WJHG-TV	PANAMA CITY FL	305.2	PLN	DTVPLN	-DTVP0055
07	WITV	CHARLESTON SC	336.4	CP	BPEDT	-20080312ACL
07	WITV	CHARLESTON SC	336.4	PLN	DTVPLN	-DTVP0094
07	WSPA-TV	SPARTANBURG SC	313.1	PLN	DTVPLN	-DTVP0095
07	WSPA-TV	SPARTANBURG SC	313.1	CP	BPCDT	-20080410AAX
07	WMAK	KNOXVILLE TN	398.4	LIC	BLCDT	-20040810ABE
07	WMAK	KNOXVILLE TN	398.4	PLN	DTVPLN	-DTVP0098
08	WGTV	ATHENS GA	170.0	CP	BPEDT	-20080317AAR
08	WGTV	ATHENS GA	170.0	PLN	DTVPLN	-DTVP0118
08	WACS-TV	DAWSON GA	135.8	CP MOD	BMPEDT	-20080227ABT
08	WACS-TV	DAWSON GA	135.8	PLN	DTVPLN	-DTVP0119
08	WXGA-TV	WAYCROSS GA	152.9	PLN	DTVPLN	-DTVP0120

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 8 of 11)

08	WXGA-TV	WAYCROSS GA	152.9	CP	BPEDT	-20080317AAS
07	WJHG-DT	PANAMA CITY FL	305.2	APP	USERRECORD	-01

Total scenarios = 32

Result key: 59
Scenario 27 Affected station 10
Before Analysis

Results for: 7A GA COCHRAN BMPEDT 20080124ACU CP
HAAT 332.0 m, ATV ERP 31.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	801446	33787.4
not affected by terrain losses	798360	33376.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15623	760.9
lost to ATV IX only	15623	760.9
lost to all IX	15623	760.9

Potential Interfering Stations Included in above Scenario 27

7A AL MOUNT CHEAHA	BPEDT	20080312ACE	CP
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A SC CHARLESTON	BPEDT	20080312ACL	CP
7A SC SPARTANBURG	BPCDT	20080410AAX	CP
8A GA DAWSON	BMPEDT	20080227ABT	CP
7A FL PANAMA CITY	DTVPLN	DTVP0055	PLN

After Analysis

Results for: 7A GA COCHRAN BMPEDT 20080124ACU CP
HAAT 332.0 m, ATV ERP 31.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	801446	33787.4
not affected by terrain losses	798360	33376.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15823	833.3
lost to ATV IX only	15823	833.3
lost to all IX	15823	833.3

Potential Interfering Stations Included in above Scenario 27

7A AL MOUNT CHEAHA	BPEDT	20080312ACE	CP
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A SC CHARLESTON	BPEDT	20080312ACL	CP
7A SC SPARTANBURG	BPCDT	20080410AAX	CP
8A GA DAWSON	BMPEDT	20080227ABT	CP
7A FL PANAMA CITY	USERRECORD01		APP

Percent new IX = 0.0256%

Worst case new IX 0.0256% Scenario 27

##########

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WMUM-TV	COCHRAN GA	DTVPLN	-DTVP0057

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 9 of 11)

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	263.6	PLN	DTVPLN	-DTVP0043
07	WCIQ	MOUNT CHEAHA AL	263.5	CP	BPEDT	-20080312ACE
07	WJCT	JACKSONVILLE FL	291.1	PLN	DTVPLN	-DTVP0053
07	WJCT	JACKSONVILLE FL	291.1	CP	BPEDT	-20080414AAK
07	WJHG-TV	PANAMA CITY FL	305.2	PLN	DTVPLN	-DTVP0055
07	WITV	CHARLESTON SC	336.4	CP	BPEDT	-20080312ACL
07	WITV	CHARLESTON SC	336.4	PLN	DTVPLN	-DTVP0094
07	WSPA-TV	SPARTANBURG SC	313.1	PLN	DTVPLN	-DTVP0095
07	WSPA-TV	SPARTANBURG SC	313.1	CP	BPCDT	-20080410AAX
07	WMAK	KNOXVILLE TN	398.4	LIC	BLCDT	-20040810ABE
07	WMAK	KNOXVILLE TN	398.4	PLN	DTVPLN	-DTVP0098
08	WGTV	ATHENS GA	170.0	CP	BPEDT	-20080317AAR
08	WGTV	ATHENS GA	170.0	PLN	DTVPLN	-DTVP0118
08	WACS-TV	DAWSON GA	135.8	CP MOD	BMPEDT	-20080227ABT
08	WACS-TV	DAWSON GA	135.8	PLN	DTVPLN	-DTVP0119
08	WXGA-TV	WAYCROSS GA	152.9	PLN	DTVPLN	-DTVP0120
08	WXGA-TV	WAYCROSS GA	152.9	CP	BPEDT	-20080317AAS
07	WJHG-DT	PANAMA CITY FL	305.2	APP	USERRECORD-01	

Total scenarios = 32

Result key: 91
Scenario 27 Affected station 11
Before Analysis

Results for: 7A GA COCHRAN DTVPLN DTVP0057 PLN
HAAT 369.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	802101	33928.1
not affected by terrain losses	798862	33505.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	14761	676.3
lost to ATV IX only	14761	676.3
lost to all IX	14761	676.3

Potential Interfering Stations Included in above Scenario 27

7A AL MOUNT CHEAHA	BPEDT	20080312ACE	CP
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A SC CHARLESTON	BPEDT	20080312ACL	CP
7A SC SPARTANBURG	BPCDT	20080410AAX	CP
8A GA DAWSON	BMPEDT	20080227ABT	CP
7A FL PANAMA CITY	DTVPLN	DTVP0055	PLN

After Analysis

Results for: 7A GA COCHRAN DTVPLN DTVP0057 PLN
HAAT 369.0 m, ATV ERP 22.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	802101	33928.1
not affected by terrain losses	798862	33505.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	15048	776.9
lost to ATV IX only	15048	776.9
lost to all IX	15048	776.9

Potential Interfering Stations Included in above Scenario 27

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 10 of 11)

7A AL MOUNT CHEAHA	BPEDT	20080312ACE	CP
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A SC CHARLESTON	BPEDT	20080312ACL	CP
7A SC SPARTANBURG	BPCDT	20080410AAX	CP
8A GA DAWSON	BMPEDT	20080227ABT	CP
7A FL PANAMA CITY	USERRECORD01		APP

Percent new IX = 0.0366%

Worst case new IX 0.0366% Scenario 27

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WACS-TV	DAWSON GA	BMPEDT	-20080227ABT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	208.3	PLN	DTVPLN	-DTVP0043
07	WCIQ	MOUNT CHEAHA AL	208.2	CP	BPEDT	-20080312ACE
07	WJHG-TV	PANAMA CITY FL	186.1	PLN	DTVPLN	-DTVP0055
07	WMUM-TV	COCHRAN GA	135.8	CP MOD	BMPEDT	-20080124ACU
07	WMUM-TV	COCHRAN GA	135.8	PLN	DTVPLN	-DTVP0057
08	WGTV	ATHENS GA	211.1	CP	BPEDT	-20080317AAR
08	WGTV	ATHENS GA	211.1	PLN	DTVPLN	-DTVP0118
08	WXGA-TV	WAYCROSS GA	203.8	PLN	DTVPLN	-DTVP0120
08	WXGA-TV	WAYCROSS GA	203.8	CP	BPEDT	-20080317AAS
08	WOLO-TV	COLUMBIA SC	428.2	LIC	BLCDT	-20021106AAU
08	WOLO-TV	COLUMBIA SC	428.2	PLN	DTVPLN	-DTVP0160
09	WPGX	PANAMA CITY FL	195.1	LIC	BLCDT	-20060622AAR
09	WPGX	PANAMA CITY FL	195.1	PLN	DTVPLN	-DTVP0189
09	WTVM	COLUMBUS GA	47.9	PLN	DTVPLN	-DTVP0190
09	WTVM	COLUMBUS GA	47.9	CP	BPCDT	-20080505ABO
07	WJHG-DT	PANAMA CITY FL	186.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WACS-TV	DAWSON GA	DTVPLN	-DTVP0119

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	208.3	PLN	DTVPLN	-DTVP0043
07	WCIQ	MOUNT CHEAHA AL	208.2	CP	BPEDT	-20080312ACE
07	WJHG-TV	PANAMA CITY FL	186.1	PLN	DTVPLN	-DTVP0055
07	WMUM-TV	COCHRAN GA	135.8	CP MOD	BMPEDT	-20080124ACU
07	WMUM-TV	COCHRAN GA	135.8	PLN	DTVPLN	-DTVP0057
08	WGTV	ATHENS GA	211.1	CP	BPEDT	-20080317AAR
08	WGTV	ATHENS GA	211.1	PLN	DTVPLN	-DTVP0118

Table 1 WJHG-DT OET Bulletin 69 Interference Study
(worst-case scenarios shown page 11 of 11)

```
 08   WXGA-TV  WAYCROSS GA               203.8  PLN    DTVPLN    -DTVP0120
 08   WXGA-TV  WAYCROSS GA               203.8  CP     BPEDT     -20080317AAS
 08   WOLO-TV  COLUMBIA SC               428.2  LIC    BLCDT     -20021106AAU
 08   WOLO-TV  COLUMBIA SC               428.2  PLN    DTVPLN    -DTVP0160
 09   WPGX     PANAMA CITY FL            195.1  LIC    BLCDT     -20060622AAR
 09   WPGX     PANAMA CITY FL            195.1  PLN    DTVPLN    -DTVP0189
 09   WTVM     COLUMBUS GA                47.9  PLN    DTVPLN    -DTVP0190
 09   WTVM     COLUMBUS GA                47.9  CP     BPCDT     -20080505ABO
 07   WJHG-DT  PANAMA CITY FL            186.1  APP    USERRECORD-01
 Proposal causes no interference

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     Analysis of Interference to Affected Station  14


Analysis of current record
Channel     Call          City/State        Application Ref. No.
   07      WJHG-DT    PANAMA CITY FL           USERRECORD-01

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 07   WCIQ     MOUNT CHEAHA AL           341.3  PLN    DTVPLN    -DTVP0043
 07   WCIQ     MOUNT CHEAHA AL           341.3  CP     BPEDT     -20080312ACE
 07   WJCT     JACKSONVILLE FL           369.1  PLN    DTVPLN    -DTVP0053
 07   WJCT     JACKSONVILLE FL           369.1  CP     BPEDT     -20080414AAK
 07   WFLA-TV  TAMPA FL                  420.1  CP     BPCDT     -19991026ABJ
 07   WFLA-TV  TAMPA FL                  420.1  PLN    DTVPLN    -DTVP0056
 07   WFLA-TV  TAMPA FL                  420.1  LIC    BLCDT     -19991110AAS
 07   WMUM-TV  COCHRAN GA                305.2  CP MOD BMPEDT    -20080124ACU
 07   WMUM-TV  COCHRAN GA                305.2  PLN    DTVPLN    -DTVP0057
 08   WACS-TV  DAWSON GA                 186.1  CP MOD BMPEDT    -20080227ABT
 08   WACS-TV  DAWSON GA                 186.1  PLN    DTVPLN    -DTVP0119

 Total scenarios =   8

Result key:       98
Scenario        2  Affected station       14
Before Analysis

Results for:  7A FL PANAMA CITY          USERRECORD01          APP
   HAAT  210.0 m, ATV ERP   68.0 kW
                              POPULATION   AREA (sq km)
   within Noise Limited Contour      387119      26538.6
   not affected by terrain losses    386223      26474.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV         430         80.2
   lost to ATV IX only                  430         80.2
   lost to all IX                       430         80.2

 Potential Interfering Stations Included in above Scenario     2

 7A AL MOUNT CHEAHA         DTVPLN    DTVP0043     PLN
 7A FL JACKSONVILLE         DTVPLN    DTVP0053     PLN
 7A GA COCHRAN              DTVPLN    DTVP0057     PLN

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
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SECTION III-D - DTV Engineering

Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.

Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.

Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by 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. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.

1.	The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:		
	(a)	It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	(●) Yes ( ) No
	(b)	It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	( ) Yes ( ) No
	(c)	It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	( ) Yes ( ) No
	(d)	It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by 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. § 73.622(i) ("new DTV Table Appendix B").	( ) Yes (●) No ( ) N/A
	(e)	It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	(●) Yes ( ) No ( ) N/A
2.	The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must **submit the Exhibit** called for in Item 13.		(●) Yes ( ) No
3.	Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.		(●) Yes ( ) No
4.	The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.		(●) Yes ( ) No
5.	The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.		(●) Yes ( ) No

SECTION III-D - DTV Engineering

TECHNICAL SPECIFICATIONS
Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1.	Channel Number: DTV 7 Analog TV, if any 7	
2.	Zone: ( ) I ( ) II (●) III	
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 30 Minutes 25 Seconds 59 (●) North ( ) South Longitude: Degrees 85 Minutes 24 Seconds 51 (●) West ( ) East	
4.	Antenna Structure Registration Number: 1029017 ☐ Not Applicable ☐ Notification filed with FAA	
5.	Antenna Location Site Elevation Above Mean Sea Level:	42.3 meters
6.	Overall Tower Height Above Ground Level:	270.3 meters
7.	Height of Radiation Center Above Ground Level:	206.4 meters
8.	Height of Radiation Center Above Average Terrain :	209.7 meters

9. Maximum Effective Radiated Power (average power): 68 kW

10. Antenna Specifications:

a. Manufacturer DIE Model THB-C3SP-3H/9H-1-B

b. Electrical Beam Tilt:
0.5 degrees ☐ Not Applicable

c. Mechanical Beam Tilt:
degrees toward azimuth
degrees True ☑ Not Applicable
Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). [Exhibit 42]

d. Polorization:
◉ Horizontal ○ Circular ○ Elliptical

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)

[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.]
[Relative Field Values]

10e. Directional Antenna Relative Field Values

[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]

e. Directional Antenna Relative Field Values:

Rotation (Degrees): ☑ No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.281	10	0.295	20	0.302	30	0.408	40	0.496	50	0.475
60	0.395	70	0.398	80	0.445	90	0.479	100	0.491	110	0.486
120	0.47	130	0.442	140	0.473	150	0.643	160	0.745	170	0.717
180	0.697	190	0.831	200	0.924	210	0.978	220	0.999	230	0.988
240	0.947	250	0.878	260	0.732	270	0.606	280	0.567	290	0.534
300	0.399	310	0.235	320	0.251	330	0.268	340	0.277	350	0.281
Additional Azimuths		43	0.501	163	0.748	221	1	311	0.232		

Relative Field Polar Plot

If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. **Exhibit required.** [Exhibit 43]

11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616? ◉ Yes ○ No [Exhibit 44]

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **Certification Checklist** item 3 is answered "No.") [Exhibit 45]

13. **Environmental Protection Act. Submit in an Exhibit** the following: [Exhibit 46]

If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.

PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name JOSEPH M. DAVIS, P.E.	Relationship to Applicant (e.g., Consulting Engineer) CONSULTING ENGINEER	
Signature	Date 6/7/2008	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC 11993 KAHNS ROAD		
City MANASSAS	State or Country (if foreign address) VA	Zip Code 20112 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Any specified rotation has already been applied to the plotted pattern.
Field strength values shown on a rotated pattern may differ from the listed values because intermediate azimuths are interpolated between entered azimuths.