

## **ENGINEERING EXHIBIT**

### **Application for Digital Television Station Construction Permit**

prepared for

**Gray Television Licensee, LLC**  
WJHG-TV Panama City, FL  
Facility ID 73136  
Ch. 7 67 kW 262 m

*Gray Television Licensee, LLC* (“Gray”) is the licensee of television station WJHG-TV, pre-transition digital Channel 8 and analog Channel 7, Panama City, FL. A Construction Permit (“CP”, BMPCDT-20080611ABD) authorizes WJHG-TV to operate post-transition as digital on Channel 7 at 49 kW effective radiated power (“ERP”) at an antenna height above average terrain (“HAAT”) of 262 meters. A license application is pending (BLCDT-20090810ACO) to cover construction of the WJHG-TV digital Channel 7 facility. *Gray* herein seeks a new CP to increase the ERP to 67 kW while maintaining the authorized antenna location and height.

The transmitting antenna (GE model TY-70-H) is located on an antenna supporting structure having FCC Antenna Structure Registration 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 1** which depicts the standard predicted coverage contours. This map includes the location of Panama City, WJHG-TV’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 dB $\mu$  contour.

The proposed WJHG-TV facility’s predicted service population provides a 177 percent match of the MB Docket 87-268 Seventh Report and Order Appendix B facility, as detailed in the following table.

**Digital Television Population Summary**

Population Summary (2000 Census) OET Bulletin 69 method	Appendix B	Proposed
Within Noise Limited Contour	375,293	666,057
Not affected by terrain losses	374,076	662,626
Lost to all interference	1,424	3,009
Net DTV Service	<b>372,652</b>	<b>659,617</b>
Match of Appendix B	---	<b>177.01%</b>

A detailed interference study per OET Bulletin 69<sup>1</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby digital television and Class A television 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.

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<sup>1</sup>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.

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 an assumed 30 percent antenna relative field in downward elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $3.1 \mu\text{W}/\text{cm}^2$ , which is 1.5 percent of the general population/uncontrolled maximum permitted exposure limit. This is below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, 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.  
September 20, 2010

### **Chesapeake RF Consultants, LLC**

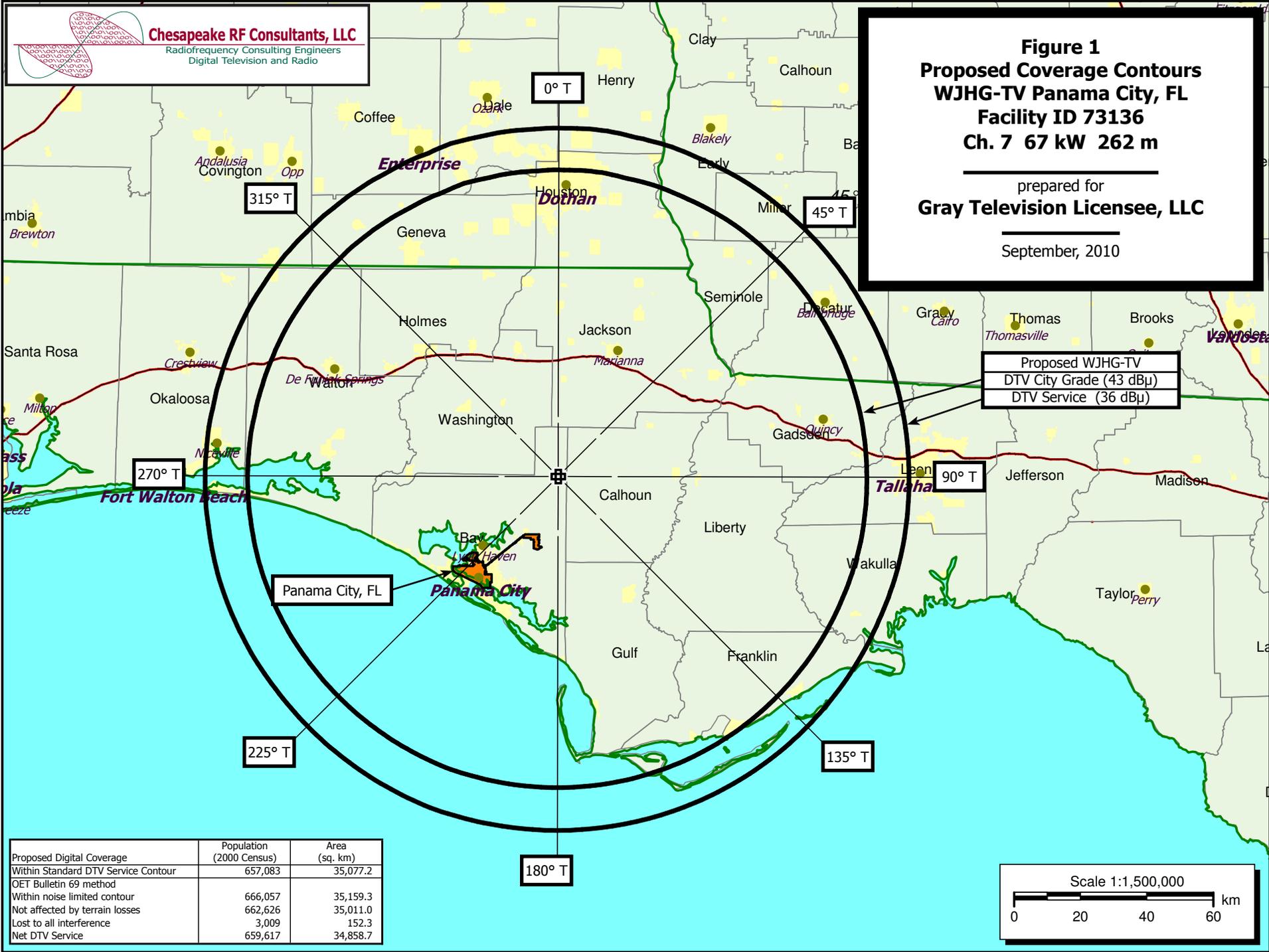
PO Box 1088  
Yorktown, VA 23692  
703-650-9600

#### List of Attachments

Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 301	Saved Version of Engineering Sections from FCC Form at Time of Upload

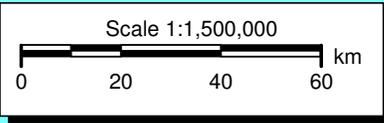
*This material was entered September 20, 2010 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's account number and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.*

**Figure 1**  
**Proposed Coverage Contours**  
**WJHG-TV Panama City, FL**  
**Facility ID 73136**  
**Ch. 7 67 kW 262 m**  
 prepared for  
**Gray Television Licensee, LLC**  
 September, 2010



Proposed WJHG-TV  
 DTV City Grade (43 dBμ)  
 DTV Service (36 dBμ)

Proposed Digital Coverage	Population (2000 Census)	Area (sq. km)
Within Standard DTV Service Contour	657,083	35,077.2
OET Bulletin 69 method		
Within noise limited contour	666,057	35,159.3
Not affected by terrain losses	662,626	35,011.0
Lost to all interference	3,009	152.3
Net DTV Service	659,617	34,858.7



**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 1 of 10)

TW Census data selected 2000  
Data Base Selected  
/space/software/cdbs/pt\_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-20-2010 Time: 12:09:39

Record Selected for Analysis

WJHG-TV USERRECORD-01 PANAMA CITY FL US  
Channel 07 ERP 67. kW HAAT 262. m RCAMSL 00301 m  
Latitude 030-25-59 Longitude 0085-24-51  
Status APP Zone 3 Border Site number: 01  
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 (site # 01) meets maximum height/power limits

Site number	1		
Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	67.000	244.1	104.7
45.0	67.000	248.5	105.0
90.0	67.000	257.0	105.5
135.0	67.000	269.8	106.2
180.0	67.000	275.8	106.5
225.0	67.000	274.9	106.4
270.0	67.000	271.0	106.2
315.0	67.000	255.0	105.4

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap  
to Class A stations from site # 01

Class A Evaluation Complete

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 2 of 10)

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Call	Proposed Station City/State	ARN
07	WJHG-TV	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	LIC	BLEDT	20090227AAW
07	WVUA-CA	TUSCALOOSA/NORTHPORT AL	362.3	LIC	BLTTL	19991220ABJ
07	WJCT	JACKSONVILLE FL	369.1	CP	BPEDT	20080414AAK
07	WFLA-TV	TAMPA FL	420.1	LIC	BLCDDT	19991110AAS
07	WFLA-TV	TAMPA FL	420.1	CP	BPCDDT	20080619ACD
07	WMUM-TV	COCHRAN GA	305.2	LIC	BLEDT	20080423AAM
07	WDAM-TV	LAUREL MS	386.0	CP MOD	BMPCDDT	20091028AAJ
07	WDAM-DR	LAUREL MS	386.0	APP	BPRM	20090813ADN
08	WACS-TV	DAWSON GA	186.1	LIC	BLEDT	20080516AAO

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	BLEDT	-20090227AAW

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	-DTVPLN0056
07	WMUM-TV	COCHRAN GA	263.5	LIC	BLEDT	-20080423AAM
07	WDAM-TV	LAUREL MS	396.5	CP MOD	BMPCDDT	-20091028AAJ
07	WDAM-DR	LAUREL MS	396.5	APP	BPRM	-20090813ADN
07	WSPA-TV	SPARTANBURG SC	373.3	CP MOD	BMPCDDT	-20080619ABN
07	WMAK	KNOXVILLE TN	328.8	CP	BPCDDT	-20080801ASS
07	WMAK	KNOXVILLE TN	328.8	LIC	BLCDDT	-20040810ABE
08	WGTV	ATHENS GA	158.1	LIC	BLEDT	-20090612ACE
08	WACS-TV	DAWSON GA	208.2	LIC	BLEDT	-20080516AAO
07	WJHG-TV	PANAMA CITY FL	341.3	APP	USERRECORD-01	

Total scenarios = 6

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 7A AL MOUNT CHEAHA BLEDT 20090227AAW LIC  
HAAT 576.0 m, ATV ERP 34.8 kW  
POPULATION AREA (sq km)

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 3 of 10)

within Noise Limited Contour	2712108	47271.9
not affected by terrain losses	2604557	45241.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	138753	1144.2
lost to ATV IX only	138753	1144.2
lost to all IX	138753	1144.2

Potential Interfering Stations Included in above Scenario 1

7A GA COCHRAN	BLEDT	20080423AAM	LIC
7A MS LAUREL	BMPCDT	20091028AAJ	CP
7A SC SPARTANBURG	BMPCDT	20080619ABN	CP
7A TN KNOXVILLE	BPCDT	20080801ASS	CP
8A GA ATHENS	BLEDT	20090612ACE	LIC
7A FL PANAMA CITY	DTVPLN	DTVP0056	PLN

After Analysis

Results for: 7A AL MOUNT CHEAHA BLEDT 20090227AAW LIC  
HAAT 576.0 m, ATV ERP 34.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2712108	47271.9
not affected by terrain losses	2604557	45241.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	143373	1349.7
lost to ATV IX only	143373	1349.7
lost to all IX	143373	1349.7

Potential Interfering Stations Included in above Scenario 1

7A GA COCHRAN	BLEDT	20080423AAM	LIC
7A MS LAUREL	BMPCDT	20091028AAJ	CP
7A SC SPARTANBURG	BMPCDT	20080619ABN	CP
7A TN KNOXVILLE	BPCDT	20080801ASS	CP
8A GA ATHENS	BLEDT	20090612ACE	LIC
7A FL PANAMA CITY	USERRECORD01		APP

Percent new IX = 0.1874%

Worst case new IX 0.1874% 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	WVUA-CA	TUSCALOOSA/NORTHPORT AL	BLTTL	-19991220ABJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	WCIQ	MOUNT CHEAHA AL	162.5	LIC	BLEDT	-20090227AAW
07	WJHG-TV	PANAMA CITY FL	362.2	PLN	DTVPLN	-DTVP0056
07	WDAM-TV	LAUREL MS	252.2	CP MOD	BMPCDT	-20091028AAJ
07	WDAM-DR	LAUREL MS	252.2	APP	BPRM	-20090813ADN
07	WJHG-TV	PANAMA CITY FL	362.3	APP	USERRECORD-01	

Proposal causes no interference

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**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 4 of 10)

Analysis of Interference to Affected Station 3

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	-DTVP0056
07	WFLA-TV	TAMPA FL	279.3	LIC	BLCDDT	-19991110AAS
07	WFLA-TV	TAMPA FL	279.3	CP	BPCDDT	-20080619ACD
07	WMUM-TV	COCHRAN GA	291.1	LIC	BLEDT	-20080423AAM
07	WITV	CHARLESTON SC	343.1	LIC	BLEDT	-20090304ABI
08	WXGA-TV	WAYCROSS GA	141.8	LIC	BLEDT	-20090612ACD
07	WJHG-TV	PANAMA CITY FL	369.1	APP	USERRECORD-01	

Total scenarios = 2

Result key: 7  
Scenario 1 Affected station 3  
Before Analysis

Results for: 7A FL JACKSONVILLE BPEDT 20080414AAK CP  
HAAT 302.0 m, ATV ERP 18.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1342601	27619.3
not affected by terrain losses	1342377	27595.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5044	477.6
lost to ATV IX only	5044	477.6
lost to all IX	5044	477.6

Potential Interfering Stations Included in above Scenario 1

7A FL TAMPA	BLCDDT	19991110AAS	LIC
7A GA COCHRAN	BLEDT	20080423AAM	LIC
8A GA WAYCROSS	BLEDT	20090612ACD	LIC

After Analysis

Results for: 7A FL JACKSONVILLE BPEDT 20080414AAK CP  
HAAT 302.0 m, ATV ERP 18.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1342601	27619.3
not affected by terrain losses	1342377	27595.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5044	477.6
lost to ATV IX only	5044	477.6
lost to all IX	5044	477.6

Potential Interfering Stations Included in above Scenario 1

7A FL TAMPA	BLCDDT	19991110AAS	LIC
7A GA COCHRAN	BLEDT	20080423AAM	LIC
8A GA WAYCROSS	BLEDT	20090612ACD	LIC
7A FL PANAMA CITY	USERRECORD01		APP

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 5 of 10)

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

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

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WJCT	JACKSONVILLE FL	279.3	CP	BPEDT -20080414AAK
07	WSVN	MIAMI FL	291.1	CP	BPEDT -20090619ACI
07	WJHG-TV	PANAMA CITY FL	420.2	PLN	DTVPLN -DTVP0056
07	WJHG-TV	PANAMA CITY FL	420.1	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	WFLA-TV	TAMPA FL	BPCDDT -20080619ACD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WJCT	JACKSONVILLE FL	279.3	CP	BPEDT -20080414AAK
07	WSVN	MIAMI FL	291.1	CP	BPEDT -20090619ACI
07	WJHG-TV	PANAMA CITY FL	420.2	PLN	DTVPLN -DTVP0056
07	WJHG-TV	PANAMA CITY FL	420.1	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	WMUM-TV	COCHRAN GA	BLEDDT -20080423AAM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WCIQ	MOUNT CHEAHA AL	263.5	LIC	BLEDDT -20090227AAW
07	WJCT	JACKSONVILLE FL	291.1	CP	BPEDT -20080414AAK
07	WJHG-TV	PANAMA CITY FL	305.2	PLN	DTVPLN -DTVP0056
07	WITV	CHARLESTON SC	336.4	LIC	BLEDDT -20090304ABI
07	WSPA-TV	SPARTANBURG SC	313.1	CP MOD	BMPCDDT -20080619ABN
07	WMAK	KNOXVILLE TN	398.4	CP	BPEDT -20080801ASS
07	WMAK	KNOXVILLE TN	398.4	LIC	BLCDDT -20040810ABE

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 6 of 10)

08	WGTV	ATHENS GA	170.0	LIC	BLEDDT	-20090612ACE
08	WACS-TV	DAWSON GA	135.8	LIC	BLEDDT	-20080516AAO
08	WXGA-TV	WAYCROSS GA	152.9	LIC	BLEDDT	-20090612ACD
07	WJHG-TV	PANAMA CITY FL	305.2	APP	USERRECORD-01	

Total scenarios = 1

Result key: 9

Scenario 1 Affected station 6

Before Analysis

Results for: 7A GA COCHRAN BLEDDT 20080423AAM LIC  
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	16947	1010.4
lost to ATV IX only	16947	1010.4
lost to all IX	16947	1010.4

Potential Interfering Stations Included in above Scenario 1

7A AL MOUNT CHEAHA	BLEDDT	20090227AAW	LIC
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A SC CHARLESTON	BLEDDT	20090304ABI	LIC
7A SC SPARTANBURG	BMPCDDT	20080619ABN	CP
8A GA DAWSON	BLEDDT	20080516AAO	LIC
8A GA WAYCROSS	BLEDDT	20090612ACD	LIC
7A FL PANAMA CITY	DTVPLN	DTVP0056	PLN

After Analysis

Results for: 7A GA COCHRAN BLEDDT 20080423AAM LIC  
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	20645	1332.5
lost to ATV IX only	20645	1332.5
lost to all IX	20645	1332.5

Potential Interfering Stations Included in above Scenario 1

7A AL MOUNT CHEAHA	BLEDDT	20090227AAW	LIC
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A SC CHARLESTON	BLEDDT	20090304ABI	LIC
7A SC SPARTANBURG	BMPCDDT	20080619ABN	CP
8A GA DAWSON	BLEDDT	20080516AAO	LIC
8A GA WAYCROSS	BLEDDT	20090612ACD	LIC
7A FL PANAMA CITY	USERRECORD01		APP

Percent new IX = 0.4732%

Worst case new IX 0.4732% Scenario 1

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Analysis of Interference to Affected Station 7

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 7 of 10)

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 07 WDAM-TV LAUREL MS BMPCDT -20091028AAJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WCIQ	MOUNT CHEAHA AL	396.5	LIC	BLEDT -20090227AAW
07	WJHG-TV	PANAMA CITY FL	386.0	PLN	DTVPLN -DTVPO056
07	KPLC	LAKE CHARLES LA	373.3	CP MOD	BMPCDT -20090722ABU
07	WDAM-DR	LAUREL MS	0.0	APP	BPRM -20090813ADN
07	WJHG-TV	PANAMA CITY FL	386.0	APP	USERRECORD-01

Total scenarios = 3

Result key: 10  
 Scenario 1 Affected station 7  
 Before Analysis

Results for: 7A MS LAUREL BMPCDT 20091028AAJ CP  
 HAAT 155.0 m, ATV ERP 75.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	484065	29298.7
not affected by terrain losses	472228	28049.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3482	184.8
lost to ATV IX only	3482	184.8
lost to all IX	3482	184.8

Potential Interfering Stations Included in above Scenario 1

7A LA LAKE CHARLES BMPCDT 20090722ABU CP

After Analysis

Results for: 7A MS LAUREL BMPCDT 20091028AAJ CP  
 HAAT 155.0 m, ATV ERP 75.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	484065	29298.7
not affected by terrain losses	472228	28049.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3541	208.9
lost to ATV IX only	3541	208.9
lost to all IX	3541	208.9

Potential Interfering Stations Included in above Scenario 1

7A LA LAKE CHARLES BMPCDT 20090722ABU CP  
 7A FL PANAMA CITY USERRECORD01 APP

Percent new IX = 0.0126%

Worst case new IX 0.0126% Scenario 1

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Analysis of Interference to Affected Station 8

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 8 of 10)

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 07 WDAM-DR LAUREL MS BPRM -20090813ADN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WCIQ	MOUNT CHEAHA AL	396.5	LIC	BLEDT -20090227AAW
07	WJHG-TV	PANAMA CITY FL	386.0	PLN	DTVPLN -DTVPO056
07	KPLC	LAKE CHARLES LA	373.3	CP MOD	BMPCDT -20090722ABU
07	WDAM-TV	LAUREL MS	0.0	CP MOD	BMPCDT -20091028AAJ
07	WJHG-TV	PANAMA CITY FL	386.0	APP	USERRECORD-01

Total scenarios = 1

Result key: 13  
 Scenario 1 Affected station 8  
 Before Analysis

Results for: 7A MS LAUREL BPRM 20090813ADN APP  
 HAAT 155.0 m, ATV ERP 75.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	484065	29298.7
not affected by terrain losses	472228	28049.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	443358	25501.7
lost to ATV IX only	443358	25501.7
lost to all IX	443358	25501.7

Potential Interfering Stations Included in above Scenario 1

7A LA LAKE CHARLES BMPCDT 20090722ABU CP  
 7A MS LAUREL BMPCDT 20091028AAJ CP

After Analysis

Results for: 7A MS LAUREL BPRM 20090813ADN APP  
 HAAT 155.0 m, ATV ERP 75.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	484065	29298.7
not affected by terrain losses	472228	28049.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	443358	25501.7
lost to ATV IX only	443358	25501.7
lost to all IX	443358	25501.7

Potential Interfering Stations Included in above Scenario 1

7A LA LAKE CHARLES BMPCDT 20090722ABU CP  
 7A MS LAUREL BMPCDT 20091028AAJ 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 9

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 9 of 10)

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 08 WACS-TV DAWSON GA BLEDT -20080516AAO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
07	WCIQ	MOUNT CHEAHA AL	208.2	LIC BLEDT	-20090227AAW
07	WJHG-TV	PANAMA CITY FL	186.1	PLN DTVPLN	-DTVPO056
07	WMUM-TV	COCHRAN GA	135.8	LIC BLEDT	-20080423AAM
08	WGTV	ATHENS GA	211.1	LIC BLEDT	-20090612ACE
08	WXGA-TV	WAYCROSS GA	203.8	LIC BLEDT	-20090612ACD
08	WOLO-TV	COLUMBIA SC	428.2	CP BPCDT	-20100226ABM
08	WOLO-TV	COLUMBIA SC	428.2	LIC BLCDDT	-20021106AAU
09	WPGX	PANAMA CITY FL	195.1	LIC BLCDDT	-20060622AAR
09	WPGX	PANAMA CITY FL	195.1	CP BPCDDT	-20080620AKU
07	WJHG-TV	PANAMA CITY FL	186.1	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 WJHG-TV 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	LIC BLEDT	-20090227AAW
07	WJCT	JACKSONVILLE FL	369.1	CP BPEDT	-20080414AAK
07	WFLA-TV	TAMPA FL	420.1	LIC BLCDDT	-19991110AAS
07	WFLA-TV	TAMPA FL	420.1	CP BPCDDT	-20080619ACD
07	WMUM-TV	COCHRAN GA	305.2	LIC BLEDT	-20080423AAM
07	WDAM-TV	LAUREL MS	386.0	CP MOD BMPCDDT	-20091028AAJ
07	WDAM-DR	LAUREL MS	386.0	APP BPRM	-20090813ADN
08	WACS-TV	DAWSON GA	186.1	LIC BLEDT	-20080516AAO

Total scenarios = 3

Result key: 14  
 Scenario 1 Affected station 10  
 Before Analysis

Results for: 7A FL PANAMA CITY USERRECORD01 APP  
 HAAT 262.0 m, ATV ERP 67.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	666057	35159.3
not affected by terrain losses	662626	35011.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3009	152.3
lost to ATV IX only	3009	152.3
lost to all IX	3009	152.3

Potential Interfering Stations Included in above Scenario 1

**Table 1 WJHG-TV OET Bulletin 69 Interference Study**  
(page 10 of 10)

7A AL MOUNT CHEAHA	BLEDT	20090227AAW	LIC
7A FL JACKSONVILLE	BPEDT	20080414AAK	CP
7A GA COCHRAN	BLEDT	20080423AAM	LIC
7A MS LAUREL	BMPCDDT	20091028AAJ	CP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

SECTION III-D - DTV Engineering	
<b>Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.</b>	
<p><b>Pre-Transition Certification Checklist:</b> 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.</p> <p><b>Post-Transition Expedited Processing.</b> 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.</p>	
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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input type="radio"/> Yes <input type="radio"/> 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.	<input type="radio"/> Yes <input type="radio"/> 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").	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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 <b>submit the Exhibit</b> called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> No

SECTION III-D - DTV Engineering	
<b>TECHNICAL SPECIFICATIONS</b>	
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.	
<b>TECH BOX</b>	
1. Channel Number:	DTV 7 Analog TV, if any
2. Zone:	<input type="radio"/> I <input type="radio"/> II <input checked="" type="radio"/> III
3. Antenna Location Coordinates: (NAD 27)	Latitude: Degrees 30 Minutes 25 Seconds 59 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 85 Minutes 24 Seconds 51 <input checked="" type="radio"/> West <input type="radio"/> East
4. Antenna Structure Registration Number: 1029017	<input type="checkbox"/> Not Applicable <input type="checkbox"/> 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:	258.5 meters
8. Height of Radiation Center Above Average Terrain :	261.8 meters
9. Maximum Effective Radiated Power (average power):	67 kW

10.	<p>Antenna Specifications:</p> <p>a. Manufacturer GE Model TY-70-H</p> <p>b. Electrical Beam Tilt: degrees <input checked="" type="checkbox"/> Not Applicable</p> <p>c. Mechanical Beam Tilt: degrees toward azimuth degrees True <input checked="" type="checkbox"/> Not Applicable</p> <p>Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c). <span style="float: right;">[Exhibit 43]</span></p> <p>d. Polarization: <input checked="" type="radio"/> Horizontal <input type="radio"/> Circular <input type="radio"/> Elliptical</p> <p>e. Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional)</p> <p>[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.] [Relative Field Values]</p> <hr/> <p>If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. <b>Exhibit required.</b> <span style="float: right;">[Exhibit 44]</span></p>
11.	<p>Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if <b>Certification Checklist</b> 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? <span style="float: right;"><input checked="" type="radio"/> Yes <input type="radio"/> No</span></p> <p style="text-align: right;">[Exhibit 45]</p> <p>If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.</p>
12.	<p>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 <b>Certification Checklist</b> item 3 is answered "No.") <span style="float: right;">[Exhibit 46]</span></p>
13.	<p><b>Environmental Protection Act. Submit in an Exhibit</b> the following: <span style="float: right;">[Exhibit 47]</span></p> <p>If <b>Certification Checklist</b> 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.</p> <p>By checking "Yes" to <b>Certification Checklist</b> 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.</p> <p>If <b>Certification Checklist</b> Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.</p>
<p><b>PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.</b></p>	

### 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 9/20/2010	
Mailing Address CHESAPEAKE RF CONSULTANTS, LLC PO BOX 1088		
City YORKTOWN	State or Country (if foreign address) VA	Zip Code 23692 -
Telephone Number (include area code) 7036509600	E-Mail Address (if available) JOSEPH.DAVIS@RF-CONSULTANTS.COM	