

## **ENGINEERING EXHIBIT**

### **Application for Modification of Class A Television Station Construction Permit**

prepared for

#### **Gray Television Licensee, LLC**

WAGT-CD Augusta, GA

Facility ID 3369

Ch. 30 15 kW

*Gray Television Licensee, LLC* (“Gray”) is the licensee of Class A television station WAGT-CD, Channel 16, Facility ID 3369, Augusta, GA. WAGT-CD is licensed to operate on Channel 16 with 6.9 kW effective radiated power (“ERP”), directional (file# 0000001455). A Construction Permit (“CP” file# 0000035762) authorizes modification of WAGT-CD to relocate the Channel 16 facility, increase the ERP and antenna height, and utilize a different directional antenna pattern. WAGT-CD presently operates on Channel 30 at an alternate site location pursuant to Special Temporary Authority (file# 0000007776, as extended by 0000035438), with 15 kW ERP nondirectional. *Gray* proposes herein a major modification of the CP to specify permanent operation on Channel 30 with the facilities as presently operating.

The existing WAGT-CD STA facility employs a top-mount nondirectional antenna on the tower structure associated with Antenna Structure Registration number 1058894. The antenna and tower were previously utilized by *Gray’s* WAGT(DT) (Ch. 30, Facility ID 70699, Augusta, GA). *Gray* relinquished WAGT’s Channel 30 spectrum in the FCC’s incentive auction,<sup>1</sup> and the WAGT license has been cancelled. The existing STA permits WAGT-CD to operate on Channel 30 with the existing transmitting and antenna system utilized by the former WAGT facility.

The CP authorizing relocation of the WAGT-CD Channel 16 facility came about via a minor modification application filed during the recent temporary lift of the freeze on coverage contour expansion.<sup>2</sup> As authorized in the CP, a directional antenna is necessary for the expanded

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<sup>1</sup>*Incentive Auction Closing and Channel Reassignment Public Notice*, DA 17-317, released April 13, 2017.

<sup>2</sup>Public Notice “*Media Bureau Temporarily Lifts the Freeze on the Filing of Minor Modification*

Channel 16 facility in order to avoid creating impermissible interference to co-channel station WSAV-TV (repack Ch. 16, Facility ID 48662, Savannah, GA), located 158 km from the CP site.

For the reasons stated below, *Gray* is requesting a waiver of §73.3572(e) and the expansion “freeze” Public Notice<sup>3</sup> to allow this channel change proposal.

1. The Channel 30 STA facility has allowed *Gray* to continue to provide NBC network and other programming in the Augusta market immediately upon surrender of the full service WAGT license. Now, *Gray* is not seeking any technical change in the actual WAGT-CD facility and proposes to permanently license the station’s existing Channel 30 facility. Maintaining the status quo is in the public interest because WAGT-CD is the NBC affiliate for the Augusta market and viewers have watched NBC network, local news, and other programming on this channel exclusively since the DTV transition in 2009 (and in digital beginning in 2003 when the Channel 30 WAGT facility was first constructed). Remaining on Channel 30 would eliminate the need for any receiver re-scan, avoidance of which is desirable according to the FCC’s post-auction transition scheduling plan.<sup>4</sup>
2. Upon the temporary lifting of the contour expansion freeze, *Gray* sought relocation and expansion of the WAGT-CD Channel 16 facility. However, the expansion achievable on the licensed Channel 16 is limited by the requirement to provide interference protection to WSAV-TV. Utilizing Channel 16, expanded to the extent possible, would still result in loss of service (NBC network) to areas which are presently covered by the facility proposed herein (see Figure 1). The loss area encompasses 30,339 persons, which is 4.98 percent of the total population (609,041 persons) within the Channel 30 STA

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*Applications that Expand the Contour of Full Power and Class A Television Stations from November 28 through December 7, 2017*” DA 17-1086, released November 6, 2017.

<sup>3</sup>“Media Bureau Announces Limitations on the Filing and Processing of Full Power and Class A Television Station Modification Applications, Effective Immediately, and Reminds Stations of Spectrum Act Preservation Mandate,” DA 13-618, Public Notice, released April 5, 2013.

<sup>4</sup>*Incentive Auction Task Force and Media Bureau Adopt a Post-Incentive Auction Transition Scheduling Plan*, Public Notice, DA 17-107, released January 27, 2017.

facility's 51 dBμ contour. The Commission routinely has held that "changes in channel allotments that would result in a loss in television service are generally considered *prima facie* inconsistent with the public interest. . . ."<sup>5</sup> The same holds true here: moving WAGT-CD from channel 30 to channel 16 and producing a 5% loss area runs counter to the public interest.

3. The sole remaining purpose of the freeze is to provide certainty to displaced LPTV and translator stations and allow them "to more accurately identify available channels in their area by considering the adjustments of full power and Class A stations . . . ."<sup>6</sup> Prompt grant of the instant application would accomplish the clarity sought by these goals. Upon grant, *Gray* would immediately surrender any rights to Channel 16, clearly identifying the channel as free for displaced LPTV and translator stations.
4. The Channel 30 STA facility was not displaced as a result of channel reassignments and/or associated station modifications. The proposed permanent operation on Channel 30 complies with all relevant protection requirements to all other stations, pre-auction and post-auction. Table 1 supplies the results of an interference study per OET Bulletin 69.<sup>7</sup>

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<sup>5</sup>*Amendment of Section 73.622(i), Post-Transition Table of DTV Allotments, Television Broadcast Stations (Fond du Lac, Wisconsin)*, 26 FCC Rcd 12712, para. 9 (M.B. 2011).

<sup>6</sup>*Freeze on the Filing of Modification Applications to Be Lifted Temporarily to Permit Filing of Applications to Expand the Contours of Full Power and Class A Television Stations That Are Not Part of the Post-Incentive Auction Repack Process*, Public Notice, DA 17-1033, para. 6 (rel. Oct. 19, 2017).

<sup>7</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 1 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.

### **Human Exposure to Radiofrequency Electromagnetic Field (Environmental)**

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number. 65. Based on OET-65 equation (10) and the worst-case of 100% field at all elevations, the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $2.5 \mu\text{W}/\text{cm}^2$ , which is 0.7 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent. When the antenna's elevation pattern is considered, the calculated electromagnetic field will be even lower.

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. An existing antenna will be utilized and no tower work is required to carry out this proposal.

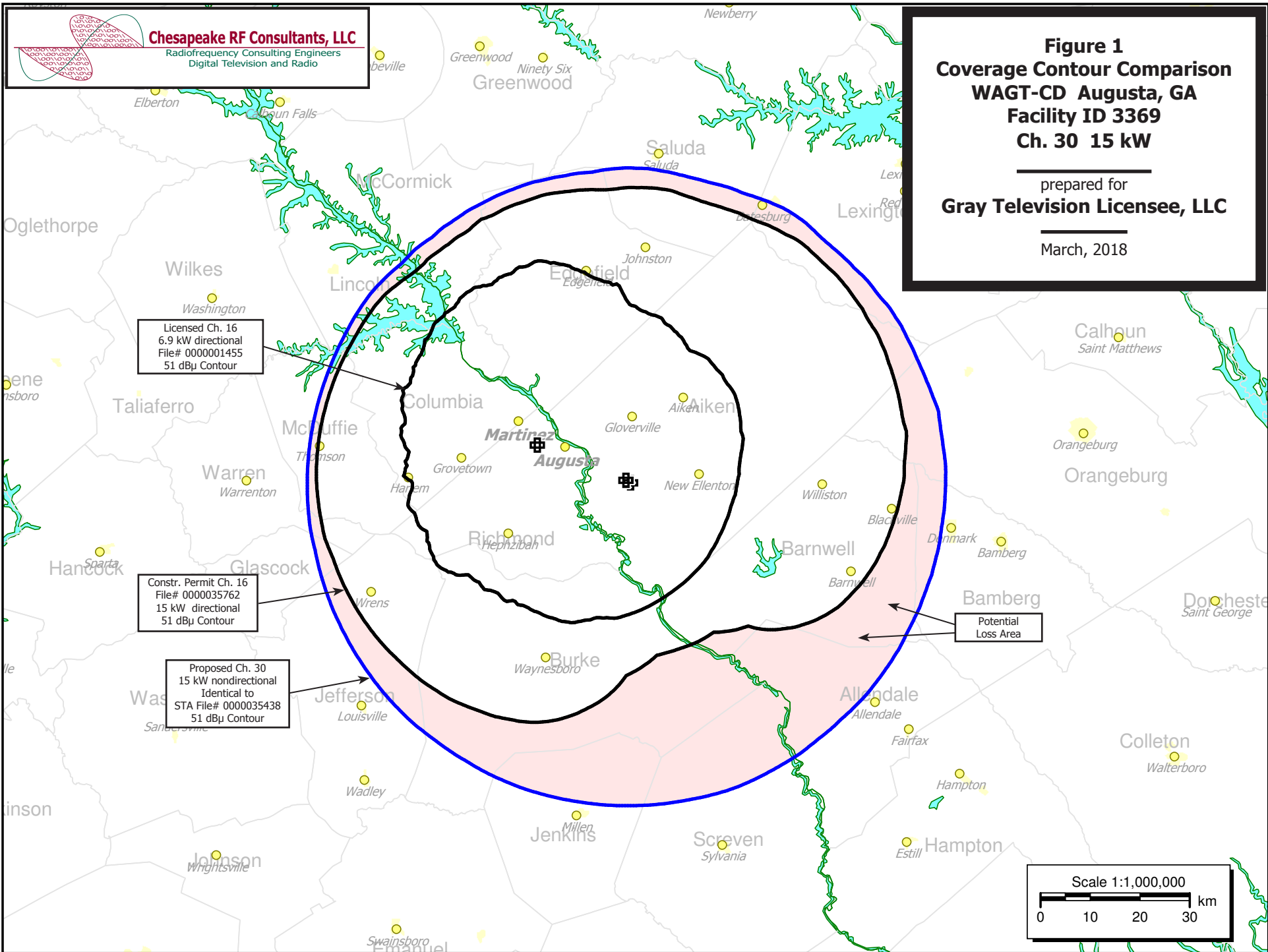
#### List of Attachments

Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

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

Joseph M. Davis, P.E.	March 21, 2018	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600

**Figure 1**  
**Coverage Contour Comparison**  
**WAGT-CD Augusta, GA**  
**Facility ID 3369**  
**Ch. 30 15 kW**  
  
prepared for  
**Gray Television Licensee, LLC**  
  
March, 2018



**Table 1 WAGT-CD OET Bulletin 69 Interference Study**  
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tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WAGT-CD STA BLANK0000007776 prop, Model: Longley-Rice  
Start: 2018.03.20 14:38:51

Study created: 2018.03.20 14:38:50

Study build station data: LMS TV 2018-03-19

Proposal: WAGT-CD D30 DC APP AUGUSTA, GA  
File number: WAGT-CD STA BLANK0000007776  
Facility ID: 3369  
Station data: User record  
Record ID: 1901  
Country: U.S.

**Build options:**

Protect pre-transition records not on baseline channel  
Protect LPTV records from Class A

**Search options:**

Baseline record excluded if station has CP

**Stations potentially affected by proposal:**

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	130.5 km
No	W29DN-D	D29	LD	CP	ATHENS, GA	BPDTL20140228AEM	171.8
Yes	WDZC-LD	D29	LD	CP	AUGUSTA, GA	BMPDTL20140528ACZ	32.5
No	NEW	D29	LD	APP	MACON, GA	BNPDTT20090825BMS	190.6
No	W29EN-D	D29	LD	CP	SOPERTON, GA	BNPDTL20100510AHF	122.7
No	W29EC-D	D29	LD	CP	FLORENCE, SC	BNPDTL20100409ABX	206.7
No	WAZS-LD	D29	LD	LIC	NORTH CHARLESTON, SC	BLDTL20100916ADH	169.5
No	WSQY-LP	D29	LD	CP	SPARTANBURG, SC	BDISDTL20110824BCU	178.8
Yes	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000025019	154.0
No	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	461.3
No	W30BD	N30z	TX	LIC	EUFULA, AL	BLTTL19960628JF	353.3
No	WGIQ	D30	DT	CP	LOUISVILLE, AL	BLANK0000027851	385.9
Yes	WIGA	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	301.3
No	WVUP-CD	D30	DC	CP	TALLAHASSEE, FL	BLANK0000025327	385.9
No	NEW	D30	LD	APP	TALLHASSEE, FL	BNPDTL20090825AJK	398.0
No	WTBS-LD	D30	LD	LIC	ATLANTA, GA	BLDTL20110105ABR	236.2
No	WDGA-CD	D30	DC	CP	DALTON, GA	BLANK0000028635	328.2
Yes	WMGT-TV	D30	DT	CP	MACON, GA	BLANK0000026604	176.6
No	NEW	D30	LD	APP	TALLAHASSEE, GA	BNPDTL20090825AAK	398.0
No	W30DW-D	D30	LD	LIC	TIFTON, GA	BLDTT20141124ARP	273.4
No	WVCZ-LD	D30	LD	LIC	VALDOSTA, GA	BLANK0000001216	327.8
No	WVCZ-LD	D30	LD	CP	VALDOSTA, GA	BLANK0000001343	322.7
No	W30CR-D	D30	LD	LIC	BISCOE, NC	BLDTT20101029AAJ	277.4
No	W30DX-D	D30	LD	CP	BRYSON CITY, ETC, NC	BDCCDTT20140611AAE	270.4
No	WSOC-TV	D30	LD	LIC	CHARLOTTE, NC	BLCDT20100119ACN	209.4
No	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	299.7
No	WSFX-TV	D30	DT	LIC	WILMINGTON, NC	BLCDT20110209AAO	346.4
No	W30CS-D	D30	LD	LIC	ZIONVILLE, NC	BLDTT20090615AAL	322.1
No	W30DH-D	D30	LD	CP	FLORENCE, SC	BNPDTL20100409ABY	206.7
Yes	WYFF	D30	DT	CP	GREENVILLE, SC	BLANK0000034525	202.5
No	W30CV-D	D30	DC	LIC	HILTON HEAD ISLAND, SC	BLDTL20110110AAR	171.3
No	W21BZ	N30-	TX	LIC	COLLEGE DALE, TN	BLTTL19990802JH	348.0
Yes	WVLT-TV	D30	DT	LIC	KNOXVILLE, TN	BLCDT20120103ABR	347.1
No	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	447.8
No	WSLS-TV	D30	DT	LIC	ROANOKE, VA	BLCDT20110615ABO	448.7
No	WPCH-TV	D31	DT	CP	ATLANTA, GA	BLANK0000025264	236.2
Yes	WFXG	D31	DT	LIC	AUGUSTA, GA	BLANK0000013467	1.2
No	WDMA-CD	D31	DC	LIC	MACON, GA	BLDTA20140602AAA	182.2
No	WJNI-LD	D31	LD	LIC	NORTH CHARLESTON, SC	BLDTL20100916ADG	169.5
No	W31DY-D	D31	LD	CP	PICKENS, SC	BDCCDTT20120614AAI	178.7
Yes	WKTC	D31	DT	CP	SUMTER, SC	BLANK0000027544	126.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

**Table 1 WAGT-CD OET Bulletin 69 Interference Study**  
(page 2 of 5)



Channel: D30  
Mask: Stringent  
Latitude: 33 24 20.70 N (NAD83)  
Longitude: 81 50 0.50 W  
Height AMSL: 562.2 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 0.75

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	462.3 m	64.2 km
45.0	15.0	438.0	63.2
90.0	15.0	461.7	64.1
135.0	15.0	471.2	64.5
180.0	15.0	513.8	65.7
225.0	15.0	523.1	66.0
270.0	15.0	518.7	65.9
315.0	15.0	476.2	64.6

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 483 m

Distance to Canadian border: 920.6 km

Distance to Mexican border: 1672.3 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 281.5 degrees Distance: 272.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 296.5 degrees Distance: 2204.6 km

Study cell size: 1.00 km  
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to BMPDTL20140528ACZ CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDZC-LD	D29	LD	CP	AUGUSTA, GA	BMPDTL20140528ACZ	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	32.5 km
	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	32.5
	WJEA-LD	D28	LD	CP	AUGUSTA, GA	BNPDTL20100401AAG	0.0
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	106.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
201.7	57,584	181.9	44,955	40.7	7,051	40.7 7,051	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WAGT-CD D30 DC APP				40.7 9,185	0.0 0	0.0 0	
WJBF D28 DT CP				38.8 9,041	0.0 0	0.0 0	
WJEA-LD D28 LD CP				141.1 37,904	102.4 28,863	100.4 28,719	

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Interference to BLANK0000025019 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000025019	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	154.0 km
	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	154.0
	WHMC	D28	DT	APP	CONWAY, SC	BLANK0000034492	107.5



**Table 1 WAGT-CD OET Bulletin 69 Interference Study**  
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WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000034230	193.9
WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	224.5
WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	151.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23101.8 1,127,650	22981.5 1,122,951	22250.1 1,108,768	22250.1 1,108,768	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WAGT-CD D30 DC APP	13.9 390	0.0 0	0.0 0
WJBF D28 DT CP	20.8 1,006	14.9 864	6.9 616
WHMC D28 DT APP	149.2 1,611	57.4 686	57.4 686
WSFX-TV D29 DT CP	179.1 2,958	66.3 1,019	66.3 1,019
WXLV-TV D29 DT LIC	501.1 10,689	476.2 9,594	476.2 9,594
WUNU D30 DT CP	2.0 0	0.0 0	0.0 0

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Interference to BLCDT20140827ABB LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLGA	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	301.3 km
	WBIH	D29	DT	LIC	SELMA, AL	BLCDT20090619AAY	194.0
	WANN-CD	D29	DC	LIC	ATLANTA, GA	BLDTA20120402AMZ	170.5
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	228.3
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	187.8
	WDMA-CD	D31	DC	LIC	MACON, GA	BLDTA20140602AAA	119.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33768.3 947,969	33417.7 941,431	32769.6 925,885	32766.6 925,885	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WAGT-CD D30 DC APP	7.0 0	3.0 0	0.0 0
WBIH D29 DT LIC	2.0 0	0.0 0	0.0 0
WANN-CD D29 DC LIC	105.4 6,761	84.6 6,220	84.6 6,220
WIAT D30 DT LIC	550.6 9,114	502.6 8,457	501.6 8,457
WNCF D31 DT LIC	30.2 192	5.0 76	5.0 76
WDMA-CD D31 DC LIC	9.0 136	7.0 136	6.0 136

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Interference to BLCDT20140827ABB LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLGA	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	301.3 km
	WBIH	D29	DT	LIC	SELMA, AL	BLCDT20090619AAY	194.0
	WANN-CD	D29	DC	LIC	ATLANTA, GA	BLDTL20090915ADO	170.5
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	228.3
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	187.8
	WDMA-CD	D31	DC	LIC	MACON, GA	BLDTA20140602AAA	119.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33768.3 947,969	33417.7 941,431	32769.6 925,885	32766.6 925,885	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WAGT-CD D30 DC APP	7.0 0	3.0 0	0.0 0
WBIH D29 DT LIC	2.0 0	0.0 0	0.0 0
WANN-CD D29 DC LIC	105.4 6,761	84.6 6,220	84.6 6,220
WIAT D30 DT LIC	550.6 9,114	502.6 8,457	501.6 8,457
WNCF D31 DT LIC	30.2 192	5.0 76	5.0 76
WDMA-CD D31 DC LIC	9.0 136	7.0 136	6.0 136

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Interference to BLANK0000026604 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMGT-TV	D30	DT	CP	MACON, GA	BLANK0000026604	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	176.6 km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	312.7
	WGIQ	D30	DT	CP	LOUISVILLE, AL	BLANK00000027851	210.2
	WYFF	D30	DT	CP	GREENVILLE, SC	BLANK0000034525	276.6



**Table 1 WAGT-CD OET Bulletin 69 Interference Study**  
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WPCH-TV	D31	DT	CP	ATLANTA, GA	BLANK0000025264	137.6
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15348.1	602,400	15261.2	601,674	14987.1	594,413	14971.1 594,406 0.11 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after	
WAGT-CD D30 DC APP	48.9	111			16.0	7
WIAT D30 DT LIC	7.0	44	0.0	0	0.0	0
WGIQ D30 DT CP	87.9	2,348	41.0	1,197	29.0	1,153
WYFF D30 DT CP	228.1	6,030	182.3	4,899	169.3	4,886
WPCH-TV D31 DT CP	3.0	14	2.0	14	2.0	14

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Interference to BLANK0000034525 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WYFF	D30	DT	CP	GREENVILLE, SC	BLANK0000034525	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	202.5 km
	WKOP-TV	D29	DT	CP	KNOXVILLE, TN	BLANK0000024513	156.7
	WMGT-TV	D30	DT	CP	MACON, GA	BLANK0000026604	276.6
	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	348.1
	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	326.3
	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000028214	399.1
	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	319.3
	WPCH-TV	D31	DT	CP	ATLANTA, GA	BLANK0000025264	215.0
	WKTC	D31	DT	CP	SUMTER, SC	BLANK0000027544	201.6
	WBXX-TV	D31	DT	CP	CROSSVILLE, TN	BLANK0000025087	191.8

Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
45301.7	2,629,601	40241.2	2,421,024	39810.0	2,392,584	39259.6 2,386,340 1.38 0.26
Undesired	Total IX		Unique IX, before		Unique IX, after	
WAGT-CD D30 DC APP	592.2	6,908			550.3	6,244
WKOP-TV D29 DT CP	24.8	0	11.9	0	10.9	0
WMGT-TV D30 DT CP	63.9	1,750	63.9	1,750	42.0	1,480
WKMR D30 DT CP	14.0	24	7.0	24	5.0	24
WUNU D30 DT CP	103.6	8,995	58.8	5,915	53.9	5,915
WDBJ D30 DT CP	274.6	20,710	224.8	17,630	220.8	17,614
WPCH-TV D31 DT CP	1.0	6	1.0	6	1.0	6
WKTC D31 DT CP	1.0	35	1.0	35	0.0	0
WBXX-TV D31 DT CP	8.9	0	3.0	0	3.0	0

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Interference to BLCDDT20120103ABR LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVLT-TV	D30	DT	LIC	KNOXVILLE, TN	BLCDDT20120103ABR	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	347.1 km
	WTCI	D29	DT	LIC	CHATTANOOGA, TN	BLANK0000001535	148.4
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDDT20021219AAV	381.6
	WKOH	D30	DT	LIC	OWENBORO, KY	BLEDT20020304ALJ	363.8
	WSLS-TV	D30	DT	LIC	ROANOKE, VA	BLCDDT20110615ABO	365.3
	WPXA-TV	D31	DT	LIC	ROME, GA	BLANK0000001920	197.3

Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
43690.3	1,874,562	34873.8	1,627,555	34507.0	1,615,418	34502.1 1,615,418 0.01 0.00
Undesired	Total IX		Unique IX, before		Unique IX, after	
WAGT-CD D30 DC APP	5.0	0			5.0	0
WTCI D29 DT LIC	286.6	9,946	268.6	9,246	268.6	9,246
WIAT D30 DT LIC	43.8	1,206	24.9	506	24.9	506
WKOH D30 DT LIC	5.0	0	5.0	0	5.0	0
WSLS-TV D30 DT LIC	46.3	1,685	46.3	1,685	46.3	1,685
WPXA-TV D31 DT LIC	4.0	0	3.0	0	3.0	0

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Interference to BLANK0000013467 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXG	D31	DT	LIC	AUGUSTA, GA	BLANK0000013467	

**Table 1 WAGT-CD OET Bulletin 69 Interference Study**  
(page 5 of 5)



Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	1.2 km
	WDMA-CD	D31	DC	LIC	MACON, GA	BLDTA20140602AAA	182.5
	WPXA-TV	D31	DT	LIC	ROME, GA	BLANK0000001920	278.1
	WUNU	D31	DT	LIC	LUMBERTON, NC	BLEDT20091113ABG	299.1
	WXII-TV	D31	DT	LIC	WINSTON-SALEM, NC	BLANK0000029093	354.8
	WRLK-TV	D32	DT	LIC	COLUMBIA, SC	BLEDT20090622ADI	113.9

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
30140.9	1,127,683	29943.3	1,120,073	28894.9	980,183	28687.5	976,314	0.72	0.39

Undesired				Total IX	Unique IX, before	Unique IX, after
WAGT-CD D30 DC APP	235.2			4,860		207.3 3,869
WDMA-CD D31 DC LIC	72.6			341	210	35.8 207
WPXA-TV D31 DT LIC	237.4			757	548	185.6 531
WUNU D31 DT LIC	81.1			9,649	0	4.9 0
WXII-TV D31 DT LIC	118.2			12,915	846	17.1 846
WRLK-TV D32 DT LIC	748.2			137,987	124,659	642.3 124,057

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Interference to BLANK0000027544 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKTC	D31	DT	CP	SUMTER, SC	BLANK0000027544	
Undesireds:	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	126.5 km
	WPCH-TV	D31	DT	CP	ATLANTA, GA	BLANK00000025264	331.4
	WGHP	D31	DT	CP	HIGH POINT, NC	BLANK00000034212	206.5
	WAXN-TV	D32	DT	CP	KANNAPOLIS, NC	BLANK00000034696	127.3

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
27094.0	1,387,531	27016.0	1,387,245	26065.1	1,361,583	25654.8	1,356,158	1.57	0.40

Undesired				Total IX	Unique IX, before	Unique IX, after
WAGT-CD D30 DC APP	496.5			5,908		410.2 5,425
WPCH-TV D31 DT CP	35.9			423	77	4.0 38
WGHP D31 DT CP	937.9			25,585	23,019	776.5 22,736
WAXN-TV D32 DT CP	65.1			2,220	0	5.0 0

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Interference to proposal scenario 1  
0.77% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WAGT-CD	D30	DC	APP	AUGUSTA, GA	WAGT-CD STA BLANK00000	
Undesireds:	WLGA	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	301.3 km
	WFXG	D31	DT	LIC	AUGUSTA, GA	BLANK00000013467	1.2

	Service area		Terrain-limited		IX-free		Percent IX
13178.4	613,808	13152.7	613,608	13049.5	608,857	0.78	0.77

Undesired				Total IX	Unique IX	Prct Unique IX
WLGA D30 DT LIC	1.0			0	0	0.00 0.00
WFXG D31 DT LIC	103.1			4,751	4,751	0.78 0.77

**Channel and Facility Information**

Section	Question	Response
Proposed Community of License	Facility ID	3369
	State	Georgia
	City	AUGUSTA
	DCA Channel	30

**Antenna Location Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1058894
Coordinates (NAD83)	Latitude	33° 24' 20.7" N+
	Longitude	081° 50' 00.5" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	475.6 meters
	Support Structure Height	435.8 meters
	Ground Elevation (AMSL)	115.2 meters
Antenna Data	Height of Radiation Center Above Ground Level	447 meters
	Height of Radiation Center Above Mean Sea Level	562.2 meters
	Effective Radiated Power	15 kW

**Antenna  
Technical Data**

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-28GTH R O4
	Rotation	
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
Elevation Radiation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	
	Out-of-Channel Emission Mask:	Stringent

**Construction  
Permit  
Certifications**

Section	Question	Response
<b>Post-Incentive Auction Expedited Processing</b>	It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.	No
	It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice.	No
	It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice.	
	The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect 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
<b>Environmental Effect</b>	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.)	No
<b>Broadcast Facility</b>	The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 74.709, 74.793 (e), 74.793(f), 74.793(g), 74.793(h)	Yes