

## **ENGINEERING EXHIBIT**

### **Incentive Auction Channel Reassignment**

#### **Application for Modification of Digital Television Station Construction Permit** prepared for

##### **Atlanta Television Station WUPA Inc**

WUPA(DT) Atlanta, GA

Facility ID 6900

Ch. 36 1000 kW 329 m

*Atlanta Television Station WUPA Inc (“ATS”)* is the licensee of digital television station WUPA(DT), Channel 43, Facility ID 6900, Atlanta, GA. Reassignment of WUPA from Channel 43 to Channel 36 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice (“CCRPN”*, DA 17-317, released April 13, 2017). *ATS* herein proposes modification of the WUPA Channel 36 Construction Permit (“CP”, file# 0000025344). This application is intended to be filed during the second filing window.<sup>1</sup> The CP authorizes operation at 975 kW effective radiated power (“ERP”) at 329 meters antenna height above average terrain (“HAAT”). *ATS* proposes herein to increase the ERP to 1000 kW.

As with the current authorization, the proposed Channel 36 operation will employ a new broadband shared antenna system to be top-mounted on the WUPA candelabra tower in lieu of the existing Channel 43 antenna. The existing tower structure corresponds to FCC Antenna Structure Registration number 1223132. No change to the overall structure height will result.

The proposed antenna is an elliptically polarized nondirectional Dielectric model TUM-AP-O4-14/56H-R-2-T (25 percent vertical polarization). The horizontally polarized ERP is 1000 kW and the vertically polarized ERP is 250 kW.

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<sup>1</sup>Public Notice “*Incentive Auction Task Force and Media Bureau Announce the Opening of the Second Filing Window for Eligible Full Power and Class A Television Station—October 3 Through November 2, 2017*” DA 17-911, released September 20, 2017.

Figure 1 supplies a map that demonstrates compliance with §73.625(a)(1) regarding coverage of the entire principal community. The proposed facility's predicted population exceeds 95 percent of the *CCRPN* baseline facility's population.

Interference study per FCC OET Bulletin 69<sup>2</sup> shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby post-auction full service and Class A television stations and reassignments as required by §73.616. The interference study output report is provided as Table 1.

The nearest FCC monitoring station is 36.1 km distant at Powder Springs, GA. Using the FCC propagation curves, the proposed F(50,90) signal level at the monitoring station is 21.5 mV/m, which is above the 10 mV/m threshold of §73.1030(c) where further analysis may be required. Here, the proposal's signal strength at the monitoring station is the same as that from the licensed WUPA Channel 43 facility (21.5 mV/m).

Directional AM station WQXI (Fac ID 30825, 790 kHz, Atlanta, GA) is located 1.4 km from the WUPA site. The WUPA tower structure is not base insulated or detuned at an AM frequency and the proposal will not result in a change in overall tower height. Thus, pursuant to §1.30002(d), construction of the proposed WUPA facility is not considered to be a significant modification with respect to possible pattern distortion to WQXI, and *ATS* is not required to notify WQXI or install detuning apparatus to the existing tower.

The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). The site location is beyond the border areas requiring international coordination.

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<sup>2</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, 2 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**

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 considering 15 percent antenna relative field in downward elevations (pattern data shows less than 15 percent relative field at angles 10 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  $7.7 \mu\text{W}/\text{cm}^2$ , which is 1.9 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.

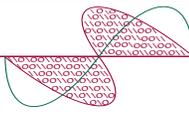
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power 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. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

#### 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.	October 16, 2017	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



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

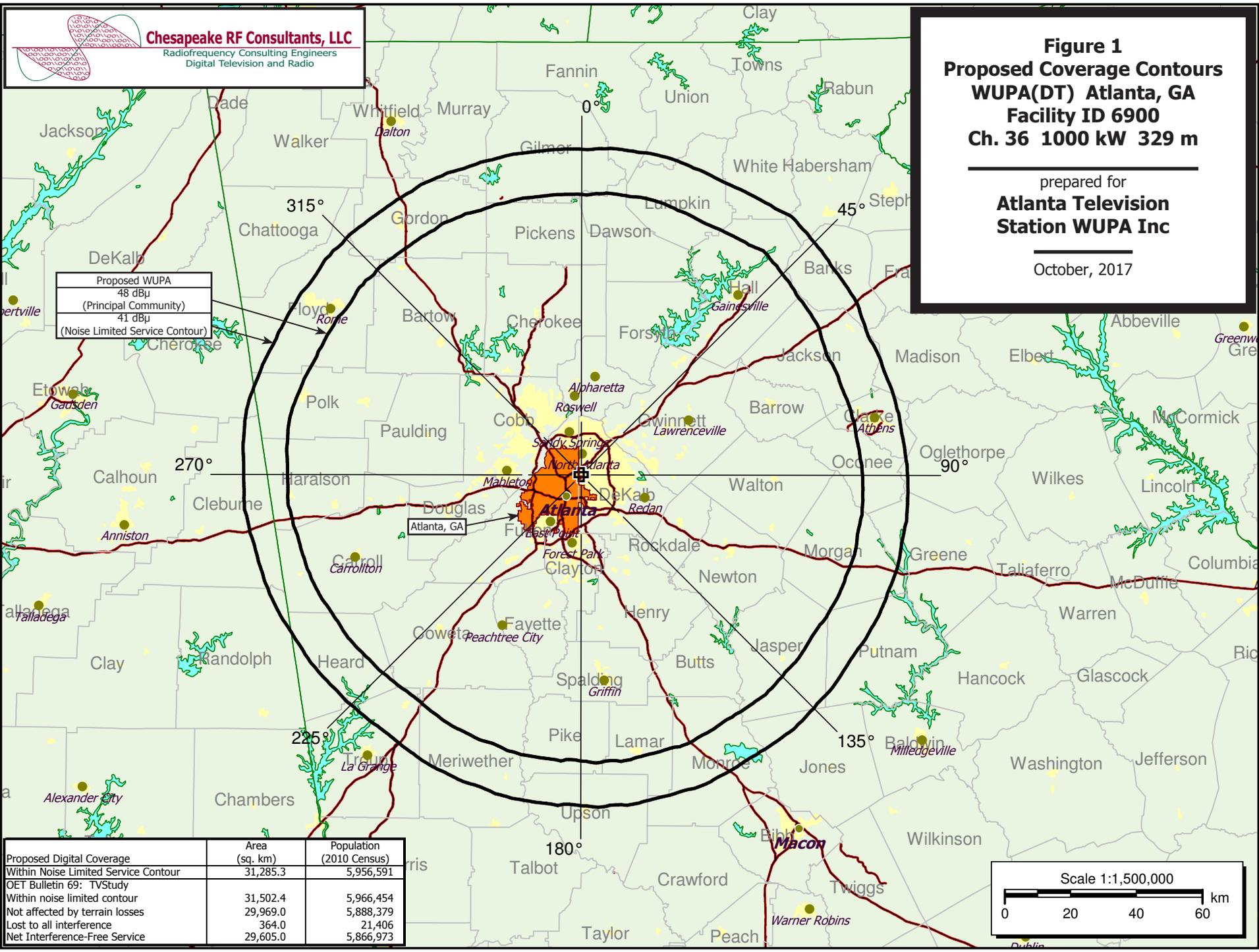
**Figure 1**  
**Proposed Coverage Contours**  
**WUPA(DT) Atlanta, GA**  
**Facility ID 6900**  
**Ch. 36 1000 kW 329 m**

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prepared for  
**Atlanta Television**  
**Station WUPA Inc**

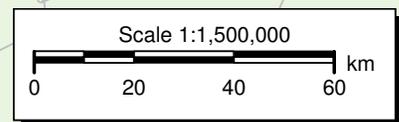
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October, 2017

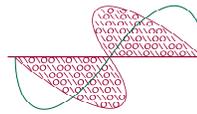


Proposed WUPA  
 48 dBμ  
 (Principal Community)  
 41 dBμ  
 (Noise Limited Service Contour)

Proposed Digital Coverage	Area (sq. km)	Population (2010 Census)
Within Noise Limited Service Contour	31,285.3	5,956,591
OET Bulletin 69: TVStudy		
Within noise limited contour	31,502.4	5,966,454
Not affected by terrain losses	29,969.0	5,888,379
Lost to all interference	364.0	21,406
Net Interference-Free Service	29,605.0	5,866,973



**Table 1 WUPA(DT) OET Bulletin 69 Interference Study**  
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tvstudy v2.2.3 (6K70F1)  
 Database: localhost, Study: WUPA 1000kW\_Prop, Model: Longley-Rice  
 Start: 2017.10.16 11:08:47

Study created: 2017.10.16 11:07:46

Study build station data: LMS TV 2017-10-07 LMSTV

Proposal: WUPA D36 DT APP ATLANTA, GA  
 File number: WUPA 1000kW Prop  
 Facility ID: 6900  
 Station data: User record  
 Record ID: 1250  
 Country: U.S.  
 Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WEAC-CD	D35	DC	CP	JACKSONVILLE, AL	BLANK0000028652	143.2 km
Yes	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	158.4
No	WMYA-TV	D35	DT	CP	ANDERSON, SC	BLANK0000027765	211.9
Yes	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000025604	177.9
Yes	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	346.9
Yes	WSES	D36	DT	CP	TUSCALOOSA, AL	BLANK0000025695	288.3
Yes	WFXG	D36	DT	CP	AUGUSTA, GA	BLANK0000025539	235.9
Yes	WUNE-TV	D36	DT	CP	LINVILLE, NC	BLANK0000025396	338.6
Yes	WTVF	D36	DT	CP	NASHVILLE, TN	BLANK0000026801	352.8
Yes	WVLR	D36	DT	CP	TAZEWELL, TN	BLANK0000025318	280.0

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:  
 WQXI 790 L DAN D ATLANTA, GA BML20061226ABR  
 WQXI 790 L DAN N ATLANTA, GA BML20061226ABR

Record parameters as studied:

Channel: D36  
 Latitude: 33 48 26.40 N (NAD83)  
 Longitude: 84 20 21.50 W  
 Height AMSL: 615.4 m  
 HAAT: 328.6 m  
 Peak ERP: 1000 kW  
 Antenna: Omnidirectional  
 Elev Pattn: Generic  
 Elec Tilt: 0.70

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	316.0 m	98.9 km
45.0	1000	325.8	99.9
90.0	1000	318.1	99.1
135.0	1000	327.2	100.0
180.0	1000	331.0	100.3
225.0	1000	315.4	98.8
270.0	1000	354.8	102.5
315.0	1000	340.7	101.2

\*\*Proposal service area extends beyond baseline plus 1.0%  
 Proposal service area population is more than 95.0% of baseline

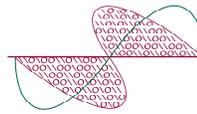
Distance to Canadian border: 886.7 km

Distance to Mexican border: 1490.8 km

\*\*Proposal is within coordination distance of FCC monitoring station  
 \*\*Proposal exceeds field strength limit at FCC monitoring station  
 Conditions at FCC monitoring station: Powder Springs GA  
 Bearing: 279.9 degrees Distance: 36.0 km  
 ERP: 1000 kW HAAT: 366.4 m Field strength: 86.5 dBu, 21.2 mV/m

Proposal is not within the West Virginia quiet zone area

**Table 1 WUPA(DT) OET Bulletin 69 Interference Study**  
(page 2 of 5)



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

Conditions at Table Mountain receiving zone:  
Bearing: 296.8 degrees Distance: 1977.2 km

Study cell size: 2.00 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 BLCDT20060627ABT LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	158.4 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	158.4
	WEAC-CD	D35	DC	CP	JACKSONVILLE, AL	BLANK0000028652	158.7
	WJTC	D35	DT	CP	PENSACOLA, FL	BLANK0000027702	327.2
	WGSA	D35	DT	LIC	BAXLEY, GA	BLCDT20071120AJC	336.3
	WMYA-TV	D35	DT	CP	ANDERSON, SC	BLANK0000027765	343.4
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000025604	307.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	20640.1	689,521	20371.2	685,358	20150.8	681,743	20150.8 681,743 0.00 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
WUPA D36 DT BL		16.0	100	16.0	100		
WUPA D36 DT APP		16.0	100		16.0	100	
WEAC-CD D35 DC CP	116.0		2,413	100.0	2,278	100.0	2,278
WJTC D35 DT CP	4.1		133	4.1	133	4.1	133
WGSA D35 DT LIC	52.4		539	52.4	539	52.4	539
WMYA-TV D35 DT CP	8.0		13	4.0	12	4.0	12
WTCI D35 DT CP	44.0		553	24.0	417	24.0	417

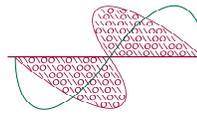
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Interference to BLANK0000025604 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000025604	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	177.9 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	177.9
	WATC-DT	D34	DT	CP	ATLANTA, GA	BLANK0000025455	147.6
	WVLT-TV	D34	DT	CP	KNOXVILLE, TN	BLANK0000025085	148.4
	WEAC-CD	D35	DC	CP	JACKSONVILLE, AL	BLANK0000028652	184.3
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	307.7
	WMYA-TV	D35	DT	CP	ANDERSON, SC	BLANK0000027765	281.4
	WBBJ-TV	D35	DT	CP	JACKSON, TN	BLANK0000027057	312.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	23962.8	1,206,569	19975.2	1,096,636	19386.7	1,073,340	19386.7 1,073,340 0.00 0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
WUPA D36 DT BL		12.0	357	4.0	102		
WUPA D36 DT APP		12.0	357		4.0	102	
WATC-DT D34 DT CP	19.9		512	8.0	257	8.0	257
WVLT-TV D34 DT CP	213.7		10,638	213.7	10,638	213.7	10,638
WEAC-CD D35 DC CP	290.5		6,876	270.6	6,452	270.6	6,452
WLTZ D35 DT LIC	31.8		1,455	19.9	1,286	19.9	1,286
WMYA-TV D35 DT CP	4.0		0	0.0	0	0.0	0
WBBJ-TV D35 DT CP	52.4		4,137	52.4	4,137	52.4	4,137

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Interference to BLCDT20090901AAL LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	346.9 km

**Table 1 WUPA(DT) OET Bulletin 69 Interference Study**  
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**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	346.9
WJTC	D35	DT	CP	PENSACOLA, FL	BLANK0000027702	177.0
WSES	D36	DT	CP	TUSCALOOSA, AL	BLANK0000025695	325.9
WUFT	D36	DT	LIC	GAINESVILLE, FL	BLEDT20040304AAF	348.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
44472.9 974,532	44171.3 971,173	43685.3 966,192	43665.3 965,892	0.05 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUPA D36 DT BL	145.6 3,020	68.7 2,460	
WUPA D36 DT APP	165.7 3,320		88.8 2,760
WJTC D35 DT CP	156.0 200	152.1 170	152.1 170
WSES D36 DT CP	237.2 1,335	156.3 745	156.3 745
WUFT D36 DT LIC	28.0 1,016	28.0 1,016	28.0 1,016

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Interference to BLANK0000025695 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSES	D36	DT	CP	TUSCALOOSA, AL	BLANK0000025695	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	288.3 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	288.3
	WEAC-CD	D35	DC	CP	JACKSONVILLE, AL	BLANK0000028652	145.2
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDDT20090901AAL	325.9
	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	228.5
	WLOO	D36	DT	CP	VICKSBURG, MS	BLANK0000025168	309.5
	WTVF	D36	DT	CP	NASHVILLE, TN	BLANK0000026801	315.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35561.8 1,546,768	34777.1 1,510,818	33860.4 1,478,409	33836.4 1,477,934	0.07 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUPA D36 DT BL	351.9 14,235	115.9 5,672	
WUPA D36 DT APP	375.9 14,731		139.9 6,147
WEAC-CD D35 DC CP	367.9 16,059	192.0 9,814	187.9 9,752
WTVY D36 DT LIC	296.4 6,990	192.6 3,766	196.6 3,807
WMAV-TV D36 DT LIC	72.2 2,012	44.1 965	44.1 965
WLOO D36 DT CP	52.1 1,160	20.1 113	20.1 113
WTVF D36 DT CP	104.1 4,492	72.0 1,551	72.0 1,551

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Interference to BLANK0000025539 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXG	D36	DT	CP	AUGUSTA, GA	BLANK0000025539	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	235.9 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	235.9
	WUNE-TV	D36	DT	CP	LINVILLE, NC	BLANK0000025396	294.2
	WFXB	D36	DT	CP	MYRTLE BEACH, SC	BLANK0000027052	259.5

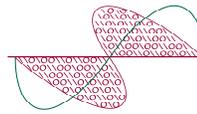
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16481.5 677,294	16445.5 677,097	16153.0 673,956	16117.0 673,794	0.22 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
WUPA D36 DT BL	212.2 967	196.2 815	
WUPA D36 DT APP	248.3 1,129		232.3 977
WUNE-TV D36 DT CP	24.0 526	0.0 0	0.0 0
WFXB D36 DT CP	96.2 2,326	64.2 1,770	64.2 1,770

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Interference to BLANK0000025396 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUNE-TV	D36	DT	CP	LINVILLE, NC	BLANK0000025396	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	338.6 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	338.6
	WFMY-TV	D35	DT	CP	GREENSBORO, NC	BLANK0000028086	181.4
	WFXG	D36	DT	CP	AUGUSTA, GA	BLANK0000025539	294.2
	WKAS	D36	DT	CP	ASHLAND, KY	BLANK0000025282	275.3
	WFXB	D36	DT	CP	MYRTLE BEACH, SC	BLANK0000027052	319.1

**Table 1 WUPA(DT) OET Bulletin 69 Interference Study**  
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	WVLR	D36	DT	CP	TAZEWELL, TN	BLANK0000025318	161.7		
	WFXR	D36	DT	CP	ROANOKE, VA	BLANK0000027724	196.3		
	Service area	Terrain-limited			IX-free, before		IX-free, after		Percent New IX
27444.5	1,963,866	22506.3	1,535,805	21510.8	1,502,748	21510.8	1,502,748	0.00	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after			
WUPA D36 DT BL		36.3		2,233	12.1	845			
WUPA D36 DT APP		36.3		2,233			12.1	845	
WFMY-TV D35 DT CP		188.3		7,581	144.3	6,594	144.3	6,594	
WFXG D36 DT CP		12.1		259	8.1	100	8.1	100	
WKAS D36 DT CP		4.0		0	0.0	0	0.0	0	
WFXB D36 DT CP		168.8		7,857	72.1	4,389	72.1	4,389	
WVLR D36 DT CP		156.0		4,421	88.0	2,833	88.0	2,833	
WFXR D36 DT CP		650.9		17,750	478.1	12,135	478.1	12,135	

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Interference to BLANK0000026801 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTVF	D36	DT	CP	NASHVILLE, TN	BLANK0000026801	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	352.8 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	352.8
	WSES	D36	DT	CP	TUSCALOOSA, AL	BLANK0000025695	315.4
	WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	248.4
	KBSI	D36	DT	CP	CAPE GIRARDEAU, MO	BLANK0000025127	277.3
	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	344.0
	WVLR	D36	DT	CP	TAZEWELL, TN	BLANK0000025318	283.1

	Service area	Terrain-limited			IX-free, before		IX-free, after		Percent New IX
36441.7	2,365,383	35317.0	2,348,542	34532.3	2,332,387	34528.3	2,332,283	0.01	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after			
WUPA D36 DT BL		28.2		631	16.2	125			
WUPA D36 DT APP		32.3		735			20.2	229	
WSES D36 DT CP		4.0		55	0.0	0	0.0	0	
WAVE D36 DT CP		300.0		3,899	192.0	2,711	192.0	2,711	
KBSI D36 DT CP		484.3		10,721	424.3	10,158	424.3	10,158	
WMAV-TV D36 DT LIC		12.1		96	4.0	10	4.0	10	
WVLR D36 DT CP		80.2		2,533	28.1	1,452	28.1	1,452	

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Interference to BLANK0000025318 CP, scenario 1

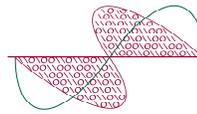
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVLR	D36	DT	CP	TAZEWELL, TN	BLANK0000025318	
Undesireds:	WUPA	D36	DT	BL	ATLANTA, GA	DTVBL6900	280.0 km
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	280.0
	WKAS	D36	DT	CP	ASHLAND, KY	BLANK0000025282	260.6
	WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	304.8
	WUNE-TV	D36	DT	CP	LINVILLE, NC	BLANK0000025396	161.7
	WTVF	D36	DT	CP	NASHVILLE, TN	BLANK0000026801	283.1
	WFXR	D36	DT	CP	ROANOKE, VA	BLANK0000027724	326.6

	Service area	Terrain-limited			IX-free, before		IX-free, after		Percent New IX
27295.1	1,412,728	22820.1	1,300,554	22412.1	1,292,575	22412.1	1,292,575	0.00	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after			
WUPA D36 DT BL		24.2		0	12.1	0			
WUPA D36 DT APP		24.2		0			12.1	0	
WKAS D36 DT CP		8.0		0	4.0	0	4.0	0	
WAVE D36 DT CP		175.7		3,102	83.9	1,411	83.9	1,411	
WUNE-TV D36 DT CP		44.2		336	40.1	336	40.1	336	
WTVF D36 DT CP		243.9		5,603	156.0	3,912	156.0	3,912	
WFXR D36 DT CP		12.0		629	12.0	629	12.0	629	

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Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUPA	D36	DT	APP	ATLANTA, GA	WUPA 1000kW Prop	

**Table 1 WUPA(DT) OET Bulletin 69 Interference Study**  
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Undesireds:	Call Sign	Class	Service	City	Blanking Code	Distance (km)
	WEAC-CD	D35	DC	JACKSONVILLE, AL	BLANK0000028652	143.2
	WTCI	D35	DT	CHATTANOOGA, TN	BLANK0000025604	177.9
	WTVY	D36	DT	DOETHAN, AL	BLCDT20090901AAL	346.9
	WSES	D36	DT	TUSCALOOSA, AL	BLANK0000025695	288.3
	WFXG	D36	DT	AUGUSTA, GA	BLANK0000025539	235.9
	WUNE-TV	D36	DT	LINVILLE, NC	BLANK0000025396	338.6
	WTVF	D36	DT	NASHVILLE, TN	BLANK0000026801	352.8
	WVLR	D36	DT	TAZEWELL, TN	BLANK0000025318	280.0

Service area	Terrain-limited	IX-free	Percent IX
31502.4	5,966,454	29969.0	5,888,379
29605.0	5,866,973	1.21	0.36

Undesired	Total IX	Unique IX	Prcnt Unique IX
WEAC-CD D35 DC CP	28.2	1,448	20.1
WTCI D35 DT CP	4.0	15	4.0
WTVY D36 DT LIC	108.0	6,801	92.0
WSES D36 DT CP	92.2	5,034	32.1
WFXG D36 DT CP	48.0	1,010	40.0
WUNE-TV D36 DT CP	16.0	444	8.0
WTVF D36 DT CP	71.9	2,885	31.9
WVLR D36 DT CP	95.8	10,330	59.8

**Channel and Facility Information**

Section	Question	Response
<b>Proposed Community of License</b>	Facility ID	6900
	State	Georgia
	City	ATLANTA
	DTV Channel	36
<b>Facility Type</b>	Facility Type	Commercial
	Station Type	Main
<b>Zone</b>	Zone	2

**Antenna Location Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1223132
<b>Coordinates (NAD83)</b>	Latitude	33° 48' 26.4" N+
	Longitude	084° 20' 21.5" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	360.3 meters
	Support Structure Height	321.9 meters
	Ground Elevation (AMSL)	264.3 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	351.1 meters
	Height of Radiation Center Above Average Terrain	328.6 meters
	Height of Radiation Center Above Mean Sea Level	615.4 meters
	Effective Radiated Power	1000 kW

**Antenna  
Technical Data**

Section	Question	Response
<b>Antenna Type</b>	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
<b>Antenna Manufacturer and Model</b>	Manufacturer:	DIE
	Model	TUM-AP-O4-14/56H-2-T
	Rotation	
	Electrical Beam Tilt	0.70
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
<b>DTV and DTS: Elevation Pattern</b>	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	

**Construction  
Permit  
Certifications**

Section	Question	Response
<p><b>Post-Incentive Auction Expedited Processing</b></p>	<p>It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.</p>	<p>Yes</p>
	<p>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.</p>	<p>No</p>
	<p>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.</p>	<p>Yes</p>
	<p>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.</p>	<p>Yes</p>
<p><b>Environmental Effect</b></p>	<p>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.)</p>	<p>No</p>
<p><b>Broadcast Facility</b></p>	<p>The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C.F.R. Sections 73.616, 73.622(j), 73.623(e), 73.625, 73.1030, and 73.1125.</p>	<p>Yes</p>