

## **ENGINEERING EXHIBIT**

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

**Gray Television Licensee, LLC**  
W36EO-D La Grange, GA  
Facility ID 182094  
Ch. 36 15 kW Nondirectional

*Gray Television Licensee, LLC* (“Gray”) is the licensee of digital Low Power Television station W36EO-D, Channel 36, Facility ID 182094, La Grange GA. W36EO-D is licensed to operate at 0.2 kW effective radiated power (“ERP”) with a directional antenna (file# 0000179500, granted February 22, 2022). A minor modification Construction Permit (“CP” file# 0000205633) authorizes W36EO-D to relocate 16.1 km (10.0 miles) and utilize a nondirectional antenna at 15 kW ERP and 76.2 meters antenna height AGL. It has been determined that other appurtenances on the tower obstruct the authorized antenna height. *Gray* herein seeks a modification of the CP to specify a 5.8 meter increase in the authorized antenna height, to 82.0 meters AGL.

As with the current CP, the proposed facility will employ a new antenna to be side-mounted on the tower structure associated with FCC Antenna Structure Registration number 1219605. No change to the overall structure height is proposed.

The proposed antenna is a Dielectric model DLP-12B having horizontal polarization. The proposed ERP is 15 kW using a “full service” out of channel emission mask. Figure 1 depicts the 51 dBμ coverage contour of the proposed facility along with that of the licensed facility, demonstrating compliance with §73.3572 for a minor change.

Interference study per OET Bulletin 69<sup>1</sup> shows that the proposal complies with the FCC’s interference protection requirements toward all digital television, television translator, LPTV, and

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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”). This analysis employed the FCC’s current “TVStudy” software with the default application processing template settings, 1 km cell size, and 1.0 km terrain increment.

Class A stations. The results, summarized in Table 1, show that any new interference does not exceed the FCC's interference limits (0.5 percent to full power and Class A stations, and 2.0 percent to secondary stations) to any facility.

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

The proposed facility 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 20 percent antenna relative field in downward elevations (pattern data shows 20 percent or less relative field at angles 10 to 90 degrees below the antenna), the calculated power density attributable to the proposed facility at locations near the transmitter site at a height of two meters above ground level is  $3.1 \mu\text{W}/\text{cm}^2$ , which is 0.8 percent of the general population / uncontrolled maximum permissible 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	Coverage Contour Comparison
Table 1	TVStudy Analysis of Proposal
Form 2100	Saved Version of Engineering Sections of FCC Form at Time of Upload

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

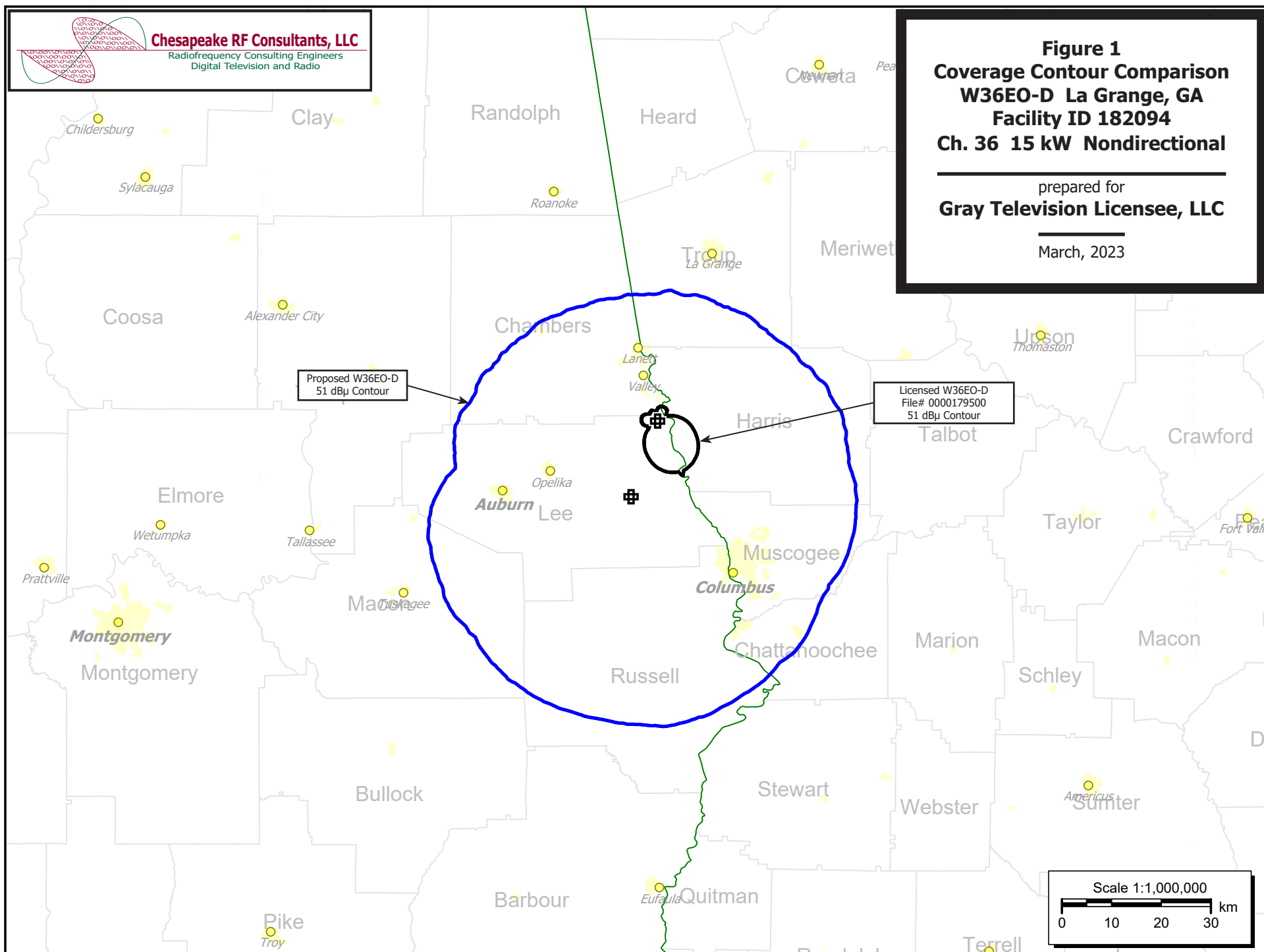
Joseph M. Davis, P.E.	March 31, 2023	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600

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Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.



prepared for  
**Gray Television Licensee, LLC**  
March, 2023



# **Table 1 W36EO-D TVStudy Analysis of Proposal** (page 1 of 7)



tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: W36EO-D CP-Mod\_prop, Model: Longley-Rice  
Start: 2023.03.31 15:28:56

Study created: 2023.03.31 15:28:56

Study build station data: LMS TV 2023-03-31

Proposal: W36EO-D D36 LD APP LA GRANGE, GA  
File number: W36EO-D CP-Mod prop  
Facility ID: 182094  
Station data: User record  
Record ID: 4937  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

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	DWKNI-LP	D35-	LD	APP	ANDALUSIA, AL	BLANK0000054917	180.0 km
No	WOTM-LD	D35	LD	LIC	Birmingham, AL	BLANK0000184910	162.2
No	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	129.6
No	WUDC-LD	D35	LD	CP	MONTGOMERY, AL	BNPDTL20091026ABC	95.4
No	WUDC-LD	D35	LD	LIC	MONTGOMERY, AL	BLANK0000199477	95.4
No	K350X-D	D35	LD	LIC	SELMA, AL	BLANK0000189526	168.3
No	K350X-D	D35	LD	CP	SELMA, AL	BLANK0000193252	178.7
No	WUVG-DT	D35	LD	LIC	ATHENS, GA	BLANK0000081844	227.3
No	WDTA-LD	D35	LD	LIC	ATLANTA, GA	BLANK0000126643	149.7
Yes	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	33.8
No	W35BB-D	D35	LD	LIC	DUBLIN, GA	BLDTL20141230AAP	219.0
No	W35DA-D	D35	LD	CP	MACON, GA	BLANK0000197147	146.0
No	W35DA-D	D35	LD	LIC	MACON, GA	BLANK0000198001	146.0
Yes	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	193.3
No	WGOX-LD	D36	LD	LIC	Mobile, AL	BLANK0000169489	328.1
Yes	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057	116.4
Yes	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	229.3
No	WUFT	D36	DT	LIC	GAINESVILLE, FL	BLEDT20040304AAF	417.8
No	W36EA-D	D36	LD	LIC	TALLAHASSEE, FL	BLANK0000179416	259.0
No	WGCW-LD	D36	LD	LIC	ALBANY, GA	BLANK0000075337	145.5
Yes	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	156.6
No	WFXG	D36	DT	LIC	AUGUSTA, GA	BLANK0000081277	327.1
No	WGCB-LD	D36-	LD	LIC	HINESVILLE-RICHMOND, GA	BLANK0000080179	366.8
No	W36FI-D	D36	LD	LIC	VALDOSTA, GA	BLANK0000195928	247.7
No	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	457.8
No	WASV-LD	D36	LD	LIC	ASHEVILLE, NC	BLANK0000108621	406.0
No	WCNT-LP	N36-	TX	LIC	CHATTANOOGA, TN	BLTTL20050908AAJ	312.5
No	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	432.9
No	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	431.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36  
Mask: Full Service  
Latitude: 32 35 55.40 N (NAD83)  
Longitude: 85 12 19.70 W  
Height AMSL: 278.9 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 1.00

50.9 dBu contour:  
Azimuth ERP HAAT Distance

**Table 1 W36EO-D TVStudy Analysis of Proposal**  
(page 2 of 7)



0.0 deg	15.0 kW	81.3 m	40.4 km
45.0	15.0	103.6	43.3
90.0	15.0	127.4	45.3
135.0	15.0	124.5	45.1
180.0	15.0	134.2	45.8
225.0	15.0	98.9	42.8
270.0	15.0	72.8	39.2
315.0	15.0	66.6	38.2

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 101 m

Distance to Canadian border: 1033.4 km

Distance to Mexican border: 1352.3 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 17.6 degrees Distance: 147.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 300.8 degrees Distance: 1971.3 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 BLCDT20060627ABT LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	33.8 km
	WSST-TV	D34	DT	LIC	CORDELE, GA	BLANK0000064103	119.5
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	158.7
	WJTC	D35	DT	LIC	PENSACOLA, FL	BLANK0000121002	327.2
	WSCG	D35	DT	LIC	BAXLEY, GA	BLCDT20071120AJC	336.3
	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	224.0
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000190291	343.4
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	307.7
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	158.4
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	20611.7	690,243	20353.4	687,424	20092.4	682,125	20079.4 681,452 0.06 0.10
Undesired				Total IX	Unique IX, before		Unique IX, after
W36EO-D D36 LD APP				13.0	673		13.0 673
WSST-TV D34 DT LIC				1.0	0		0.0 0
WEAC-CD D35 DC LIC				107.7	3,613	79.8 2,411	79.8 2,411
WJTC D35 DT LIC				29.2	316	29.2 316	29.2 316
WSCG D35 DT LIC				55.2	682	34.2 616	34.2 616
WMYA-TV D35 DT LIC				57.0	745	13.0 156	13.0 156
WTCI D35 DT CP				62.8	1,543	17.0 79	17.0 79
WUPA D36 DT LIC				21.9	191	17.9 191	17.9 191

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Interference to BLCDT20060627ABT LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	33.8 km
	WSST-TV	D34	DT	LIC	CORDELE, GA	BLANK0000064103	119.5
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	158.7
	WJTC	D35	DT	LIC	PENSACOLA, FL	BLANK0000121002	327.2
	WSCG	D35	DT	LIC	BAXLEY, GA	BLCDT20071120AJC	336.3
	WBVJ-CD	D35+	DC	LIC	VALDOSTA, GA	BLANK0000004708	224.0

**Table 1 W36EO-D TVStudy Analysis of Proposal**  
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WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000190291	343.4
WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	307.7
WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	158.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20611.7 690,243	20353.4 687,424	20092.4 682,125	20079.4 681,452	0.06 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EO-D D36 LD APP	13.0 673	13.0 673	
WSST-TV D34 DT LIC	1.0 0	0.0 0	
WEAC-CD D35 DC LIC	107.7 3,613	79.8 2,411	79.8 2,411
WJTC D35 DT LIC	29.2 316	29.2 316	
WSCG D35 DT LIC	55.2 682	34.2 616	34.2 616
WMYA-TV D35 DT LIC	57.0 745	13.0 156	13.0 156
WTCI D35 DT LIC	62.8 1,543	17.0 79	17.0 79
WUPA D36 DT LIC	21.9 191	17.9 191	17.9 191

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Interference to BLCDT20060627ABT LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	33.8 km
	WSST-TV	D34	DT	LIC	CORDELE, GA	BLANK0000064103	119.5
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	158.7
	WJTC	D35	DT	LIC	PENSACOLA, FL	BLANK0000121002	327.2
	WSCG	D35	DT	LIC	BAXLEY, GA	BLCDT20071120AJC	336.3
	WBVJ-CD	D35+	DC	CP	VALDOSTA, GA	BLANK0000035757	224.0
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000190291	343.4
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	307.7
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	158.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20611.7 690,243	20353.4 687,424	20092.4 682,125	20079.4 681,452	0.06 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EO-D D36 LD APP	13.0 673	13.0 673	
WSST-TV D34 DT LIC	1.0 0	0.0 0	
WEAC-CD D35 DC LIC	107.7 3,613	79.8 2,411	79.8 2,411
WJTC D35 DT LIC	29.2 316	29.2 316	
WSCG D35 DT LIC	55.2 682	33.2 593	33.2 593
WBVJ-CD D35+ DC CP	1.0 23	0.0 0	0.0 0
WMYA-TV D35 DT LIC	57.0 745	13.0 156	13.0 156
WTCI D35 DT CP	62.8 1,543	17.0 79	17.0 79
WUPA D36 DT LIC	21.9 191	17.9 191	17.9 191

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Interference to BLCDT20060627ABT LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	33.8 km
	WSST-TV	D34	DT	LIC	CORDELE, GA	BLANK0000064103	119.5
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	158.7
	WJTC	D35	DT	LIC	PENSACOLA, FL	BLANK0000121002	327.2
	WSCG	D35	DT	LIC	BAXLEY, GA	BLCDT20071120AJC	336.3
	WBVJ-CD	D35+	DC	CP	VALDOSTA, GA	BLANK0000035757	224.0
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000190291	343.4
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	307.7
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	158.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20611.7 690,243	20353.4 687,424	20092.4 682,125	20079.4 681,452	0.06 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EO-D D36 LD APP	13.0 673	13.0 673	
WSST-TV D34 DT LIC	1.0 0	0.0 0	
WEAC-CD D35 DC LIC	107.7 3,613	79.8 2,411	79.8 2,411
WJTC D35 DT LIC	29.2 316	29.2 316	
WSCG D35 DT LIC	55.2 682	33.2 593	33.2 593
WBVJ-CD D35+ DC CP	1.0 23	0.0 0	0.0 0

**Table 1 W36EO-D TVStudy Analysis of Proposal**  
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WMYA-TV D35 DT LIC	57.0	745	13.0	156	13.0	156
WTCI D35 DT LIC	62.8	1,543	17.0	79	17.0	79
WUPA D36 DT LIC	21.9	191	17.9	191	17.9	191

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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:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	193.3 km
	WJTC	D35	DT	LIC	PENSACOLA, FL	BLANK0000121002	177.0
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	325.9
	WUFT	D36	DT	LIC	GAINESVILLE, FL	BLCDT20040304AAF	348.2
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	346.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
44438.8 973,722		44099.0 972,550		43376.5 965,465		43191.5 963,656	0.43 0.19
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EO-D D36 LD APP		340.6 5,014				184.9 1,809	
WJTC D35 DT LIC		190.4 1,530		184.3 1,500		184.3 1,500	
WSES D36 DT LIC		437.4 3,363		358.5 1,185		318.1 1,037	
WUFT D36 DT LIC		24.0 787		24.0 787		24.0 787	
WUPA D36 DT LIC		149.6 3,583		76.9 1,435		21.2 412	

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Interference to BLANK0000098057 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	116.4 km
	WUDC-LD	D35	LD	CP	MONTGOMERY, AL	BNPDTL20091026ABC	22.0
	K35OX-D	D35	LD	LIC	SELMA, AL	BLANK0000189526	52.4
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	179.1
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	150.2
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	248.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4628.8 348,917		4551.5 348,233		4269.5 344,517		4263.4 344,499	0.14 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EO-D D36 LD APP		14.1 163				6.0 18	
WUDC-LD D35 LD CP		2.0 104		0.0 0		0.0 0	
K35OX-D D35 LD LIC		28.1 101		15.1 17		15.1 17	
WTVY D36 DT LIC		128.4 2,550		63.2 1,152		63.2 1,152	
WSES D36 DT LIC		193.8 2,327		130.6 1,140		130.6 1,140	
WUPA D36 DT LIC		9.0 145		0.0 0		0.0 0	

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Interference to BLANK0000098057 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	116.4 km
	WUDC-LD	D35	LD	CP	MONTGOMERY, AL	BNPDTL20091026ABC	22.0
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	179.1
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	150.2
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	248.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4628.8 348,917		4551.5 348,233		4284.5 344,534		4278.5 344,516	0.14 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EO-D D36 LD APP		14.1 163				6.0 18	
WUDC-LD D35 LD CP		2.0 104		0.0 0		0.0 0	
WTVY D36 DT LIC		128.4 2,550		64.2 1,227		64.2 1,227	
WSES D36 DT LIC		193.8 2,327		137.7 1,149		137.7 1,149	
WUPA D36 DT LIC		9.0 145		0.0 0		0.0 0	

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**Table 1 W36EO-D TVStudy Analysis of Proposal**  
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Interference to BLANK0000098057 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057			
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	116.4 km		
	WUDC-LD	D35	LD	LIC	MONTGOMERY, AL	BLANK0000199477	22.0		
	K35OX-D	D35	LD	LIC	SELMA, AL	BLANK0000189526	52.4		
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	179.1		
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	150.2		
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	248.2		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
4628.8	348,917	4551.5	348,233	4269.5	344,517	4263.4	344,499	0.14	0.01
Undesired				Total IX	Unique IX, before		Unique IX, after		
W36EO-D	D36	LD	APP	14.1	163	6.0	18		
WUDC-LD	D35	LD	LIC	2.0	104	0.0	0		
K35OX-D	D35	LD	LIC	28.1	101	15.1	17		
WTVY	D36	DT	LIC	128.4	2,550	63.2	1,152		
WSES	D36	DT	LIC	193.8	2,327	130.6	1,140		
WUPA	D36	DT	LIC	9.0	145	0.0	0		

Interference to BLANK0000098057 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057			
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	116.4 km		
	WUDC-LD	D35	LD	LIC	MONTGOMERY, AL	BLANK0000199477	22.0		
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	179.1		
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	150.2		
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	248.2		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
4628.8	348,917	4551.5	348,233	4284.5	344,534	4278.5	344,516	0.14	0.01
Undesired				Total IX	Unique IX, before		Unique IX, after		
W36EO-D	D36	LD	APP	14.1	163	6.0	18		
WUDC-LD	D35	LD	LIC	2.0	104	0.0	0		
WTVY	D36	DT	LIC	128.4	2,550	64.2	1,227		
WSES	D36	DT	LIC	193.8	2,327	137.7	1,149		
WUPA	D36	DT	LIC	9.0	145	0.0	0		

Interference to BLANK0000191494 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494			
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	229.3 km		
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	145.2		
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	325.9		
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	288.3		
	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	228.5		
	WLOO	D36	DT	LIC	VICKSBURG, MS	BLANK0000063959	309.5		
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	315.4		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
46526.7	1,828,545	45188.0	1,796,732	42941.6	1,708,002	42940.6	1,708,002	0.00	0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
W36EO-D	D36	LD	APP	20.9	1,253		1.0	0	
WEAC-CD	D35	DC	LIC	679.3	34,840	403.7	19,282	403.7	19,282
WTVY	D36	DT	LIC	330.2	7,403	252.4	5,064	247.4	5,064
WUPA	D36	DT	LIC	656.3	26,857	228.4	7,960	224.4	7,872
WMAV-TV	D36	DT	LIC	142.7	3,435	76.4	1,891	76.4	1,891
WLOO	D36	DT	LIC	46.9	648	23.9	135	23.9	135
WTVF	D36	DT	LIC	921.1	37,576	769.4	34,352	769.4	34,352

Interference to BLANK0000084466 LIC scenario 1



**Table 1 W36EO-D TVStudy Analysis of Proposal**  
(page 6 of 7)



Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	156.6 km
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	143.2
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	177.9
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	346.9
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	288.3
	WFXG	D36	DT	LIC	AUGUSTA, GA	BLANK0000081277	235.9
	WUNE-TV	D36	DT	LIC	LINVILLE, NC	BLANK0000111606	338.6
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	352.8
	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	280.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31487.3 5,964,791		29994.7 5,896,236		29127.8 5,855,463		28996.3 5,852,187	0.45 0.06

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EO-D D36 LD APP	232.1 5,362	131.5 3,276	
WEAC-CD D35 DC LIC	39.6 515	19.8 338	18.8 338
WTCI D35 DT CP	1.0 12	1.0 12	1.0 12
WTVY D36 DT LIC	105.6 4,161	47.8 2,073	18.0 1,568
WSES D36 DT LIC	312.1 18,607	201.4 11,676	187.5 11,542
WFXG D36 DT LIC	394.8 12,652	302.0 8,515	296.0 8,327
WUNE-TV D36 DT LIC	75.9 3,524	15.0 903	14.0 875
WTVF D36 DT LIC	65.1 5,028	15.0 1,732	14.0 1,732
WVLR D36 DT LIC	114.5 10,468	53.3 4,436	53.3 4,436

Interference to BLANK0000084466 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	
Undesireds:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	156.6 km
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	143.2
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	177.9
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	346.9
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	288.3
	WFXG	D36	DT	LIC	AUGUSTA, GA	BLANK0000081277	235.9
	WUNE-TV	D36	DT	LIC	LINVILLE, NC	BLANK0000111606	338.6
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	352.8
	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	280.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31487.3 5,964,791		29994.7 5,896,236		29127.8 5,855,463		28996.3 5,852,187	0.45 0.06

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EO-D D36 LD APP	232.1 5,362	131.5 3,276	
WEAC-CD D35 DC LIC	39.6 515	19.8 338	18.8 338
WTCI D35 DT LIC	1.0 12	1.0 12	1.0 12
WTVY D36 DT LIC	105.6 4,161	47.8 2,073	18.0 1,568
WSES D36 DT LIC	312.1 18,607	201.4 11,676	187.5 11,542
WFXG D36 DT LIC	394.8 12,652	302.0 8,515	296.0 8,327
WUNE-TV D36 DT LIC	75.9 3,524	15.0 903	14.0 875
WTVF D36 DT LIC	65.1 5,028	15.0 1,732	14.0 1,732
WVLR D36 DT LIC	114.5 10,468	53.3 4,436	53.3 4,436

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W36EO-D	D36	LD	APP	LA GRANGE, GA	W36EO-D CP-Mod prop	
Undesireds:	WUDC-LD	D35	LD	CP	MONTGOMERY, AL	BNPDTL20091026ABC	95.4 km
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	33.8
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	193.3
	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057	116.4
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000191494	229.3
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	156.6
Service area		Terrain-limited		IX-free		Percent IX	
5727.5	453,471	5643.3	450,925	5097.1	445,200	9.68	1.27

**Table 1 W36EO-D TVStudy Analysis of Proposal**  
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Undesired		Total IX		Unique IX	Prcnt	Unique IX
WLTZ D35 DT LIC	125.6	1,806	81.4	744	1.44	0.16
WTVY D36 DT LIC	175.5	2,856	51.1	1,026	0.90	0.23
WDSF-LD D36 LD LIC	23.1	130	0.0	0	0.00	0.00
WSES D36 DT LIC	57.2	1,124	2.0	0	0.04	0.00
WUFA D36 DT LIC	380.6	2,876	251.2	1,381	4.45	0.31

**Channel and  
Facility  
Information**

Section	Question	Response
Facility ID	182094	
State	Georgia	
City	LA GRANGE	
LPD Channel	36	

Antenna Location  
Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1219605
Coordinates (NAD83)	Latitude	32° 35' 55.4" N+
	Longitude	085° 12' 19.7" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	106.4 meters
	Support Structure Height	100.6 meters
	Ground Elevation (AMSL)	196.9 meters
Antenna Data	Height of Radiation Center Above Ground Level	82.0 meters
	Height of Radiation Center Above Mean Sea Level	278.9 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:	Dielectric
	Model	DLP-12B
	Rotation	
	Electrical Beam Tilt	1.0
	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:	Full Service