

ENGINEERING EXHIBIT

Digital Low Power Television Station Application for Minor Modification of Licensed Facility prepared for

Gray Television Licensee, LLC
WJEA-LD Augusta, GA
Facility ID 185526
Ch. 17 15 kW Nondirectional

Gray Television Licensee, LLC (“Gray”) is the licensee of digital Low Power Television station WJEA-LD, Channel 17, Facility ID 185526, Augusta GA. WJEA-LD is licensed to operate at 0.2 kW effective radiated power (“ERP”) with a directional antenna (file# 0000179280). *Gray* herein seeks a minor modification Construction Permit to relocate WJEA-LD and to utilize a nondirectional antenna at increased ERP and antenna height.

As proposed herein, WJEA-LD will utilize the tower structure associated with FCC Antenna Structure Registration number 1059411, located 24.7 km (15.4 miles) from the licensed WJEA-LD site. The proposed WJEA-LD facility will utilize a new antenna to be side-mounted on the tower. No change to the overall structure height will result.

The proposed antenna is a nondirectional Dielectric model TLP-16A/VP-R having elliptical polarization. The proposed ERP is 15 kW horizontally polarized and 4.5 kW vertically polarized using a “full service” out of channel emission mask.

Figure 1 depicts the coverage contour of the proposed facility as well as that of the licensed facility, demonstrating compliance with §73.3572 for a minor change. Since the proposed 51 dBμ contour encompasses that of the licensed facility, no service loss area will be created. Considerable service improvement will result as the population within the 51 dBμ contour increases to 601,355 persons (2010 census), which is 1602 percent of the 37,546 persons within the licensed WJEA-LD facility’s 51 dBμ contour.

Interference study per OET Bulletin 69¹ shows that the proposal complies with the FCC's interference protection requirements toward all digital television, television translator, LPTV, and 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 25 percent antenna relative field in downward elevations (pattern data shows 25 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 $0.2 \mu\text{W}/\text{cm}^2$, which is 0.1 percent of the general population / uncontrolled maximum permissible 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.

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.

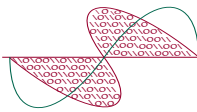
¹FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 1 km cell size, and 1.0 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.

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.	April 26, 2022	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



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

Figure 1
Coverage Contour Comparison
WJEA-LD Augusta, GA
Facility ID 185526
Ch. 17 15 kW Nondirectional

prepared for
Gray Television Licensee, LLC

April, 2022

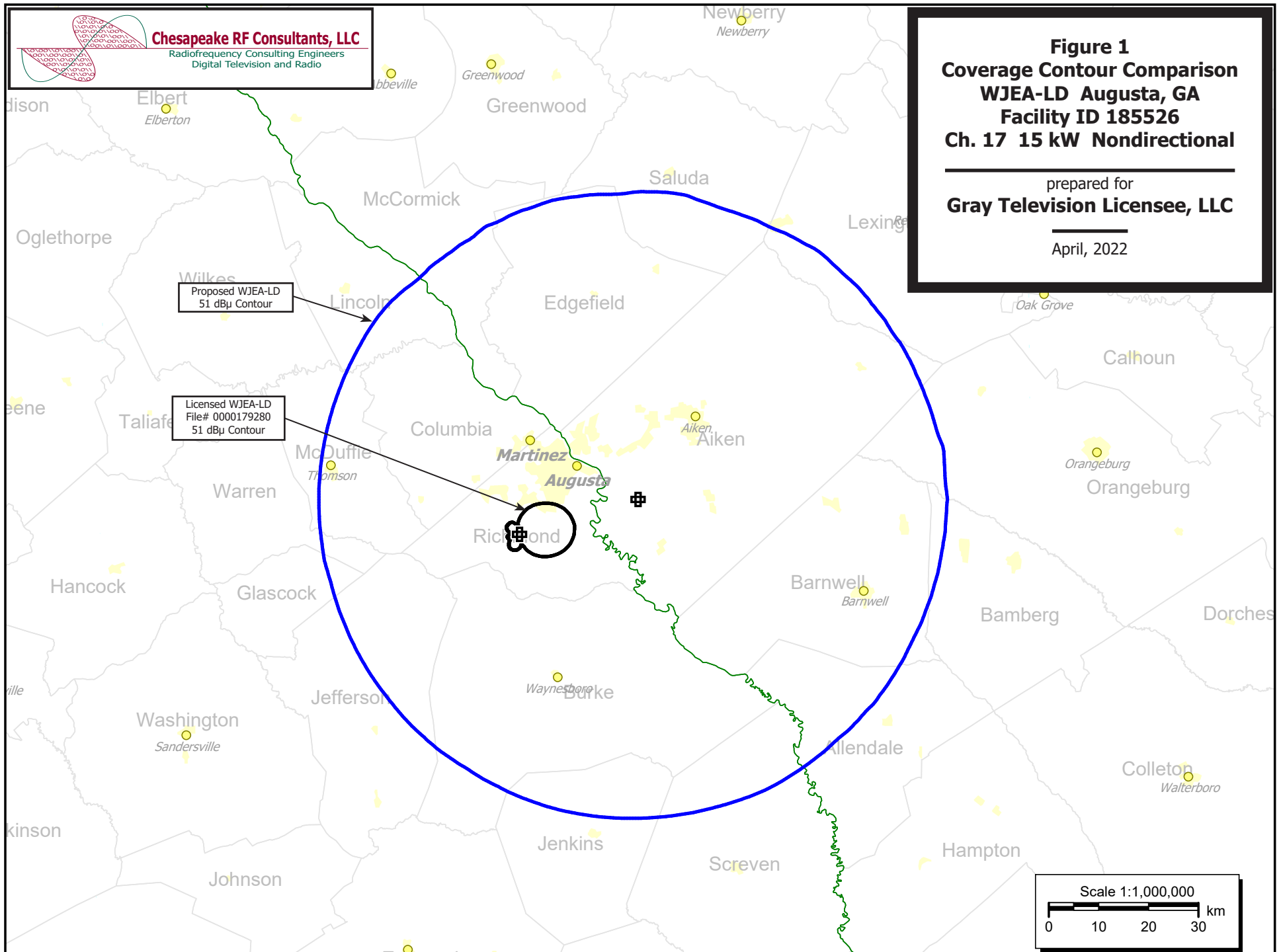


Table 1 WJEA-LD TVStudy Analysis of Proposal (page 1 of 6)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WJEA-LD 1059411 prop, Model: Longley-Rice
Start: 2022.04.26 10:03:01

Study created: 2022.04.26 10:03:01

Study build station data: LMS TV 2022-04-25

Proposal: WJEA-LD D17 LD APP AUGUSTA, GA
File number: WJEA-LD 1059411 prop
Facility ID: 185526
Station data: User record
Record ID: 4367
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	W16EL-D	D16	LD	CP	AUGUSTA, GA	BLANK0000155482	39.9 km
Yes	W16EE-D	D16	LD	APP	AUGUSTA, GA	BLANK0000186170	46.9
Yes	W16EE-D	D16	LD	LIC	AUGUSTA, GA	BLANK0000179225	46.9
No	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	181.5
No	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	277.7
Yes	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	158.6
No	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	216.7
No	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK0000093423	177.9
No	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425	456.2
Yes	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713	291.3
No	WJVF-LD	D17	LD	LIC	Jacksonville, FL	BLANK0000129911	311.4
No	WJVF-LD	D17	LD	CP	Jacksonville, FL	BLANK0000157569	349.3
No	WFXU	D17	DT	LIC	LIVE OAK, FL	BLANK0000112143	336.5
No	W17ES-D	D17	LD	CP	ADEL, GA	BLANK0000156318	316.2
Yes	WSB-TV	D17	LD	CP	ATLANTA, GA	BLANK0000137672	188.5
No	WKSJ-LD	D17	LD	CP	SUMMERVILLE/TRION, GA	BLANK0000074683	339.5
No	WCEE-LD	D17	LD	LIC	CHARLOTTE, NC	BLANK0000180361	230.6
No	W17EE-D	D17	LD	LIC	LILESVILLE/WADESBORO, NC	BLANK0000177549	249.7
No	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	394.3
No	W17DO-D	D17	LD	LIC	WILMINGTON, NC	BLANK0000178056	347.1
Yes	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	206.5
Yes	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000083635	211.5
No	WDTT-LD	D17	LD	LIC	KNOXVILLE, TN	BLANK0000136292	346.2
No	WVVA	D17	DT	LIC	BLUEFIELD, WV	BLANK0000087309	431.6
No	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000127491	431.6
No	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094	235.2
Yes	WIEF-LD	D18	LD	LIC	AUGUSTA, GA	BLANK0000096704	1.3
No	WPGA-LD	D18-	LD	LIC	MACON, GA	BLANK0000163851	175.6
No	WUET-LD	D18	LD	LIC	SAVANNAH, GA	BLANK0000106517	154.0
No	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	230.1
No	WLCN-CD	D18	DC	LIC	CHARLESTON, SC	BLDTA20090616AAY	165.7
No	W18FC-D	D18	LD	APP	FLORENCE, SC	BLANK0000185726	217.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Mask: Full Service
Latitude: 33 24 37.00 N (NAD83)
Longitude: 81 50 36.00 W
Height AMSL: 526.1 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

Table 1 WJEA-LD TV Study Analysis of Proposal
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49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	422.8 m	64.3 km
45.0	15.0	412.7	63.7
90.0	15.0	427.5	64.5
135.0	15.0	438.4	65.1
180.0	15.0	478.7	66.5
225.0	15.0	488.1	66.8
270.0	15.0	483.5	66.7
315.0	15.0	439.7	65.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 449 m

Distance to Canadian border: 920.1 km

Distance to Mexican border: 1671.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 281.5 degrees Distance: 271.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.5 degrees Distance: 2203.5 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

Interference to BLANK0000186170 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W16EE-D	D16	LD	APP	AUGUSTA, GA	BLANK0000186170	
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	46.9 km
	WDDZ-LD	D15	LD	LIC	AUGUSTA, GA	BLANK0000158634	35.7
	W16EL-D	D16	LD	CP	AUGUSTA, GA	BLANK0000155482	16.2
	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK0000178766	275.4
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	231.5
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	196.7

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
166.4	1,438	151.5	1,209	65.4	624	64.4 624	1.52 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WJEA-LD D17 LD APP				1.0 0	1.0 0		
W16EL-D D16 LD CP				84.2 582	74.3 530	74.3 530	
WPXA-TV D16 DT LIC				3.0 3	1.0 3	1.0 3	
WSAV-TV D16 DT LIC				9.9 52	1.0 0	1.0 0	

Interference to BLANK0000179225 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W16EE-D	D16	LD	LIC	AUGUSTA, GA	BLANK0000179225	
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	46.9 km
	WDDZ-LD	D15	LD	LIC	AUGUSTA, GA	BLANK0000158634	35.7
	W16EL-D	D16	LD	CP	AUGUSTA, GA	BLANK0000155482	16.2
	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK0000178766	275.4
	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	156.2
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	231.5

Table 1 WJEA-LD TV Study Analysis of Proposal
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WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	196.7			
WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK0000093423	146.7			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
151.7	6,113	142.8	6,031	64.4	3,336	63.4	3,336	1.54	0.00
Undesired			Total IX	Unique IX, before		Unique IX, after			
WJEA-LD	D17	LD APP	1.0	0		1.0	0		
W16EL-D	D16	LD CP	78.3	2,695	72.4	2,682	72.4	2,682	
WDMA-CD	D16	DC LIC	1.0	0	0.0	0	0.0	0	
WPXA-TV	D16	DT LIC	1.0	0	0.0	0	0.0	0	
WSAV-TV	D16	DT LIC	5.9	13	0.0	0	0.0	0	
WWYA-LD	D16	LD LIC	1.0	0	0.0	0	0.0	0	

Interference to BLANK0000055021 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021			
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	158.6 km		
	WCJB-TV	D16	DT	LIC	GAINESVILLE, FL	BLCDT20071119AJB	299.4		
	WRCF-CD	D16	DC	LIC	ORLANDO, FL	BLANK0000099575	386.5		
	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	239.0		
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	399.8		
	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK00000138174	286.2		
	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK00000184941	179.4		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39843.8	1,000,457	39812.7	1,000,401	39652.4	998,580	39648.5	998,461	0.01	0.01

Interference to BLANK0000129713 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713			
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	291.3 km		
	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	109.7		
	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425	296.1		
	WJMY-CD	D17	DC	LIC	TUSCALOOSA, AL	BLANK0000086812	265.1		
	WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLANK0000121008	343.9		
	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000083635	354.3		
	WBMM	D18	DT	LIC	TUSKEGEE, AL	BLANK0000081490	120.3		
	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094	149.8		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
42967.8	1,819,308	42750.6	1,812,214	41595.0	1,714,405	41592.0	1,714,405	0.01	0.00

Interference to BLANK0000137672 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSB-TV	D17	LD	CP	ATLANTA, GA	BLANK0000137672	

Table 1 WJEA-LD TVStudy Analysis of Proposal
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Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	188.5 km
	W16EE-D	D16	LD	APP	AUGUSTA, GA	BLANK0000186170	143.1
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	90.3
	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713	182.9
	WKSJ-LD	D17	LD	CP	SUMMERVILLE/TRION, GA	BLANK0000074683	151.5
	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000083635	171.8
	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094	53.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4136.8	655,001	4118.9	652,756	3214.1	471,423	3214.1	471,423	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after	
WJEA-LD	D17	LD APP	2.0	1,065			0.0	0
WPXA-TV	D16	DT LIC	2.0	1,730	0.0	0	0.0	0
WGBP-TV	D17	DD LIC	119.1	21,648	32.8	4,345	32.8	4,345
WKSJ-LD	D17	LD CP	1.0	944	0.0	0	0.0	0
WHNS	D17	DT LIC	799.9	107,069	678.0	80,568	677.0	79,503
WUVG-DT	D18	DT LIC	126.4	91,565	64.2	62,543	64.2	62,543

Interference to BLANK0000184941 LIC scenario 1

Desired:	Call WTAT-TV	Chan D17	Svc DT	Status LIC	City, State CHARLESTON, SC	File Number BLANK0000184941	Distance		
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	206.5 km		
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	179.4		
	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	322.3		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37244.9	1,109,837	37244.9	1,109,837	37232.9	1,108,795	36927.9	1,106,082	0.82	0.24

Undesired			Total IX		Unique IX, before		Unique IX, after	
WJEA-LD	D17	LD APP	305.0	2,713			305.0	2,713
WSAV-TV	D16	DT LIC	7.0	1,042	7.0	1,042	7.0	1,042
WRAL-TV	D17	DT LIC	4.9	0	4.9	0	4.9	0

Interference to BLANK0000083635 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000083635			
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	211.5 km		
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	203.9		
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	147.3		
	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425	354.3		
	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713	354.3		
	WKSO-TV	D17	DT	LIC	SOMERSET, KY	BLANK0000087465	292.7		
	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	380.2		
	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	371.1		
	WVVA	D17	DT	LIC	BLUEFIELD, WV	BLANK0000087309	266.9		
	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	177.1		
	WPXK-TV	D18	DT	LIC	JELICO, TN	BLANK0000081463	145.9		
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
42370.3	2,550,583	35190.7	2,270,017	34684.1	2,253,291	34554.0	2,249,579	0.38	0.16

Undesired			Total IX		Unique IX, before		Unique IX, after	
WJEA-LD	D17	LD APP	189.0	4,441			130.1	3,712
WPXA-TV	D16	DT LIC	4.0	767	2.0	729	2.0	729
WAPK-CD	D16	DC LIC	21.2	2,045	6.1	1,605	6.1	1,605
WAAY-TV	D17	DT LIC	21.9	0	17.9	0	12.0	0
WGBP-TV	D17	DD LIC	138.5	5,690	135.5	5,652	114.4	5,116
WKSO-TV	D17	DT LIC	51.0	218	19.9	0	17.9	0
WRAL-TV	D17	DT LIC	64.8	1,782	41.9	755	40.9	695
WTAT-TV	D17	DT LIC	5.0	163	4.0	132	4.0	132
WVVA	D17	DT LIC	223.4	6,781	171.4	4,677	155.5	4,638
WCCB	D18	DT LIC	31.8	1,593	19.9	913	17.9	850
WPXK-TV	D18	DT LIC	32.9	24	16.0	22	15.0	22

Interference to BLANK0000083635 LIC scenario 2

Table 1 WJEA-LD TVStudy Analysis of Proposal
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Desired:	Call WHNS	Chan D17	Svc DT	Status LIC	City, State GREENVILLE, SC	File Number BLANK0000083635	Distance
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	211.5 km
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	203.9
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	147.3
	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425	354.3
	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713	354.3
	WKSO-TV	D17	DT	LIC	SOMERSET, KY	BLANK0000087465	292.7
	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	380.2
	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	371.1
	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000127491	266.9
	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	177.1
	WPXK-TV	D18	DT	LIC	JELICO, TN	BLANK0000081463	145.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42370.3 2,550,583		35190.7 2,270,017		34659.3 2,252,042		34529.1 2,248,330	0.38 0.16

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJEA-LD D17 LD APP	189.0	4,441			130.1	3,712
WPXA-TV D16 DT LIC	4.0	767	2.0	729	2.0	729
WAPK-CD D16 DC LIC	21.2	2,045	6.1	1,605	6.1	1,605
WAAY-TV D17 DT LIC	21.9	0	17.9	0	12.0	0
WGBP-TV D17 DD LIC	138.5	5,690	135.5	5,652	114.4	5,116
WKSO-TV D17 DT LIC	51.0	218	19.9	0	17.9	0
WRAL-TV D17 DT LIC	64.8	1,782	41.9	755	40.9	695
WTAT-TV D17 DT LIC	5.0	163	4.0	132	4.0	132
WVVA D17 DT CP	248.3	8,030	196.3	5,926	180.3	5,887
WCCB D18 DT LIC	31.8	1,593	19.9	913	17.9	850
WPXK-TV D18 DT LIC	32.9	24	16.0	22	15.0	22

Interference to BLANK0000096704 LIC scenario 1

Desired:	Call WJEA-LD	Chan D18	Svc LD	Status LIC	City, State AUGUSTA, GA	File Number BLANK0000096704	Distance
Undesireds:	WJEA-LD	D17	LD	APP	AUGUSTA, GA	WJEA-LD 1059411 prop	1.3 km
	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094	235.4
	WUET-LD	D18	LD	LIC	SAVANNAH, GA	BLANK0000106517	155.1
	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	228.8
	W18FC-D	D18	LD	APP	FLORENCE, SC	BLANK0000185726	216.7
	W19DO-D	D19	LD	CP	AUGUSTA, GA	BNPDTL20100421ABO	40.1
	WBPI-CD	D19	DC	LIC	AUGUSTA, GA	BLANK0000059661	14.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6876.0 523,821		6795.6 523,047		5652.8 437,420		5359.5 431,282	5.19 1.40

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJEA-LD D17 LD APP	594.7	32,065			293.3	6,138
WUVG-DT D18 DT LIC	71.4	2,249	20.8	75	10.9	13
WUET-LD D18 LD LIC	4.9	30	0.0	0	0.0	0
WCCB D18 DT LIC	27.8	845	4.0	0	3.0	0
W19DO-D D19 LD CP	76.4	16,712	13.9	5,010	6.0	1,715
WBPI-CD D19 DC LIC	1097.2	79,941	998.1	68,407	781.9	53,552

Interference to proposal scenario 1

Desired:	Call WJEA-LD	Chan D17	Svc LD	Status APP	City, State AUGUSTA, GA	File Number WJEA-LD 1059411 prop	Distance
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA	BLANK0000186170	46.9 km
	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713	291.3
	WJVF-LD	D17	LD	LIC	Jacksonville, FL	BLANK0000129911	311.4
	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	206.5
	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000083635	211.5
Service area		Terrain-limited		IX-free		Percent IX	
13400.6 615,362		13385.8 615,244		12713.5 606,143		5.02	1.48
Undesired	Total IX		Unique IX		Prct Unique IX		

Table 1 WJEA-LD TVStudy Analysis of Proposal
(page 6 of 6)



WGBP-TV D17 DD LIC	12.9	224	1.0	0	0.01	0.00
WTAT-TV D17 DT LIC	49.6	378	24.8	146	0.19	0.02
WHNS D17 DT LIC	646.4	8,955	615.7	8,591	4.60	1.40

**Channel and
Facility
Information**

Section	Question	Response
Facility ID	185526	
State	Georgia	
City	AUGUSTA	
LPD Channel	17	

Primary station proposed to be rebroadcast:

Facility Id	Call Sign	City	State
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Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1059411
Coordinates (NAD83)	Latitude	33° 24' 37.0" N+
	Longitude	081° 50' 36.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	459.0 meters
	Support Structure Height	434.3 meters
	Ground Elevation (AMSL)	114.6 meters
Antenna Data	Height of Radiation Center Above Ground Level	411.5 meters
	Height of Radiation Center Above Mean Sea Level	526.1 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	TLP-16A/VP-R
	Rotation	
	Electrical Beam Tilt	1.0
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
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