

ENGINEERING EXHIBIT

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

Gray Television Licensee, LLC
WKSJ-LD Rome, GA
Facility ID 49237
Ch. 24 15 kW Nondirectional

Gray Television Licensee, LLC (“Gray”) is the licensee of digital Low Power Television station WKSJ-LD, Channel 24, Facility ID 49237, Rome GA. WKSJ-LD is licensed to operate at 15 kW effective radiated power (“ERP”) with a directional antenna (file# 0000205681). *Gray* herein seeks a minor modification Construction Permit to relocate WKSJ-LD and to utilize a nondirectional antenna.

The proposed facility will employ a new antenna to be side-mounted on the tower structure associated with FCC Antenna Structure Registration number 1201411, located 35.2 km (21.9 miles) from the licensed site. No change to the overall structure height is proposed.

The proposed antenna is a Dielectric model TLP-12A/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.

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

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 0.2 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.

Class A stations. FCC processing of this proposal is requested using a 1.0 km cell size and 0.2 km terrain profile increment. 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 $3.8 \mu\text{W}/\text{cm}^2$, which is 1.1 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.

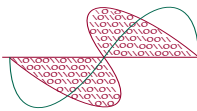
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power 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.	October 31, 2023	
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
WKSJ-LD Rome, GA
Facility ID 49237
Ch. 24 15 kW Nondirectional

prepared for
Gray Television Licensee, LLC

October, 2023

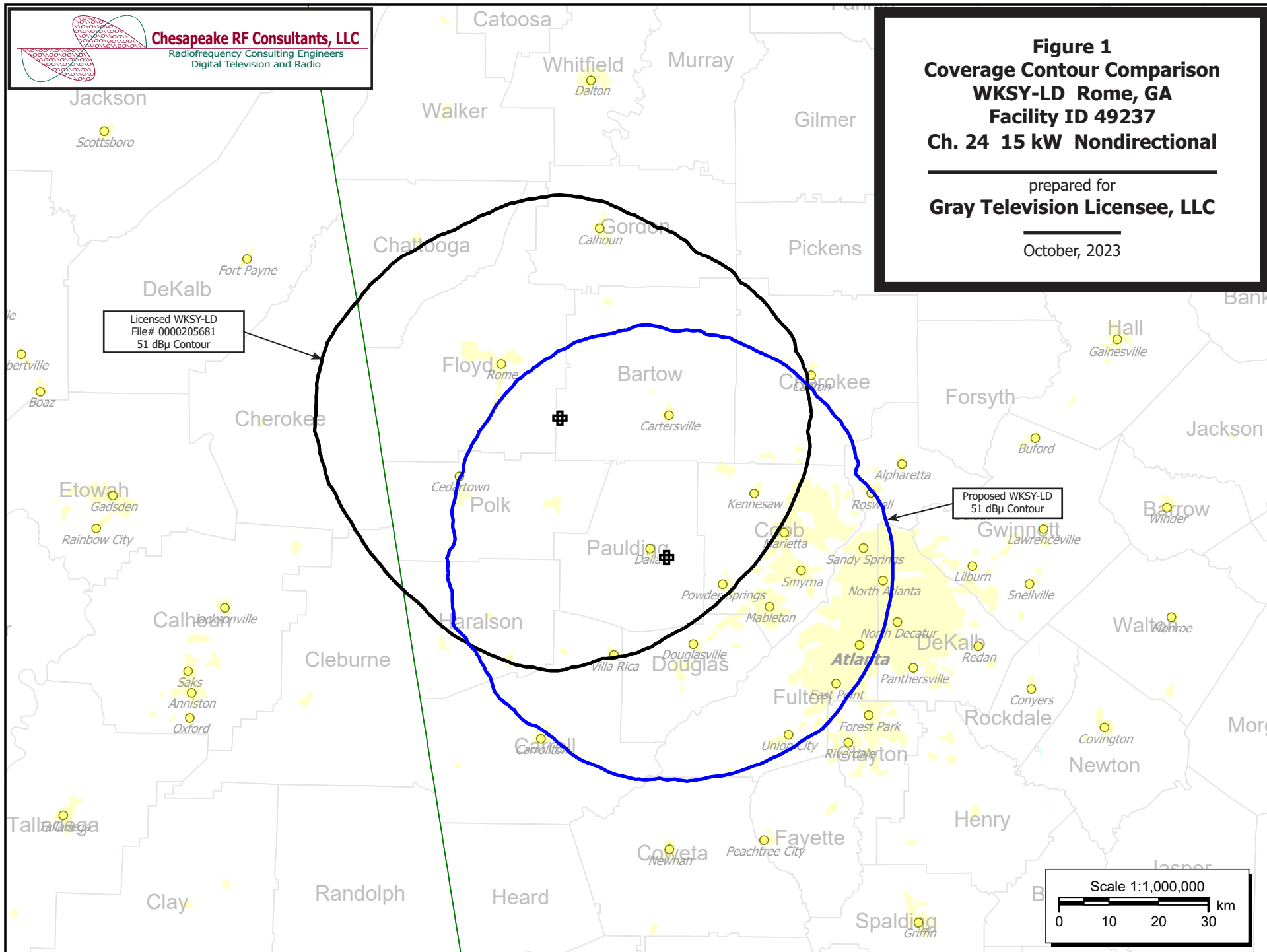


Table 1 WKSY-LD TVStudy Analysis of Proposal (page 1 of 8)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WKSY-LD_1201411 1.0-0.2, Model: Longley-Rice
Start: 2023.10.30 14:30:58

Study created: 2023.10.30 14:30:58

Study build station data: LMS TV 2023-10-30

Proposal: WKSY-LD D24 LD APP ROME, GA
File number: WKSY-LD_1201411
Facility ID: 49237
Station data: User record
Record ID: 210
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	WQAP-LD	D23	LD	LIC	MONTGOMERY, AL	BLANK0000115788	223.9 km
No	WOIL-CD	D23	DC	LIC	TALLADEGA, AL	BLANK0000110450	141.0
No	WZVC-LD	D23	LD	LIC	ATHENS, GA	BLANK0000178758	152.7
No	WZVC-LD	D23	LD	CP	ATHENS, GA	BLANK0000185000	146.9
Yes	W23EV-D	D23	LD	LIC	CARROLLTON, GA	BLANK0000125385	42.9
No	WAUA-LD	D23	LD	LIC	COLUMBUS, GA	BLANK0000189629	161.6
Yes	WKTG-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811	55.7
No	WPGA-TV	D23	DT	LIC	PERRY, GA	BLANK0000116580	173.1
No	W23EZ-D	D23	LD	LIC	SYLVA, NC	BLANK0000080642	207.2
Yes	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	147.0
No	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	190.2
Yes	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	183.1
No	WWEO-LD	D24	LD	LIC	DEFUNIAK SPRINGS, FL	BLDTA20120712ABF	372.8
No	W24EY-D	D24	LD	APP	PANAMA CITY, FL	BLANK0000207145	419.3
No	WSRE	D24	DT	LIC	PENSACOLA, FL	BLANK0000090765	451.2
No	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLANK0000210947	367.1
No	W24FC-D	D24	LD	LIC	AUGUSTA, GA	BLANK0000213688	240.6
No	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	447.1
Yes	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	160.9
Yes	WVND-LD	D24	LD	LIC	SUWANEE, GA	BLANK0000179560	72.6
Yes	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	153.2
No	WNKY	D24	DT	LIC	BOWLING GREEN, KY	BLANK0000111324	369.1
No	W24EP-D	D24	DC	LIC	FULTON, MS	BLANK0000063965	318.8
No	WMDN	D24	DT	CP	MERIDIAN, MS	BLANK0000035927	402.2
No	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	402.2
No	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	368.9
Yes	WDDA-LD	D24	LD	LIC	CHATTANOOGA, TN	BLANK0000185266	144.1
No	WNFX-LD	D24	LD	LIC	NASHVILLE, TN	BLANK0000179242	283.5
No	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	312.1
No	WAKA	D25	DT	LIC	SELMA, AL	BLANK0000081489	268.3
Yes	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	44.4
No	W25EM-D	D25	LD	LIC	COLUMBUS, GA	BLANK0000196006	176.3
No	W25EM-D	D25	LD	APP	COLUMBUS, GA	BLANK0000202061	176.3
No	W25FW-D	D25	LD	LIC	COLUMBUS, GA	BLANK0000221308	150.2
No	DW25EG-D	D25	LD	APP	COLUMBUS, GA	BLDTL20121226AAY	153.7
No	W25FP-D	D25	LD	LIC	YOUNG HARRIS, GA	BLANK0000136498	140.9
No	W25FP-D	D25	LD	CP	YOUNG HARRIS, GA	BLANK0000162659	152.4
No	WYHB-CD	D25	DC	LIC	CHATTANOOGA, TN	BLANK0000102891	151.1
No	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000127542	151.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
Mask: Full Service
Latitude: 33 54 27.70 N (NAD83)

Table 1 WKSY-LD TVStudy Analysis of Proposal
(page 2 of 8)



Longitude: 84 48 18.20 W
Height AMSL: 430.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	136.0 m	47.2 km
45.0	15.0	112.9	45.5
90.0	15.0	126.6	46.5
135.0	15.0	142.2	47.6
180.0	15.0	116.4	45.8
225.0	15.0	102.1	44.4
270.0	15.0	111.2	45.3
315.0	15.0	140.2	47.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 123 m

Distance to Canadian border: 883.4 km

Distance to Mexican border: 1460.9 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: 123.9 degrees Distance: 9.0 km
ERP: 15.0 kW HAAT: 135.9 m Field strength: 86.7 dBu, 21.6 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.8 degrees Distance: 1933.8 km

Study cell size: 1.00 km
Profile point spacing: 0.20 km

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

Interference to BLANK0000125385 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23EV-D	D23	LD	LIC	CARROLLTON, GA	BLANK0000125385	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	42.9 km
	W22EC-D	D22	LD	LIC	LA GRANGE, GA	BLANK0000195925	80.7
	WHSG-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	64.1
	WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	131.0
	WOIL-CD	D23	DC	LIC	TALLADEGA, AL	BLANK0000110450	111.6
	W23FN-D	D23	LD	LIC	ALBANY, GA	BLANK0000194770	245.1
	WZVC-LD	D23	LD	LIC	ATHENS, GA	BLANK0000178758	176.2
	WAUA-LD	D23	LD	LIC	COLUMBUS, GA	BLANK0000189629	122.0
	WKTb-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811	85.0
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	179.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5107.1	356,505	4965.4	351,749	4740.6	328,250	4738.6	327,839	0.04	0.13
Undesired				Total IX		Unique IX, before		Unique IX, after	
WKSY-LD	D24 LD APP	8.9		1,535		2.0	411		
WHSG-TV	D22 DT LIC	30.7		3,569	14.8	1,328	13.9	1,328	
WOIL-CD	D23 DC LIC	48.5		2,442	26.7	1,449	26.7	1,449	
WAUA-LD	D23 LD LIC	1.0		0	0.0	0	0.0	0	
WKTb-CD	D23 DC LIC	81.1		15,481	56.4	12,339	56.4	12,339	
WFLI-TV	D23 DT LIC	111.0		6,142	83.3	4,256	81.3	3,694	

Table 1 WKSY-LD TVStudy Analysis of Proposal
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Interference to BLANK0000081811 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WKTB-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811			
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	55.7 km		
	WHSB-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	24.1		
	WPGA-TV	D23	DT	LIC	PERRY, GA	BLANK0000116580	142.7		
	WBTB	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	319.2		
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	171.9		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6394.7	3,752,094	6158.8	3,657,717	5366.0	3,248,342	5365.0	3,247,743	0.02	0.02
Undesired				Total IX		Unique IX, before		Unique IX, after	
WKSY-LD	D24	LD	APP	15.8	11,084	1.0	599		
WHSB-TV	D22	DT	LIC	713.4	374,189	650.0	343,207		
WPGA-TV	D23	DT	LIC	2.0	178	0.0	0		
WBTB	D23	DT	LIC	5.0	618	3.0	351		
WFLI-TV	D23	DT	LIC	130.9	59,133	71.5	32,199		

Interference to BLANK0000093785 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance				
Desired:	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785					
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	147.0 km				
	WHSB-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	180.2				
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLED20110413ACS	112.6				
	WOIL-CD	D23	DC	LIC	TALLADEGA, AL	BLANK0000110450	210.9				
	WKTB-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811	171.9				
	WKZT-TV	D23	DT	LIC	ELIZABETHTOWN, KY	BLANK0000087417	284.1				
	WJDE-CD	D23	DC	LIC	NASHVILLE, TN	BLANK0000096454	176.3				
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	120.0				
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
25352.0	1,294,296	22274.8	1,176,428	21897.7	1,160,631	21897.7	1,160,631	0.00	0.00		
Undesired				Total IX	Unique IX, before		Unique IX, after				
WKSY-LD	D24	LD	APP	3.0	120	0.0		0			
WHSB-TV	D22	DT	LIC	2.0	0	0.0		0			
WCTE	D22	DT	LIC	96.3	1,557	90.3	1,509	90.3	1,509		
WOIL-CD	D23	DC	LIC	150.9	6,016	133.7	5,060	133.7	5,060		
WKTB-CD	D23	DC	LIC	93.4	7,717	70.3	6,770	69.3	6,770		
WKZT-TV	D23	DT	LIC	3.0	0	0.0		0			
WJDE-CD	D23	DC	LIC	55.7	1,448	50.8	1,441	50.8	1,441		
WHIQ	D24	DT	LIC	5.0	63	4.0	13	4.0	13		

Interference to BLANK0000220387 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387			
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	183.1 km		
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	120.0		
	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	141.0		
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	295.5		
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1		
	WNKY	D24	DT	LIC	BOWLING GREEN, KY	BLANK0000111324	257.4		
	W24EP-D	D24	DC	LIC	FULTON, MS	BLANK0000063965	175.7		
	WMDN	D24	DT	CP	MERIDIAN, MS	BLANK0000035927	334.4		
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	353.7		
	WYHB-CD	D25	DC	LIC	CHATTANOOGA, TN	BLANK0000102891	125.5		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28802.7	1,279,480	27308.1	1,220,796	26924.6	1,209,406	26839.1	1,207,454	0.32	0.16
Undesired				Total IX	Unique IX, before		Unique IX, after		
WKSY-LD	D24	LD	APP	97.6	3,210		85.6	1,952	
WFLI-TV	D23	DT	LIC	34.0	947	31.0	899	31.0	899

Table 1 WKSY-LD TVStudy Analysis of Proposal
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WTBM-CD D24 DC LIC	286.9	8,405	256.2	7,690	255.3	6,813
WXTX D24 DT LIC	5.0	276	1.0	0	0.0	0
WGTA D24 DT LIC	5.0	267	2.0	73	0.0	0
WNKY D24 DT LIC	17.9	966	17.9	966	17.9	966
W24EP-D D24 DC LIC	3.0	0	2.0	0	2.0	0
WMDN D24 DT CP	56.3	1,228	25.7	513	25.7	513
WETP-TV D24 DT LIC	15.0	340	11.0	292	7.0	200

Interference to BLANK0000220387 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	183.1 km
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	120.0
	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	141.0
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	295.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1
	WNKY	D24	DT	LIC	BOWLING GREEN, KY	BLANK0000111324	257.4
	W24EP-D	D24	DC	LIC	FULTON, MS	BLANK0000063965	175.7
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	334.4
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	353.7
	WYHB-CD	D25	DC	LIC	CHATTANOOGA, TN	BLANK0000102891	125.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28802.7 1,279,480	27308.1 1,220,796	26929.6 1,209,508	26844.0 1,207,556	0.32 0.16

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	97.6 3,210	85.6 1,952	
WFLI-TV D23 DT LIC	34.0 947	31.0 899	
WTBM-CD D24 DC LIC	286.9 8,405	267.1 7,854	266.1 6,977
WXTX D24 DT LIC	5.0 276	1.0 0	0.0 0
WGTA D24 DT LIC	5.0 267	2.0 73	0.0 0
WNKY D24 DT LIC	17.9 966	17.9 966	17.9 966
W24EP-D D24 DC LIC	3.0 0	2.0 0	2.0 0
WMDN D24 DT LIC	40.5 962	20.7 411	20.7 411
WETP-TV D24 DT LIC	15.0 340	11.0 292	7.0 200

Interference to BLANK0000220387 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	183.1 km
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	120.0
	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	141.0
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	295.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1
	WNKY	D24	DT	LIC	BOWLING GREEN, KY	BLANK0000111324	257.4
	W24EP-D	D24	DC	LIC	FULTON, MS	BLANK0000063965	175.7
	WMDN	D24	DT	CP	MERIDIAN, MS	BLANK0000035927	334.4
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	353.7
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000127542	125.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28802.7 1,279,480	27308.1 1,220,796	26924.6 1,209,406	26839.1 1,207,454	0.32 0.16

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	97.6 3,210	85.6 1,952	
WFLI-TV D23 DT LIC	34.0 947	29.0 898	29.0 898
WTBM-CD D24 DC LIC	286.9 8,405	256.2 7,690	255.3 6,813
WXTX D24 DT LIC	5.0 276	1.0 0	0.0 0
WGTA D24 DT LIC	5.0 267	2.0 73	0.0 0
WNKY D24 DT LIC	17.9 966	17.9 966	17.9 966
W24EP-D D24 DC LIC	3.0 0	2.0 0	2.0 0
WMDN D24 DT CP	56.3 1,228	25.7 513	25.7 513
WETP-TV D24 DT LIC	15.0 340	11.0 292	7.0 200
WYHB-CD D25 DC CP	3.0 6	0.0 0	0.0 0

Interference to BLANK0000220387 LIC scenario 4

Table 1 WKSY-LD TVStudy Analysis of Proposal
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	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	183.1 km
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	120.0
	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	141.0
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	295.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1
	WNKY	D24	DT	LIC	BOWLING GREEN, KY	BLANK0000111324	257.4
	W24EP-D	D24	DC	LIC	FULTON, MS	BLANK0000063965	175.7
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	334.4
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	353.7
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000127542	125.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28802.7 1,279,480	27308.1 1,220,796	26929.6 1,209,508	26844.0 1,207,556	0.32 0.16

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	97.6 3,210	85.6 1,952	
WFLI-TV D23 DT LIC	34.0 947	29.0 898	
WTBM-CD D24 DC LIC	286.9 8,405	267.1 7,854	
WXTX D24 DT LIC	5.0 276	1.0 0	
WGTA D24 DT LIC	5.0 267	2.0 73	
WNKY D24 DT LIC	17.9 966	17.9 966	
W24EP-D D24 DC LIC	3.0 0	2.0 0	
WMDN D24 DT LIC	40.5 962	20.7 411	
WETP-TV D24 DT LIC	15.0 340	11.0 292	
WYHB-CD D25 DC CP	3.0 6	0.0 0	

Interference to BLANK0000064021 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	160.9 km
	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	121.4
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	295.5
	WSRE	D24	DT	LIC	PENSACOLA, FL	BLANK0000090765	330.3
	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLANK0000210947	215.7
	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	348.0
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	276.7
	WMDN	D24	DT	CP	MERIDIAN, MS	BLANK0000035927	358.2
	WAKA	D25	DT	LIC	SELMA, AL	BLANK0000081489	181.8
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	157.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21189.6 699,455	20902.4 695,780	20476.7 691,020	20456.8 690,350	0.10 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	97.8 2,112	20.0 670	
WTBM-CD D24 DC LIC	3.0 121	1.0 0	
WHIQ D24 DT LIC	107.8 1,661	49.9 987	
WSRE D24 DT LIC	21.1 77	13.1 67	
WTLF D24 DT LIC	223.6 1,885	165.5 1,337	
WPXC-TV D24 DT LIC	39.3 72	14.1 0	
WGTA D24 DT LIC	109.8 1,420	58.9 906	
WMDN D24 DT CP	22.0 99	4.0 28	
WAKA D25 DT LIC	18.1 489	17.1 489	
WATL D25 DT LIC	2.0 33	0.0 0	

Interference to BLANK0000064021 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	160.9 km
	WTBM-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000206527	121.4
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	295.5
	WSRE	D24	DT	LIC	PENSACOLA, FL	BLANK0000090765	330.3
	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLANK0000210947	215.7

Table 1 WKSY-LD TVStudy Analysis of Proposal
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WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	348.0
WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	276.7
WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	358.2
WAKA	D25	DT	LIC	SELMA, AL	BLANK0000081489	181.8
WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	157.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21189.6 699,455	20902.4 695,780	20479.7 691,020	20459.8 690,350	0.10 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	97.8 2,112		20.0 670
WTBM-CD D24 DC LIC	3.0 121	1.0 0	1.0 0
WHIQ D24 DT LIC	107.8 1,661	52.9 987	37.0 714
WSRE D24 DT LIC	21.1 77	15.1 70	14.1 68
WTLF D24 DT LIC	223.6 1,885	165.5 1,337	156.4 815
WPXC-TV D24 DT LIC	39.3 72	14.1 0	14.1 0
WGTA D24 DT LIC	109.8 1,420	58.9 906	46.9 741
WMDN D24 DT LIC	13.0 80	1.0 28	0.0 0
WAKA D25 DT LIC	18.1 489	17.1 489	17.1 489
WATL D25 DT LIC	2.0 33	0.0 0	0.0 0

Interference to BLANK0000179560 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVND-LD	D24	LD	LIC	SUWANEE, GA	BLANK0000179560	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	72.6 km
	WZVC-LD	D23	LD	LIC	ATHENS, GA	BLANK0000178758	86.4
	WKTG-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811	24.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	84.5
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	41.9
	W25FP-D	D25	LD	LIC	YOUNG HARRIS, GA	BLANK0000136498	89.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
801.3 775,274	784.5 762,586	564.3 524,644	561.4 521,467	0.52 0.61

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	48.4 44,928		3.0 3,177
WKTG-CD D23 DC LIC	20.7 43,147	4.9 15,991	4.9 15,991
WGTA D24 DT LIC	106.7 110,823	55.3 63,913	51.4 58,830
WATL D25 DT LIC	156.0 145,850	99.7 99,338	78.0 77,748

Interference to BLANK0000001315 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	153.2 km
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	289.1
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	276.7
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	216.5
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	197.6
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	126.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16677.9 1,060,190	15927.4 1,033,305	15872.3 1,026,688	15802.9 1,023,095	0.44 0.35

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP	79.4 5,061		69.4 3,593
WHIQ D24 DT LIC	5.0 786	2.0 115	1.0 0
WXTX D24 DT LIC	3.0 268	0.0 0	0.0 0
WCNC-TV D24 DT LIC	14.0 981	10.0 697	9.0 697
WETP-TV D24 DT LIC	11.9 709	10.9 709	10.9 709
WATL D25 DT LIC	28.2 4,828	25.2 4,141	21.2 3,691

Interference to BLANK0000185266 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDDA-LD	D24	LD	LIC	CHATTANOOGA, TN	BLANK0000185266	

Table 1 WKSY-LD TVStudy Analysis of Proposal
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Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	144.1 km
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	3.8
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	117.3
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	238.9
	W25FP-D	D25	LD	LIC	YOUNG HARRIS, GA	BLANK0000136498	141.6
	WYHB-CD	D25	DC	LIC	CHATTANOOGA, TN	BLANK0000102891	10.3

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	4826.7	694,051	4335.9	641,374	3905.8	599,412	3890.7	594,810	0.38 0.77

Undesired				Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP		21.0		4,842		15.0 4,602
WFLI-TV D23 DT LIC		322.4		32,234	274.6 30,050	271.5 30,001
WHIQ D24 DT LIC		133.6		9,135	87.8 6,370	84.8 6,179
WETP-TV D24 DT LIC		15.0		1,057	3.0 138	3.0 138
WYHB-CD D25 DC LIC		33.9		4,250	7.0 1,936	7.0 1,936

Interference to BLANK0000185266 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDDA-LD	D24	LD	LIC	CHATTANOOGA, TN	BLANK0000185266	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	144.1 km
	WFLI-TV	D23	DT	LIC	CLEVELAND, TN	BLANK0000093785	3.8
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000220387	117.3
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	238.9
	W25FP-D	D25	LD	LIC	YOUNG HARRIS, GA	BLANK0000136498	141.6
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000127542	10.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4826.7	694,051	4335.9	641,374	3901.8 598,335	3888.7 594,536	0.33 0.63

Undesired				Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP		21.0		4,842		13.0 3,799
WFLI-TV D23 DT LIC		322.4		32,234	268.6 29,431	265.6 29,382
WHIQ D24 DT LIC		133.6		9,135	86.8 6,297	83.8 6,106
WETP-TV D24 DT LIC		15.0		1,057	3.0 138	3.0 138
WYHB-CD D25 DC CP		48.9		6,037	11.0 3,013	9.0 2,210

Interference to BLCDT20020716AAH LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	44.4 km
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	126.0
	WAKA	D25	DT	LIC	SELMA, AL	BLANK0000081489	292.7
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	338.8
	WYHB-CD	D25	DC	LIC	CHATTANOOGA, TN	BLANK0000102891	178.1
	WJFB	D25	DT	LIC	LEBANON, TN	BLANK0000147261	353.2
	WGXA	D26	DT	LIC	MACON, GA	BLANK0000074961	138.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	28967.6	5,878,565	27895.8	5,810,204	27350.3 5,786,258	27323.5 5,781,299	0.10 0.09

Undesired				Total IX	Unique IX, before	Unique IX, after
WKSY-LD D24 LD APP		27.8		4,966		26.8 4,959
WGTA D24 DT LIC		53.4		2,896	29.2 1,035	29.2 1,035
WAKA D25 DT LIC		182.7		6,773	167.8 4,714	166.8 4,707
WJZY D25 DT LIC		75.9		3,998	51.7 2,137	51.7 2,137
WYHB-CD D25 DC LIC		197.8		11,758	161.8 7,854	161.8 7,854
WJFB D25 DT LIC		40.0		4,509	4.0 202	4.0 202
WGXA D26 DT LIC		67.8		1,836	64.8 1,836	64.8 1,836

Interference to BLCDT20020716AAH LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	
Undesireds:	WKSY-LD	D24	LD	APP	ROME, GA	WKSY-LD_1201411	44.4 km

Table 1 WKSJ-LD TV Study Analysis of Proposal
(page 8 of 8)



WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	126.0
WAKA	D25	DT	LIC	SELMA, AL	BLANK00000081489	292.7
WJZY	D25	DT	LIC	BELMONT, NC	BLANK00000146872	338.8
WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK00000127542	178.1
WJFB	D25	DT	LIC	LEBANON, TN	BLANK00000147261	353.2
WGXA	D26	DT	LIC	MACON, GA	BLANK00000074961	138.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28967.6 5,878,565	27895.8 5,810,204	27333.3 5,785,048	27306.5 5,780,089	0.10 0.09

Undesired	Total IX	Unique IX, before	Unique IX, after
WKSJ-LD D24 LD APP	27.8 4,966	26.8 4,959	
WGTA D24 DT LIC	53.4 2,896	29.2 1,035	29.2 1,035
WAKA D25 DT LIC	182.7 6,773	165.8 4,690	164.8 4,683
WJZY D25 DT LIC	75.9 3,998	50.7 2,137	50.7 2,137
WYHB-CD D25 DC CP	220.8 12,992	178.8 9,064	178.8 9,064
WJFB D25 DT LIC	40.0 4,509	4.0 202	4.0 202
WGXA D26 DT LIC	67.8 1,836	64.8 1,836	64.8 1,836

Interference to proposal scenario 1
19.61% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKSJ-LD	D24	LD	APP	ROME, GA	WKSJ-LD_1201411	
Undesireds:	W23EV-D	D23	LD	LIC	CARROLLTON, GA	BLANK00000125385	42.9 km
	WKTG-CD	D23	DC	LIC	NORCROSS, GA	BLANK00000081811	55.7
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK00000220387	183.1
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK00000064021	160.9
	WVND-LD	D24	LD	LIC	SUWANEE, GA	BLANK00000179560	72.6
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK00000001315	153.2
	WDDA-LD	D24	LD	LIC	CHATTANOOGA, TN	BLANK00000185266	144.1
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	44.4
	W25FP-D	D25	LD	LIC	YOUNG HARRIS, GA	BLANK00000136498	140.9

Service area	Terrain-limited	IX-free	Percent IX
6685.6 2,160,360	6345.9 2,091,331	5757.1 1,681,322	9.28 19.61

Undesired	Total IX	Unique IX	Prcnt Unique IX
W23EV-D D23 LD LIC	34.7 10,021	26.8 7,483	0.42 0.36
WKTG-CD D23 DC LIC	3.0 4,449	0.0 0	0.00 0.00
WHIQ D24 DT LIC	65.3 24,034	20.8 2,908	0.33 0.14
WXTX D24 DT LIC	9.0 240	5.0 109	0.08 0.01
WVND-LD D24 LD LIC	135.4 153,394	15.8 19,709	0.25 0.94
WGTA D24 DT LIC	70.2 14,817	24.7 1,233	0.39 0.06
WDDA-LD D24 LD LIC	6.0 185	2.0 16	0.03 0.00
WATL D25 DT LIC	465.0 370,092	326.6 234,727	5.15 11.22

**Channel and
Facility
Information**

Section	Question	Response
Facility ID	49237	
State	Georgia	
City	ROME	
LPD Channel	24	

**Antenna Location
Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1201411
Coordinates (NAD83)	Latitude	33° 54' 27.7" N+
	Longitude	084° 48' 18.2" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	97.5 meters
	Support Structure Height	97.5 meters
	Ground Elevation (AMSL)	344.7 meters
Antenna Data	Height of Radiation Center Above Ground Level	85.3 meters
	Height of Radiation Center Above Mean Sea Level	430.0 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-12A/VP-R
	Rotation	
	Electrical Beam Tilt	0.5
	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