

## **ENGINEERING EXHIBIT**

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

prepared for

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

W31FB-D Eastabuchie, MS

Facility ID 186343

Ch. 31 4.1 kW Nondirectional

*Gray Television Licensee, LLC* (“*Gray*”) is the licensee of digital Low Power Television station W31FB-D, Channel 31, Eastabuchie MS, Facility ID 186343. W31FB-D, presently silent, is licensed to operate (file# 0000158644) with 4 kW effective radiated power (“ERP”), directional. A Construction Permit (“CP” file# 0000158644) authorizes W31FB-D to relocate to a different site and operate at 4.5 kW ERP nondirectional at increased antenna height *Gray* herein seeks a modification of the CP to specify slightly increased antenna height (by 13.7 meters) and decreased nondirectional ERP at the currently authorized site.

As with the current authorization, the proposed facility will employ a new side-mounted antenna on the existing tower structure associated with FCC Antenna Structure Registration number 1059778, located 7.5 km (4.7 miles) from the W31FB-D licensed site. No change to the overall structure height is proposed. The antenna supporting structure is owned by *Gray* and is utilized by *Gray*’s full-service television station WALA-TV (Facility ID 4143, Mobile AL).

The proposed antenna is a Dielectric model DLP-8B having horizontal polarization. The proposed ERP is 4.1 kW 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 and authorized facilities, demonstrating compliance with §73.3572 for a minor change. As shown on Figure 1, the proposed 51 dB $\mu$  contour expands just slightly beyond that of the current CP.

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 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  $0.09 \mu\text{W}/\text{cm}^2$ , which is 0.02 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.

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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 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.

**Engineering Exhibit**  
**Gray Television Licensee, LLC (WMBP-LD)**  
(page 3 of 3)

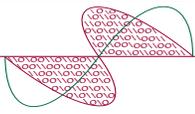


List of Attachments

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.                      September 2, 2022  
207 Old Dominion Road                      Yorktown, VA 23692                      703-650-9600

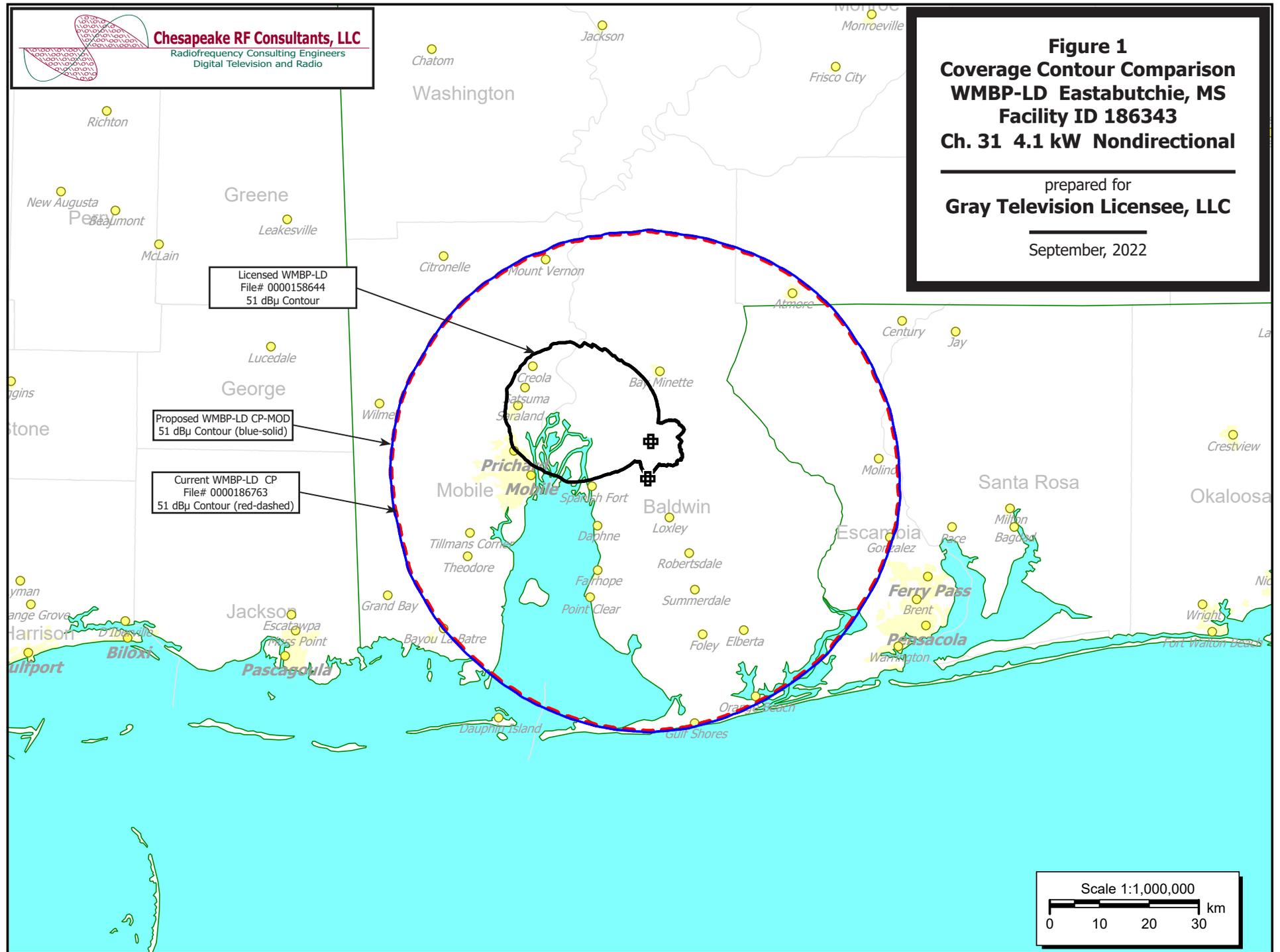


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 1**  
**Coverage Contour Comparison**  
**WMBP-LD Eastabutchie, MS**  
**Facility ID 186343**  
**Ch. 31 4.1 kW Nondirectional**

prepared for  
**Gray Television Licensee, LLC**

September, 2022



**Table 1 WMBP-LD TV Study Analysis of Proposal**  
 (page 1 of 5)



tvstudy v2.2.5 (4uoc83)  
 Database: localhost, Study: WMBP-LD 1059778 1045ft prop, Model: Longley-Rice  
 Start: 2022.09.02 15:49:18

Study created: 2022.09.02 15:49:18

Study build station data: LMS TV 2022-09-02

Proposal: WMBP-LD D31 LD APP EASTABUTCHIE, MS  
 File number: WMBP-LD 1059778 1045ft prop  
 Facility ID: 186343  
 Station data: User record  
 Record ID: 4633  
 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	WWBH-LD	N27	TX	LIC	MOBILE, AL	BLTTL19931029II	26.1 km
No	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	252.2
Yes	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	9.5
No	DW45DJ-D	D30	LD	APP	PANAMA CITY, FL	BLANK0000123144	200.6
No	W30EZ-D	D30	LD	LIC	PURVIS, MS	BLANK0000157972	157.9
No	W30EZ-D	D30	LD	CP	PURVIS, MS	BLANK0000195993	169.3
No	W30EZ-D	D30	LD	LIC	PURVIS, MS	BLANK0000197965	169.3
No	WAXC-LD	D31	LD	LIC	ALEXANDER CITY, AL	BLDTL20110329ABN	306.1
No	WSFG-LD	D31	LD	LIC	BERRY, AL	BLANK0000176885	334.2
Yes	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	189.1
No	W31EP-D	D31	LD	LIC	PANAMA CITY, FL	BLANK0000178762	201.7
No	WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000152274	475.3
No	W31EU-D	D31	LD	LIC	COLUMBUS, GA	BLANK0000177389	324.5
No	WSWG	D31	DT	LIC	VALDOSTA, GA	BLANK0000063722	426.0
No	WSWG	D31	DT	APP	VALDOSTA, GA	BLANK0000149841	426.0
No	KLAX-TV	D31	DT	LIC	ALEXANDRIA, LA	BLCDT20090622AGN	462.5
No	W31EL-D	D31	LD	LIC	BATON ROUGE, LA	BLANK0000157740	317.6
No	KNOV-CD	D31	DC	LIC	NEW ORLEANS, LA	BLANK0000087428	232.8
Yes	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	201.0
Yes	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	201.0
Yes	WGUD-LD	D31	LD	LIC	PASCAGOULA, MS	BLANK0000190566	76.8
No	WAAO-LD	D32	LD	LIC	ANDALUSIA, AL	BLANK0000155416	146.1
Yes	WLOX	D32	DT	LIC	BILOXI, MS	BLANK0000059502	123.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31  
 Mask: Full Service  
 Latitude: 30 41 17.00 N (NAD83)  
 Longitude: 87 47 54.00 W  
 Height AMSL: 379.5 m  
 HAAT: 0.0 m  
 Peak ERP: 4.10 kW  
 Antenna: Omnidirectional  
 Elev Pattn: Generic  
 Elec Tilt: 1.00

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	4.10 kW	328.8 m	50.7 km
45.0	4.10	336.9	51.1
90.0	4.10	339.2	51.3
135.0	4.10	333.9	51.0
180.0	4.10	344.4	51.5
225.0	4.10	337.3	51.2

**Table 1 WMBP-LD TV Study Analysis of Proposal**  
(page 2 of 5)



270.0      4.10      361.4      52.3  
315.0      4.10      356.2      52.1

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m      Computed HAAT: 342 m

Distance to Canadian border: 1304.2 km

Distance to Mexican border: 1034.6 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 38.5 degrees      Distance: 456.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 308.4 degrees      Distance: 1889.6 km

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

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

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Interference to BLANK0000111746 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	9.5 km
	WFBD	D29	DT	LIC	DESTIN, FL	BLANK0000131443	118.0
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	330.2
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	261.7
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	292.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	19085.7	1,053,327	18955.5	1,052,336	18737.6	1,046,854	0.01      0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
WMBP-LD	D31	LD	APP	1.0	0	1.0	0
WFBD	D29	DT	LIC	117.1	4,621	113.0	4,608
WIAT	D30	DT	LIC	5.1	109	0.0	0
WGIQ	D30	DT	LIC	4.0	13	0.0	0
WLBT	D30	DT	LIC	100.8	861	95.7	752

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Interference to BLANK0000111746 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	9.5 km
	WFBD	D29	DD	APP	DESTIN, FL	BLANK0000182313	81.3
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	330.2
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	261.7
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	292.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	19085.7	1,053,327	18955.5	1,052,336	18737.6	1,046,854	0.01      0.00
Undesired			Total IX		Unique IX, before	Unique IX, after	
WMBP-LD	D31	LD	APP	1.0	0	1.0	0
WFBD	D29	DD	APP	117.1	4,621	113.0	4,608
WIAT	D30	DT	LIC	5.1	109	0.0	0
WGIQ	D30	DT	LIC	4.0	13	0.0	0
WLBT	D30	DT	LIC	100.8	861	95.7	752

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Interference to BLANK0000001319 LIC scenario 1

**Table 1 WMBP-LD TVStudy Analysis of Proposal**  
(page 3 of 5)



Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds: WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778	1045ft 189.1 km
WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	148.3
WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	135.6
WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000152274	292.7
WSWG	D31	DT	LIC	VALDOSTA, GA	BLANK0000063722	340.6
WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	181.0
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
32057.6	668,055	31706.4	662,566	30318.9	643,152	30313.9 643,152 0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WMBP-LD D31 LD APP	17.2	1,195	5.1 0
WIAT D30 DT LIC	217.4	7,653	157.5 5,590 157.5 5,590
WGIQ D30 DT LIC	86.9	501	46.5 380 46.5 380
WPCH-TV D31 DT LIC	291.4	4,384	177.2 2,122 177.2 2,122
WSWG D31 DT LIC	1.0	24	0.0 0 0.0 0
WGBC D31 DT CP	962.2	10,418	862.9 8,951 850.7 7,756

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Interference to BLANK0000001319 LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds: WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778	1045ft 189.1 km
WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	148.3
WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	135.6
WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000152274	292.7
WSWG	D31	DT	LIC	VALDOSTA, GA	BLANK0000063722	340.6
WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	181.0
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
32057.6	668,055	31706.4	662,566	30409.6	644,966	30402.5 644,353 0.02 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
WMBP-LD D31 LD APP	17.2	1,195	7.1 613
WIAT D30 DT LIC	217.4	7,653	158.5 5,590 158.5 5,590
WGIQ D30 DT LIC	86.9	501	47.5 380 47.5 380
WPCH-TV D31 DT LIC	291.4	4,384	178.2 2,122 178.2 2,122
WSWG D31 DT LIC	1.0	24	0.0 0 0.0 0
WGBC D31 DT LIC	866.4	8,602	772.2 7,137 762.0 6,555

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Interference to BLANK0000001319 LIC scenario 3

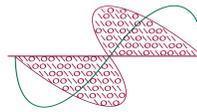
Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds: WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778	1045ft 189.1 km
WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	148.3
WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	135.6
WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000152274	292.7
WSWG	D31	DT	APP	VALDOSTA, GA	BLANK0000149841	340.6
WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	181.0
Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
32057.6	668,055	31706.4	662,566	30318.9	643,152	30313.9 643,152 0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WMBP-LD D31 LD APP	17.2	1,195	5.1 0
WIAT D30 DT LIC	217.4	7,653	157.5 5,590 157.5 5,590
WGIQ D30 DT LIC	86.9	501	46.5 380 46.5 380
WPCH-TV D31 DT LIC	291.4	4,384	177.2 2,122 177.2 2,122
WSWG D31 DT APP	1.0	24	0.0 0 0.0 0
WGBC D31 DT CP	962.2	10,418	862.9 8,951 850.7 7,756

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Interference to BLANK0000001319 LIC scenario 4

Call	Chan	Svc	Status	City, State	File Number	Distance
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**Table 1 WMBP-LD TV Study Analysis of Proposal**  
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Desired:	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK000001319			
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	189.1	km	
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	148.3		
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	135.6		
	WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000152274	292.7		
	WSWG	D31	DT	APP	VALDOSTA, GA	BLANK0000149841	340.6		
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	181.0		

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	32057.6	668,055	31706.4	662,566	30409.6	644,966	30402.5	644,353	0.02 0.10

Undesired				Total IX		Unique IX, before		Unique IX, after
WMBP-LD	D31	LD	APP	17.2	1,195	7.1	613	
WIAT	D30	DT	LIC	217.4	7,653	158.5	5,590	158.5 5,590
WGIQ	D30	DT	LIC	86.9	501	47.5	380	47.5 380
WPCH-TV	D31	DT	LIC	291.4	4,384	178.2	2,122	178.2 2,122
WSWG	D31	DT	APP	1.0	24	0.0	0	0.0 0
WGBC	D31	DT	LIC	866.4	8,602	772.2	7,137	762.0 6,555

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Interference to BLANK0000035926 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	201.0 km
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	159.4
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	181.0
	WLMT	D31	DT	LIC	MEMPHIS, TN	BLCDT20050427ABN	342.7

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	18538.9	255,013	18437.4	254,654	17949.6	253,039	17946.6	253,031	0.02 0.00

Undesired				Total IX		Unique IX, before		Unique IX, after
WMBP-LD	D31	LD	APP	11.1	8	3.0	8	
WLBT	D30	DT	LIC	21.1	285	15.1	215	15.1 215
WNCF	D31	DT	LIC	468.7	1,393	443.7	1,293	435.6 1,293
WLMT	D31	DT	LIC	23.0	37	4.0	7	4.0 7

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Interference to BLCDT20071024AAK LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	201.0 km
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	159.4
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	181.0
	WLMT	D31	DT	LIC	MEMPHIS, TN	BLCDT20050427ABN	342.7

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	18014.5	249,231	17922.0	248,962	17429.2	246,853	17428.2	246,853	0.01 0.00

Undesired				Total IX		Unique IX, before		Unique IX, after
WMBP-LD	D31	LD	APP	6.1	0	1.0	0	
WLBT	D30	DT	LIC	11.1	203	7.0	137	7.0 137
WNCF	D31	DT	LIC	483.8	1,850	455.8	1,753	450.7 1,753
WLMT	D31	DT	LIC	26.0	153	2.0	122	2.0 122

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Interference to BLANK0000190566 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGUD-LD	D31	LD	LIC	PASCAGOULA, MS	BLANK0000190566	
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	76.8 km
	W30EZ-D	D30	LD	LIC	PURVIS, MS	BLANK0000157972	109.9
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	209.3

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	1227.7	95,121	1227.7	95,121	1227.7	95,121	1205.7	93,855	1.79 1.33

**Table 1 WMBP-LD TV Study Analysis of Proposal**  
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Undesired	Total IX	Unique IX, before	Unique IX, after
WMBP-LD D31 LD APP 22.0	1,266		22.0 1,266

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Interference to BLANK0000059502 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLOX	D32	DT	LIC	BILOXI, MS	BLANK0000059502	
Undesireds:	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	123.6 km
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	182.3
	WABG-TV	D32	DT	LIC	GREENWOOD, MS	BLCDT20051024ABR	324.6
	WPXL-TV	D33	DT	LIC	NEW ORLEANS, LA	BLANK0000105390	116.4
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	29860.4 1,176,288	29803.7 1,161,352	29763.6 1,160,425	29755.5 1,155,692	0.03 0.41		

Undesired	Total IX	Unique IX, before	Unique IX, after
WMBP-LD D31 LD APP 8.1	4,733		8.1 4,733
WABG-TV D32 DT LIC 2.0	56	2.0 56	2.0 56
WPXL-TV D33 DT LIC 38.1	871	38.1 871	38.1 871

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	
Undesireds:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	9.5 km
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	201.0
	WGUD-LD	D31	LD	LIC	PASCAGOULA, MS	BLANK0000190566	76.8

	Service area	Terrain-limited	IX-free	Percent IX
	8254.6 611,266	8228.2 610,924	8204.0 608,363	0.29 0.42

Undesired	Total IX	Unique IX	Prcnt Unique IX
WEIQ D30 DT LIC 21.2	2,555	18.1 2,498	0.22 0.41
WGBC D31 DT CP 2.0	6	1.0 6	0.01 0.00
WGUD-LD D31 LD LIC 4.0	57	2.0 0	0.02 0.00

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Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMBP-LD	D31	LD	APP	EASTABUTCHIE, MS	WMBP-LD 1059778 1045ft	
Undesireds:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	9.5 km
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	201.0
	WGUD-LD	D31	LD	LIC	PASCAGOULA, MS	BLANK0000190566	76.8

	Service area	Terrain-limited	IX-free	Percent IX
	8254.6 611,266	8228.2 610,924	8204.0 608,363	0.29 0.42

Undesired	Total IX	Unique IX	Prcnt Unique IX
WEIQ D30 DT LIC 21.2	2,555	19.2 2,498	0.23 0.41
WGBC D31 DT LIC 1.0	6	1.0 6	0.01 0.00
WGUD-LD D31 LD LIC 4.0	57	2.0 0	0.02 0.00

**Channel and  
Facility  
Information**

Section	Question	Response
Facility ID	186343	
State	Mississippi	
City	Eastabutchie	
LPD Channel	31	

**Antenna Location  
Data**

Section	Question	Response
<b>Antenna Structure Registration</b>	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1059778
<b>Coordinates (NAD83)</b>	Latitude	30° 41' 17.0" N+
	Longitude	087° 47' 54.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	365.8 meters
	Support Structure Height	342.6 meters
	Ground Elevation (AMSL)	61.0 meters
<b>Antenna Data</b>	Height of Radiation Center Above Ground Level	318.5 meters
	Height of Radiation Center Above Mean Sea Level	379.5 meters
	Effective Radiated Power	4.1 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:	Dielectric
	Model	DLP-8B_
	Rotation	
	Electrical Beam Tilt	1.0
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
<b>Elevation Radiation 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	
	Out-of-Channel Emission Mask:	Full Service