

ENGINEERING EXHIBIT

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

prepared for

Gray Television Licensee, LLC

W31FB-D Eastabutchie, MS

Facility ID 186343

Ch. 31 4.5 kW Nondirectional

Gray Television Licensee, LLC (“Gray”) is the proposed assignee (file# 0000178338) of digital Low Power Television station W31FB-D, Channel 31, Eastabutchie 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# 0000159413) authorizes W31FB-D to relocate to a different site and operate at 5 kW ERP, directional. *Gray* herein seeks a modification of the CP to specify a different transmitting location, increased antenna height, decreased ERP, and use of a nondirectional antenna.

The proposed facility will employ a new antenna system to be side-mounted 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 and 7.4 km (4.6 miles) from the current CP 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 TLP-12A/VP-R having elliptical polarization. The nondirectional ERP is 4.5 kW horizontally polarized and 1.35 kW vertically polarized using a “full service” out of channel emission mask. Figure 1 depicts the 51 dB μ coverage contour of the proposed W31FB-D facility as well as those of the licensed and CP facilities, 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 Class A stations. FCC processing of this proposal is requested using a 0.5 km cell size and 1.0 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 operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 20 percent antenna relative field in downward elevations (pattern data shows less than 20 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the site at two meters above ground level attributable to the proposed facility is $0.1 \mu\text{W}/\text{cm}^2$, which is 0.02 percent of the general population/uncontrolled maximum permitted 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 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, structure, 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.

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, 0.5 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.

Engineering Exhibit
Gray Television Licensee, LLC (W31FB-D)
(page 3 of 3)



List of Attachments

Figure 1 Coverage Contour Comparison
Table 1 TVStudy Analysis of Proposal

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. March 10, 2022
207 Old Dominion Road Yorktown, VA 23692

703-650-9600



prepared for
Gray Television Licensee, LLC

March, 2022

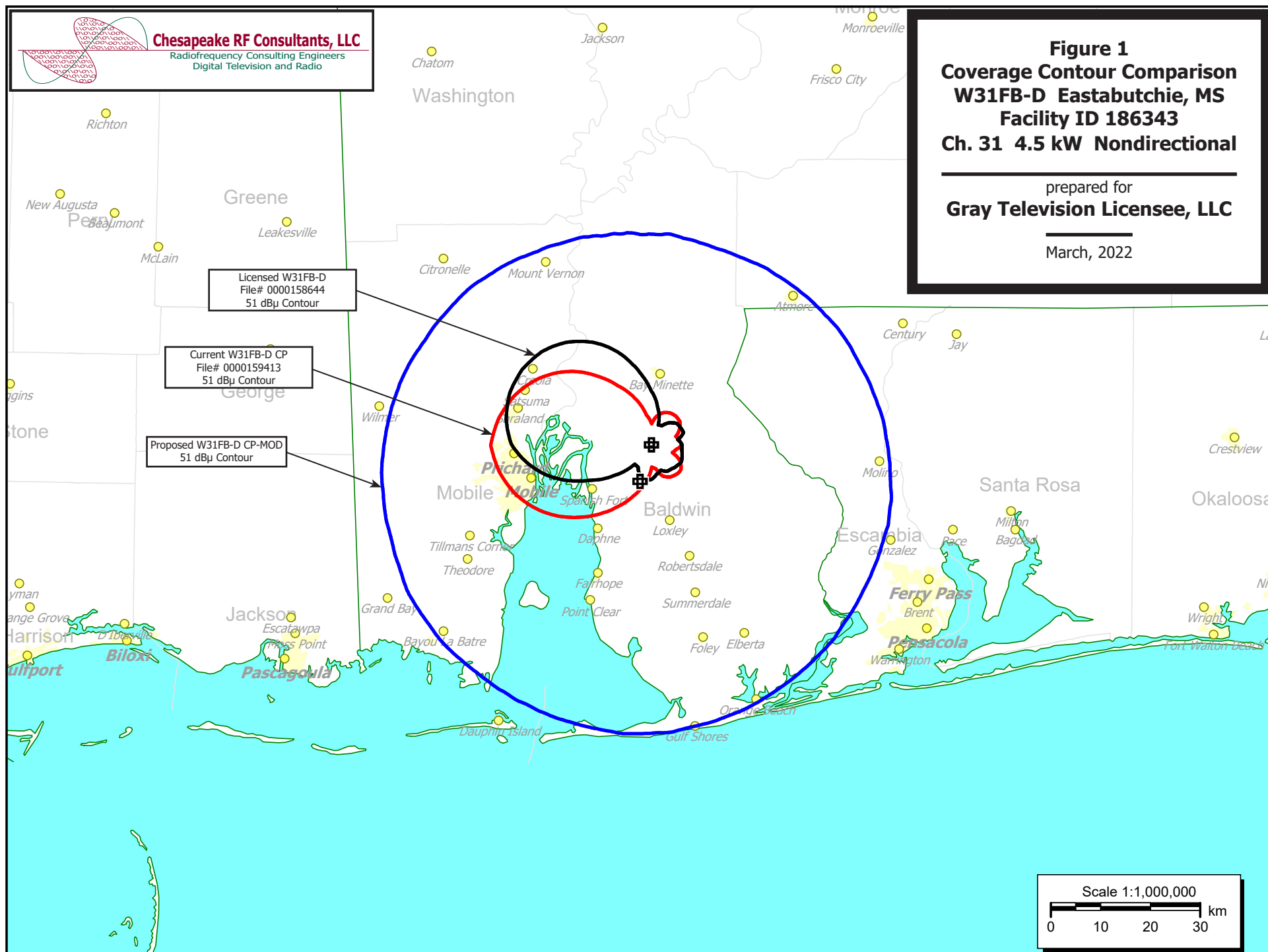


Table 1 W31FB-D TVStudy Analysis of Proposal
(page 1 of 7)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: W31FB-D prop CP-MOD, Model: Longley-Rice
Start: 2022.03.10 09:58:35

Study created: 2022.03.10 09:58:35

Study build station data: LMS TV 2022-03-09

Proposal: W31FB-D D31 LD APP Eastabutchie, MS
File number: W31FB-D prop CP-MOD
Facility ID: 186343
Station data: User record
Record ID: 4243
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	W30CY-D	D30	LD	CP	PONCE DE LEON, FL	BNPDTL20090825AUT	179.4
No	W30EZ-D	D30	LD	LIC	PURVIS, MS	BLANK0000157972	157.9
No	W30EZ-D	D30	LD	CP	PURVIS, MS	BLANK0000158022	164.1
No	WAXC-LD	D31	LD	LIC	ALEXANDER CITY, AL	BLDTL20110329ABN	306.1
No	WSFG-LD	D31	LD	CP	BERRY, AL	BLANK0000029418	334.2
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	CP	PASCAGOULA, MS	BLANK0000054757	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: 365.8 m
HAAT: 0.0 m
Peak ERP: 4.50 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	4.50 kW	315.1 m	50.5 km
45.0	4.50	323.2	50.9
90.0	4.50	325.5	51.0
135.0	4.50	320.2	50.8
180.0	4.50	330.7	51.3

Table 1 W31FB-D TVStudy Analysis of Proposal
(page 2 of 7)



225.0	4.50	323.6	50.9
270.0	4.50	347.7	52.2
315.0	4.50	342.5	51.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 329 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: 0.50 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 BLANK0000111746 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	9.5 km
	WFBD	D29	DT	LIC	DESTIN, FL	BLANK0000131443	118.0
	WIAT	D30	DT	CP	BIRMINGHAM, AL	BLANK0000168868	330.2
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	261.7
	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLDTA20100111AGW	293.7
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	292.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19084.9 1,054,127		18965.0 1,053,078		18739.8 1,046,831		18739.1 1,046,831	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D D31 LD APP		1.2 0				0.7 0	
WFBD D29 DT LIC		115.9 4,797		113.9 4,734		113.7 4,734	
WIAT D30 DT CP		5.9 109		0.2 0		0.2 0	
WGIQ D30 DT LIC		3.2 63		1.0 0		1.0 0	
WLBT D30 DT LIC		108.0 1,450		102.5 1,341		102.5 1,341	

Interference to BLANK0000111746 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	9.5 km
	WFBD	D29	DT	LIC	DESTIN, FL	BLANK0000131443	118.0
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	330.2
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	261.7
	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLDTA20100111AGW	293.7
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	292.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19084.9 1,054,127		18965.0 1,053,078		18735.6 1,046,816		18734.9 1,046,816	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D D31 LD APP		1.2 0				0.7 0	
WFBD D29 DT LIC		115.9 4,797		112.7 4,691		112.4 4,691	
WIAT D30 DT LIC		14.1 248		4.5 15		4.5 15	
WGIQ D30 DT LIC		3.2 63		0.2 0		0.2 0	
WLBT D30 DT LIC		108.0 1,450		101.3 1,323		101.3 1,323	

Table 1 W31FB-D TVStudy Analysis of Proposal
(page 3 of 7)



Interference to BLANK0000111746 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	9.5 km
	WFBD	D29	DD	APP	DESTIN, FL	BLANK0000182313	81.3
	WIAT	D30	DT	CP	BIRMINGHAM, AL	BLANK0000168868	330.2
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	261.7
	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLDTA20100111AGW	293.7
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	292.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19084.9 1,054,127		18965.0 1,053,078		18739.8 1,046,831		18739.1 1,046,831	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D D31 LD APP		1.2 0		0.7 0			
WFBD D29 DD APP		115.9 4,797		113.9 4,734		113.7 4,734	
WIAT D30 DT CP		5.9 109		0.2 0		0.2 0	
WGIQ D30 DT LIC		3.2 63		1.0 0		1.0 0	
WLBT D30 DT LIC		108.0 1,450		102.5 1,341		102.5 1,341	

Interference to BLANK0000111746 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	9.5 km
	WFBD	D29	DD	APP	DESTIN, FL	BLANK0000182313	81.3
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	330.2
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	261.7
	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLDTA20100111AGW	293.7
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	292.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19084.9 1,054,127		18965.0 1,053,078		18735.6 1,046,816		18734.9 1,046,816	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D D31 LD APP		1.2 0		0.7 0			
WFBD D29 DD APP		115.9 4,797		112.7 4,691		112.4 4,691	
WIAT D30 DT LIC		14.1 248		4.5 15		4.5 15	
WGIQ D30 DT LIC		3.2 63		0.2 0		0.2 0	
WLBT D30 DT LIC		108.0 1,450		101.3 1,323		101.3 1,323	

Interference to BLANK0000001319 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	189.1 km
	WIAT	D30	DT	CP	BIRMINGHAM, AL	BLANK0000168868	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
32056.1 667,658		31700.3 663,238		30331.8 643,480		30326.7 643,005	0.02 0.07
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D D31 LD APP		16.1 1,068		5.2 475			
WIAT D30 DT CP		210.4 7,695		144.0 5,447		144.0 5,447	
WGIQ D30 DT LIC		78.5 672		39.6 523		39.6 523	
WPCH-TV D31 DT LIC		287.6 4,135		164.1 2,296		164.1 2,296	
WSWG D31 DT LIC		3.2 24		0.0 0		0.0 0	
WGBC D31 DT CP		973.4 10,606		868.6 8,375		857.7 7,782	

Interference to BLANK0000001319 LIC scenario 2

Table 1 W31FB-D TVStudy Analysis of Proposal
(page 4 of 7)



	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds:	W31FB-D	D31	LD	APP	Eastabuchie, MS	W31FB-D prop CP-MOD	189.1 km
	WIAT	D30	DT	CP	BIRMINGHAM, AL	BLANK0000168868	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
32056.1	667,658	31700.3	663,238	30432.3	644,559	30426.4 644,049	0.02 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
W31FB-D D31 LD APP	16.1 1,068	5.9 510	
WIAT D30 DT CP	210.4 7,695	147.4 5,447	147.4 5,447
WGIQ D30 DT LIC	78.5 672	41.8 523	41.8 523
WPCH-TV D31 DT LIC	287.6 4,135	167.3 2,419	167.3 2,419
WSWG D31 DT LIC	3.2 24	0.0 0	0.0 0
WGBC D31 DT LIC	861.5 9,402	768.1 7,296	758.0 6,738

Interference to BLANK0000001319 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds:	W31FB-D	D31	LD	APP	Eastabuchie, MS	W31FB-D prop CP-MOD	189.1 km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	148.4
	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
32056.1	667,658	31700.3	663,238	30185.6	639,158	30180.4 638,683	0.02 0.07

Undesired	Total IX	Unique IX, before	Unique IX, after
W31FB-D D31 LD APP	16.1 1,068	5.2 475	
WIAT D30 DT LIC	362.4 12,976	290.3 9,769	290.3 9,769
WGIQ D30 DT LIC	78.5 672	39.6 523	39.6 523
WPCH-TV D31 DT LIC	287.6 4,135	160.4 2,074	160.4 2,074
WSWG D31 DT LIC	3.2 24	0.0 0	0.0 0
WGBC D31 DT CP	973.4 10,606	866.9 7,728	856.0 7,135

Interference to BLANK0000001319 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	
Undesireds:	W31FB-D	D31	LD	APP	Eastabuchie, MS	W31FB-D prop CP-MOD	189.1 km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	148.4
	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
32056.1	667,658	31700.3	663,238	30286.3	640,237	30280.4 639,727	0.02 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
W31FB-D D31 LD APP	16.1 1,068	5.9 510	
WIAT D30 DT LIC	362.4 12,976	293.4 9,769	293.4 9,769
WGIQ D30 DT LIC	78.5 672	41.8 523	41.8 523
WPCH-TV D31 DT LIC	287.6 4,135	163.4 2,097	163.4 2,097
WSWG D31 DT LIC	3.2 24	0.0 0	0.0 0
WGBC D31 DT LIC	861.5 9,402	766.2 6,649	756.0 6,091

Interference to BLANK0000001319 LIC scenario 5

Call	Chan	Svc	Status	City, State	File Number	Distance
------	------	-----	--------	-------------	-------------	----------

Table 1 W31FB-D TVStudy Analysis of Proposal
(page 5 of 7)



Desired:	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319		
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	189.1	km
	WIAT	D30	DT	CP	BIRMINGHAM, AL	BLANK0000168868	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
32056.1	667,658	31700.3	663,238	30331.8	643,480	30326.7	643,005	0.02 0.07
Undesired		Total IX		Unique IX, before		Unique IX, after		
W31FB-D	D31 LD APP	16.1	1,068			5.2	475	
WIAT	D30 DT CP	210.4	7,695	144.0	5,447	144.0	5,447	
WGIQ	D30 DT LIC	78.5	672	39.6	523	39.6	523	
WPCH-TV	D31 DT LIC	287.6	4,135	164.1	2,296	164.1	2,296	
WSWG	D31 DT APP	3.2	24	0.0	0	0.0	0	
WGBC	D31 DT CP	973.4	10,606	868.6	8,375	857.7	7,782	

Interference to BLANK0000001319 LIC scenario 6								
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319		
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	189.1	km
	WIAT	D30	DT	CP	BIRMINGHAM, AL	BLANK0000168868	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
32056.1	667,658	31700.3	663,238	30432.3	644,559	30426.4	644,049	0.02 0.08
Undesired		Total IX		Unique IX, before		Unique IX, after		
W31FB-D	D31 LD APP	16.1	1,068			5.9	510	
WIAT	D30 DT CP	210.4	7,695	147.4	5,447	147.4	5,447	
WGIQ	D30 DT LIC	78.5	672	41.8	523	41.8	523	
WPCH-TV	D31 DT LIC	287.6	4,135	167.3	2,419	167.3	2,419	
WSWG	D31 DT APP	3.2	24	0.0	0	0.0	0	
WGBC	D31 DT LIC	861.5	9,402	768.1	7,296	758.0	6,738	

Interference to BLANK0000001319 LIC scenario 7								
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319		
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	189.1	km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	148.4	
	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
32056.1	667,658	31700.3	663,238	30185.6	639,158	30180.4	638,683	0.02 0.07
Undesired		Total IX		Unique IX, before		Unique IX, after		
W31FB-D	D31 LD APP	16.1	1,068			5.2	475	
WIAT	D30 DT LIC	362.4	12,976	290.3	9,769	290.3	9,769	
WGIQ	D30 DT LIC	78.5	672	39.6	523	39.6	523	
WPCH-TV	D31 DT LIC	287.6	4,135	160.4	2,074	160.4	2,074	
WSWG	D31 DT APP	3.2	24	0.0	0	0.0	0	
WGBC	D31 DT CP	973.4	10,606	866.9	7,728	856.0	7,135	

Interference to BLANK0000001319 LIC scenario 8								
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319		

Table 1 W31FB-D TVStudy Analysis of Proposal
(page 6 of 7)



Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	189.1 km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	148.4
	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
32056.1	667,658	31700.3	663,238	30286.3	640,237	30280.4 639,727	0.02 0.08
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D	D31 LD APP	16.1	1,068			5.9	510
WIAT	D30 DT LIC	362.4	12,976	293.4	9,769	293.4	9,769
WGIQ	D30 DT LIC	78.5	672	41.8	523	41.8	523
WPCH-TV	D31 DT LIC	287.6	4,135	163.4	2,097	163.4	2,097
WSWG	D31 DT APP	3.2	24	0.0	0	0.0	0
WGBC	D31 DT LIC	861.5	9,402	766.2	6,649	756.0	6,091
Interference to BLANK0000035926 CP scenario 1							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	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
18546.0	255,013	18436.6	254,649	17931.0	252,964	17927.1 252,956	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D	D31 LD APP	5.9	8			3.9	8
WLBT	D30 DT LIC	18.9	281	9.3	248	9.3	248
WNCF	D31 DT LIC	490.9	1,430	466.3	1,367	464.3	1,367
WLMT	D31 DT LIC	20.9	37	5.3	7	5.3	7
Interference to BLCDT20071024AAK LIC scenario 1							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	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
18020.1	249,208	17922.2	248,929	17397.9	246,902	17394.9 246,902	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D	D31 LD APP	5.2	0			3.0	0
WLBT	D30 DT LIC	13.0	199	5.4	170	5.4	170
WNCF	D31 DT LIC	513.1	1,735	488.7	1,675	486.5	1,675
WLMT	D31 DT LIC	22.9	153	5.8	122	5.8	122
Interference to BLANK0000054757 CP scenario 1							
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGUD-LD	D31	LD	CP	PASCAGOULA, MS	BLANK0000054757	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	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
1228.4	94,283	1228.4	94,283	1228.4	94,283	1210.9 92,590	1.42 1.80
Undesired		Total IX		Unique IX, before		Unique IX, after	

Table 1 W31FB-D TVStudy Analysis of Proposal
(page 7 of 7)



W31FB-D D31 LD APP 17.5 1,693 17.5 1,693

Interference to BLANK0000059502 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLOX	D32	DT	LIC	BILOXI, MS	BLANK0000059502	
Undesireds:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	123.6 km
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	182.3
	WBXH-CD	D32	DC	LIC	BATON ROUGE, LA	BLANK0000059504	202.4
	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
29853.1 1,174,467		29801.5 1,162,443		29758.2 1,159,675		29749.2 1,154,996	0.03 0.40
Undesired		Total IX		Unique IX, before		Unique IX, after	
W31FB-D D31 LD APP		9.0 4,679				9.0 4,679	
WBXH-CD D32 DC LIC		2.2 0		1.2 0		1.2 0	
WABG-TV D32 DT LIC		4.2 56		3.2 56		3.2 56	
WPXL-TV D33 DT LIC		37.8 2,712		37.8 2,712		37.8 2,712	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	
Undesireds:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	9.5 km
	WSFG-LD	D31	LD	CP	BERRY, AL	BLANK0000029418	334.2
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	201.0
	WGUD-LD	D31	LD	CP	PASCAGOULA, MS	BLANK0000054757	76.8
Service area		Terrain-limited		IX-free		Percent IX	
8197.4 609,221		8165.6 608,756		8128.2 606,652		0.46 0.35	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WEIQ D30 DT LIC		29.9 2,097		25.6 2,053		0.31 0.34	
WGBC D31 DT CP		2.0 6		2.0 6		0.02 0.00	
WGUD-LD D31 LD CP		9.7 45		5.5 1		0.07 0.00	

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31FB-D	D31	LD	APP	Eastabutchie, MS	W31FB-D prop CP-MOD	
Undesireds:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	9.5 km
	WSFG-LD	D31	LD	CP	BERRY, AL	BLANK0000029418	334.2
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	201.0
	WGUD-LD	D31	LD	CP	PASCAGOULA, MS	BLANK0000054757	76.8
Service area		Terrain-limited		IX-free		Percent IX	
8197.4 609,221		8165.6 608,756		8129.0 606,652		0.45 0.35	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WEIQ D30 DT LIC		29.9 2,097		25.6 2,053		0.31 0.34	
WGBC D31 DT LIC		1.2 6		1.2 6		0.02 0.00	
WGUD-LD D31 LD CP		9.7 45		5.5 1		0.07 0.00	