

## **ENGINEERING EXHIBIT**

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

**Gray Television Licensee, LLC**  
W30EZ-D Purvis, MS  
Facility ID 186322  
Ch. 30 15 kW Directional

*Gray Television Licensee, LLC* (“Gray”) is the licensee of digital Low Power Television station W30EZ-D, Channel 30, Facility ID 186322, Purvis MS. W30EZ-D is licensed to operate at 0.2 kW effective radiated power (“ERP”) with a directional antenna (file# 0000197965, granted October 11, 2022). *Gray* proposes herein a minor modification Construction Permit to specify relocation of W30EZ-D and use of a different directional antenna at increased height and ERP.

As proposed herein, W30EZ-D will employ an antenna to be side-mounted on the tower structure associated with FCC Antenna Structure Registration number 1263929, located 31.2 km (19.4 miles) from the licensed site. No change to the overall structure height is proposed.

The proposed antenna is a Dielectric model DLP-12B having horizontal polarization. The proposed ERP is 15 kW using a “full service” out of channel emission mask. A plot of the directional antenna’s azimuthal pattern is supplied in Figure 1. Figure 2 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 69<sup>1</sup> shows that the proposal complies with the FCC’s interference protection requirements toward all digital television, television translator, LPTV, and

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<sup>1</sup>FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 (“OET-69”). This analysis employed the FCC’s current “TVStudy” software with the default application processing template settings, 1 km cell size, and 1.0 km terrain increment. 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. 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 (antenna elevation pattern data shows 20 percent relative field or less for angles 10-90 degrees below the horizontal), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is  $3.3 \mu\text{W}/\text{cm}^2$ , which is 0.9 percent of the general population/uncontrolled maximum permitted 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.

**Engineering Exhibit**  
**Gray Television Licensee, LLC (W30EZ-D)**  
(page 3 of 3)

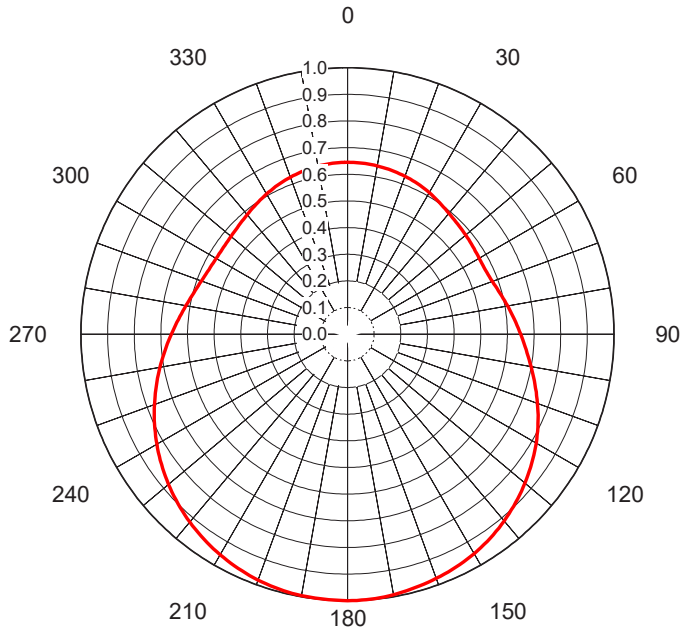


*List of Attachments*

Figure 1	Antenna Azimuthal Pattern
Figure 2	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 9, 2023	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



## AZIMUTH PATTERN Horizontal Polarization

Proposal No. **20230913jmd**  
Date **13-Sep-23**  
Call Letters **W30EZ-D**  
Channel **30**  
Frequency **569 MHz**  
Antenna Type **DLP-12B**  
Gain **1.76 (2.45dB)**  
Calculated

Pattern Number **TLP-B-30 Hpol**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.645	36	0.600	72	0.584	108	0.747	144	0.930	180	1.000	216	0.935	252	0.759	288	0.589
1	0.645	37	0.598	73	0.587	109	0.753	145	0.934	181	1.000	217	0.932	253	0.754	289	0.586
2	0.645	38	0.596	74	0.590	110	0.759	146	0.938	182	0.999	218	0.928	254	0.748	290	0.583
3	0.645	39	0.594	75	0.593	111	0.765	147	0.941	183	0.999	219	0.924	255	0.742	291	0.581
4	0.645	40	0.592	76	0.596	112	0.771	148	0.944	184	0.999	220	0.920	256	0.737	292	0.579
5	0.644	41	0.590	77	0.600	113	0.777	149	0.948	185	0.998	221	0.916	257	0.731	293	0.577
6	0.644	42	0.589	78	0.603	114	0.783	150	0.951	186	0.998	222	0.912	258	0.726	294	0.575
7	0.643	43	0.587	79	0.607	115	0.789	151	0.954	187	0.998	223	0.908	259	0.720	295	0.574
8	0.643	44	0.586	80	0.610	116	0.795	152	0.956	188	0.997	224	0.904	260	0.714	296	0.573
9	0.642	45	0.584	81	0.614	117	0.801	153	0.959	189	0.996	225	0.899	261	0.709	297	0.571
10	0.641	46	0.583	82	0.618	118	0.806	154	0.962	190	0.996	226	0.895	262	0.703	298	0.570
11	0.640	47	0.582	83	0.622	119	0.812	155	0.964	191	0.995	227	0.890	263	0.698	299	0.569
12	0.640	48	0.581	84	0.625	120	0.817	156	0.966	192	0.994	228	0.886	264	0.692	300	0.569
13	0.639	49	0.580	85	0.629	121	0.823	157	0.968	193	0.993	229	0.881	265	0.687	301	0.568
14	0.638	50	0.579	86	0.633	122	0.828	158	0.971	194	0.992	230	0.876	266	0.682	302	0.568
15	0.637	51	0.578	87	0.637	123	0.834	159	0.973	195	0.990	231	0.872	267	0.676	303	0.568
16	0.636	52	0.577	88	0.641	124	0.839	160	0.975	196	0.989	232	0.867	268	0.671	304	0.568
17	0.634	53	0.576	89	0.646	125	0.844	161	0.977	197	0.987	233	0.862	269	0.666	305	0.568
18	0.633	54	0.575	90	0.650	126	0.849	162	0.979	198	0.985	234	0.857	270	0.661	306	0.568
19	0.632	55	0.574	91	0.654	127	0.854	163	0.980	199	0.983	235	0.852	271	0.656	307	0.569
20	0.631	56	0.573	92	0.659	128	0.859	164	0.982	200	0.981	236	0.847	272	0.651	308	0.569
21	0.629	57	0.572	93	0.663	129	0.864	165	0.984	201	0.979	237	0.842	273	0.646	309	0.570
22	0.628	58	0.572	94	0.668	130	0.869	166	0.986	202	0.977	238	0.836	274	0.641	310	0.571
23	0.626	59	0.571	95	0.673	131	0.874	167	0.988	203	0.975	239	0.831	275	0.637	311	0.572
24	0.625	60	0.570	96	0.678	132	0.879	168	0.990	204	0.972	240	0.826	276	0.632	312	0.573
25	0.623	61	0.570	97	0.683	133	0.883	169	0.991	205	0.970	241	0.820	277	0.628	313	0.574
26	0.621	62	0.570	98	0.688	134	0.888	170	0.993	206	0.967	242	0.815	278	0.624	314	0.575
27	0.619	63	0.570	99	0.694	135	0.893	171	0.994	207	0.964	243	0.810	279	0.619	315	0.577
28	0.618	64	0.570	100	0.699	136	0.897	172	0.995	208	0.961	244	0.804	280	0.615	316	0.578
29	0.616	65	0.571	101	0.705	137	0.902	173	0.996	209	0.958	245	0.799	281	0.612	317	0.580
30	0.613	66	0.572	102	0.711	138	0.906	174	0.997	210	0.955	246	0.793	282	0.608	318	0.582
31	0.611	67	0.573	103	0.716	139	0.910	175	0.998	211	0.952	247	0.787	283	0.604	319	0.584
32	0.609	68	0.575	104	0.722	140	0.914	176	0.999	212	0.949	248	0.782	284	0.601	320	0.586
33	0.607	69	0.577	105	0.728	141	0.919	177	0.999	213	0.946	249	0.776	285	0.597	321	0.588
34	0.605	70	0.579	106	0.734	142	0.923	178	0.999	214	0.942	250	0.771	286	0.594	322	0.590
35	0.602	71	0.581	107	0.740	143	0.927	179	1.000	215	0.939	251	0.765	287	0.591	323	0.592

**Figure 1**  
**Antenna Azimuthal Pattern**  
**W30EZ-D Purvis, MS**  
**Facility ID 186322**  
**Ch. 30 15 kW Directional**

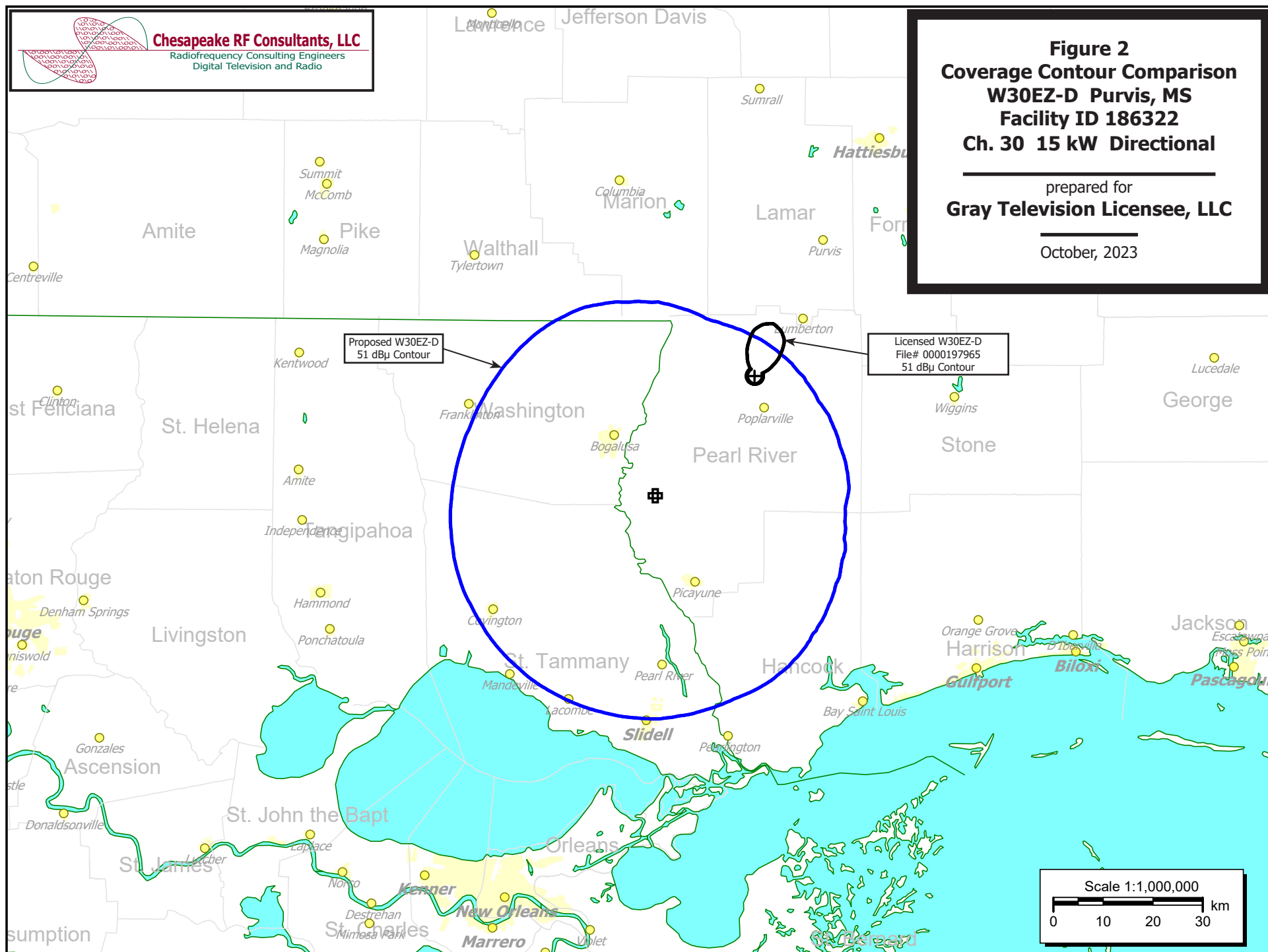
prepared for  
**Gray Television Licensee, LLC**

October, 2023



prepared for  
**Gray Television Licensee, LLC**

October, 2023



# **Table 1 W30EZ-D TVStudy Analysis of Proposal** (page 1 of 4)



tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: W30EZ-D 1263929 prop, Model: Longley-Rice  
Start: 2023.10.06 15:34:02

Study created: 2023.10.06 15:34:01

Study build station data: LMS TV 2023-10-06

Proposal: W30EZ-D D30 LD APP PURVIS, MS  
File number: W30EZ-D 1263929 prop  
Facility ID: 186322  
Station data: User record  
Record ID: 163  
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	WFBD	D29	DD	CP	DESTIN, FL	BLANK0000216432	256.7 km
No	K29LR-D	D29	LD	LIC	BATON ROUGE, LA	BLANK0000103483	150.3
Yes	WVUE-DT	D29	DT	CP	NEW ORLEANS, LA	BLANK0000127677	82.8
Yes	WVUE-DT	D29	DT	LIC	NEW ORLEANS, LA	BLANK0000203686	82.8
No	W29EY-D	D29	LD	LIC	COLUMBIA, MS	BLANK0000125050	65.5
No	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	417.8
No	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	427.3
Yes	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	178.8
No	W30EL-D	D30	LD	LIC	MONTGOMERY, AL	BLANK0000195920	374.0
No	W30EL-D	D30	LD	APP	MONTGOMERY, AL	BLANK0000215013	374.0
No	DDW45DJ-D	D30	LD	APP	PANAMA CITY, FL	BLANK0000123144	384.9
No	K30QG-D	D30	LD	LIC	ALEXANDRIA, LA	BLANK0000086776	263.4
No	WLFT-CD	D30	DC	LIC	BATON ROUGE, LA	BLDTA20110912ACB	128.1
No	K30QV-D	D30	LD	LIC	DERIDDER, LA	BLANK0000194776	332.3
No	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLANK0000189681	154.4
No	KXKW-LD	D30	LD	LIC	LAFAYETTE, LA	BLANK0000166791	214.0
No	K30QB-D	D30	LD	LIC	SHREVEPORT, LA	BLANK0000068681	429.2
No	W30ES-D	D30	LD	LIC	COLUMBUS, MS	BLANK0000196017	340.8
No	W30ES-D	D30	LD	APP	COLUMBUS, MS	BLANK0000202365	340.8
Yes	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	180.2
No	WMBP-LD	D31	LD	LIC	MOBILE, AL	BLANK0000214594	187.7
No	W31EL-D	D31	LD	LIC	BATON ROUGE, LA	BLANK0000157740	132.1
No	KNOV-CD	D31	DC	LIC	NEW ORLEANS, LA	BLANK0000087428	86.2
No	WTBL-LD	D31	LD	LIC	BILOXI, MS	BLANK0000219240	79.6
Yes	WTBL-LD	D31	LD	CP	BILOXI, MS	BLANK0000221026	64.3
No	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	209.3
No	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	209.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30  
Mask: Full Service  
Latitude: 30 40 51.50 N (NAD83)  
Longitude: 89 45 44.70 W  
Height AMSL: 139.7 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: DIE TLP-B 180.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.00

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	6.24 kW	96.1 m	38.7 km
45.0	5.14	96.1	37.7

**Table 1 W30EZ-D TVStudy Analysis of Proposal**  
(page 2 of 4)



90.0	6.34	94.4	38.6
135.0	11.9	107.2	43.2
180.0	15.0	119.4	45.4
225.0	12.1	122.9	44.6
270.0	6.55	117.0	41.1
315.0	5.02	116.0	39.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 109 m

Distance to Canadian border: 1376.2 km

Distance to Mexican border: 874.0 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 51.9 degrees Distance: 590.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.1 degrees Distance: 1745.8 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 BLANK0000127677 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVUE-DT	D29	DT	CP	NEW ORLEANS, LA	BLANK0000127677	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	82.8 km
	WFBD	D29	DD	CP	DESTIN, FL	BLANK0000216432	293.6
	WLFT-CD	D30	DC	LIC	BATON ROUGE, LA	BLDTA20110912ACB	116.3
	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLANK0000189681	89.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25459.1		1,683,186		25457.1		1,607,553	0.33
				24955.9		1,606,900	0.04
Undesired			Total IX		Unique IX, before		Unique IX, after
W30EZ-D D30 LD APP			83.2		653		82.2
WFBD D29 DD CP			6.0		141		5.0
WLFT-CD D30 DC LIC			75.1		6,196		75.1
KFOL-CD D30 DC LIC			420.1		69,253		420.1

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Interference to BLANK0000203686 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVUE-DT	D29	DT	LIC	NEW ORLEANS, LA	BLANK0000203686	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	82.8 km
	WFBD	D29	DD	CP	DESTIN, FL	BLANK0000216432	293.6
	WLFT-CD	D30	DC	LIC	BATON ROUGE, LA	BLDTA20110912ACB	116.3
	KFOL-CD	D30	DC	LIC	HOUMA, LA	BLANK0000189681	89.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24673.2		1,659,211		24672.2		1,582,973	0.28
				24243.3		1,582,326	0.04
Undesired			Total IX		Unique IX, before		Unique IX, after
W30EZ-D D30 LD APP			68.9		647		68.9
WFBD D29 DD CP			5.0		141		5.0
WLFT-CD D30 DC LIC			34.0		1,680		34.0
KFOL-CD D30 DC LIC			389.9		74,374		389.9

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Interference to BLANK0000111746 LIC scenario 1

**Table 1 W30EZ-D TVStudy Analysis of Proposal**  
(page 3 of 4)



	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	178.8 km
	WFBD	D29	DD	CP	DESTIN, FL	BLANK0000216432	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
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	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	0.00 0.00
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Undesired			Total IX	Unique IX, before		Unique IX, after	
W30EZ-D D30 LD APP			2.0	0		0.0	0
WFBD D29 DD CP			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		93.7	752

Interference to BLCDT20100119AEE LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	180.2 km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	362.5
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	292.6
	KLRT-TV	D30	DT	LIC	LITTLE ROCK, AR	BLANK0000149904	347.5
	WLFT-CD	D30	DC	LIC	BATON ROUGE, LA	BLDTA20110912ACB	213.5
	WMC-TV	D30	DT	CP	MEMPHIS, TN	BLANK0000207177	331.7
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	159.4
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	43114.4	948,233	42973.0	946,937	42607.0	941,024	0.30 0.29
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Undesired			Total IX	Unique IX, before		Unique IX, after	
W30EZ-D D30 LD APP			164.6	3,174		128.1	2,709
WIAT D30 DT LIC			79.4	629		22.0	133
WEIQ D30 DT LIC			201.3	2,038		130.5	1,249
KLRT-TV D30 DT LIC			10.0	4		2.0	2
WLFT-CD D30 DC LIC			19.3	84		14.2	82
WMC-TV D30 DT CP			34.9	215		19.9	163
WGBC D31 DT CP			101.6	3,463		76.4	3,322

Interference to BLCDT20100119AEE LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	180.2 km
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLANK0000198139	362.5
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	292.6
	KLRT-TV	D30	DT	LIC	LITTLE ROCK, AR	BLANK0000149904	347.5
	WLFT-CD	D30	DC	LIC	BATON ROUGE, LA	BLDTA20110912ACB	213.5
	WMC-TV	D30	DT	CP	MEMPHIS, TN	BLANK0000207177	331.7
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	159.4
<hr/>							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	43114.4	948,233	42973.0	946,937	42614.0	941,134	0.30 0.29
<hr/>							
Undesired			Total IX	Unique IX, before		Unique IX, after	
W30EZ-D D30 LD APP			164.6	3,174		128.1	2,709
WIAT D30 DT LIC			79.4	629		22.0	133
WEIQ D30 DT LIC			201.3	2,038		130.5	1,249
KLRT-TV D30 DT LIC			10.0	4		2.0	2
WLFT-CD D30 DC LIC			19.3	84		14.2	82
WMC-TV D30 DT CP			34.9	215		19.9	163
WGBC D31 DT LIC			94.5	3,353		69.4	3,212

Interference to BLANK0000221026 CP scenario 1



**Table 1 W30EZ-D TVStudy Analysis of Proposal**  
(page 4 of 4)



	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTBL-LD	D31	LD	CP	BILOXI, MS	BLANK0000221026	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	64.3 km
	WMBP-LD	D31	LD	LIC	MOBILE, AL	BLANK0000214594	123.6
	KNOV-CD	D31	DC	LIC	NEW ORLEANS, LA	BLANK0000087428	127.1
	WGBC	D31	DT	CP	MERIDIAN, MS	BLANK0000035926	182.3
	WLOX	D32	DT	LIC	BILOXI, MS	BLANK0000059502	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
10424.4 403,828		10413.2 403,815		10143.6 400,669		10138.6 400,657	0.05 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W30EZ-D D30 LD APP	7.0 15	5.0 12	
WMBP-LD D31 LD LIC	20.1 412	16.1 363	
KNOV-CD D31 DC LIC	3.0 225	2.0 225	
WGBC D31 DT CP	38.7 736	38.7 736	
WLOX D32 DT LIC	211.9 1,822	207.9 1,773	

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Interference to BLANK0000221026 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTBL-LD	D31	LD	CP	BILOXI, MS	BLANK0000221026	
Undesireds:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	64.3 km
	WMBP-LD	D31	LD	LIC	MOBILE, AL	BLANK0000214594	123.6
	KNOV-CD	D31	DC	LIC	NEW ORLEANS, LA	BLANK0000087428	127.1
	WGBC	D31	DT	LIC	MERIDIAN, MS	BLCDT20071024AAK	182.3
	WLOX	D32	DT	LIC	BILOXI, MS	BLANK0000059502	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
10424.4 403,828		10413.2 403,815		10148.7 400,719		10143.7 400,707	0.05 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W30EZ-D D30 LD APP	7.0 15	5.0 12	
WMBP-LD D31 LD LIC	20.1 412	16.1 363	
KNOV-CD D31 DC LIC	3.0 225	2.0 225	
WGBC D31 DT LIC	33.6 686	33.6 686	
WLOX D32 DT LIC	211.9 1,822	207.9 1,773	

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W30EZ-D	D30	LD	APP	PURVIS, MS	W30EZ-D 1263929 prop	
Undesireds:	WVUE-DT	D29	DT	CP	NEW ORLEANS, LA	BLANK0000127677	82.8 km
	WEIQ	D30	DT	LIC	MOBILE, AL	BLANK0000111746	178.8
	WLFT-CD	D30	DC	LIC	BATON ROUGE, LA	BLDTA20110912ACB	128.1
	WLBT	D30	DT	LIC	JACKSON, MS	BLCDT20100119AEE	180.2
	WTBL-LD	D31	LD	LIC	BILOXI, MS	BLANK0000219240	79.6

Service area	Terrain-limited	IX-free	Percent IX
5308.6 254,926	5293.4 254,907	5274.1 254,843	0.36 0.03

Undesired	Total IX	Unique IX	Prct Unique IX
WEIQ D30 DT LIC	11.1 22	3.0 22	0.06 0.01
WLFT-CD D30 DC LIC	1.0 0	0.0 0	0.00 0.00
WLBT D30 DT LIC	15.3 42	8.2 42	0.15 0.02

**Channel and  
Facility  
Information**

Section	Question	Response
Facility ID	186322	
State	Mississippi	
City	PURVIS	
LPD Channel	30	

Antenna Location  
Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1263929
Coordinates (NAD83)	Latitude	30° 40' 51.5" N+
	Longitude	089° 45' 44.7" W-
	Structure Type	LTOWER-Lattice Tower
	Overall Structure Height	94.8 meters
	Support Structure Height	91.4 meters
	Ground Elevation (AMSL)	59.4 meters
Antenna Data	Height of Radiation Center Above Ground Level	80.3 meters
	Height of Radiation Center Above Mean Sea Level	139.7 meters
	Effective Radiated Power	15 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	1011021
Antenna Manufacturer and Model	Manufacturer:	Dielectric
	Model	DLP-12B
	Rotation	180 degrees
	Electrical Beam Tilt	1.0
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
Elevation Radiation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	
	Out-of-Channel Emission Mask:	Full Service

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	1.000	90	0.661	180	0.645	270	0.650
10	0.996	100	0.615	190	0.641	280	0.699
20	0.981	110	0.583	200	0.631	290	0.759
30	0.955	120	0.569	210	0.613	300	0.817
40	0.920	130	0.571	220	0.592	310	0.869
50	0.876	140	0.586	230	0.579	320	0.914
60	0.826	150	0.607	240	0.570	330	0.951
70	0.771	160	0.627	250	0.579	340	0.975
80	0.714	170	0.640	260	0.610	350	0.993

Additional Azimuths

Degree	V <sub>A</sub>
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