

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WGBP WITH DTS1 MCI, Model: Longley-Rice
Start: 2022.07.12 16:20:09

Study last edited: 2022.07.12 16:20:05

Proposal: WGBP-TV D17 DD LIC OPELIKA, AL
File number: WGBP WITH DTS1 MCI
Facility ID: 11113
Station data: User record
Record ID: 105
Country: U.S.
Zone: II
Ref. lat.: 32 30 38.00 N
Ref. long.: 84 46 36.00 W
DTS sites: 2

Proposal "before": WGBP-TV D17 DT BL OPELIKA, AL
File number: DTVBL11113
Facility ID: 11113
Station data: LMS TV 2022-07-11
Record ID: DTVBL11113
Country: U.S.

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WPXA-TV	D16		DT LIC	ROME, GA	BLANK0000081827	200.7 km
WAAY-TV	D17		DT LIC	HUNTSVILLE, AL	BLANK0000163425	296.1
WJMY-CD	D17		DC LIC	TUSCALOOSA, AL	BLANK0000086812	265.1
WEAR-TV	D17		DT LIC	PENSACOLA, FL	BLANK0000121008	343.9
WHNS	D17		DT LIC	GREENVILLE, SC	BLANK0000190316	354.3
WBMM	D18		DT LIC	TUSKEGEE, AL	BLANK0000081490	120.3
WUVG-DT	D18		DT LIC	ATHENS, GA	BLANK0000081094	149.8

Record parameters as studied, DTS site # 1:

Channel: D17
Latitude: 32 19 16.40 N (NAD83)
Longitude: 84 47 28.20 W
Height AMSL: 656.0 m
HAAT: 537.0 m
Peak ERP: 550 kW
Antenna: MCI PANEL 13.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	339 kW	552.4 m	112.1 km
45.0	446	521.4	112.6
90.0	265	507.5	106.7
135.0	1.02	510.5	65.0
180.0	0.055	526.4	47.9
225.0	0.055	551.2	48.4
270.0	34.4	562.0	92.8
315.0	484	546.7	115.0

Database HAAT does not agree with computed HAAT
Database HAAT: 537 m Computed HAAT: 535 m

ERP exceeds maximum
ERP: 550 kW ERP maximum: 430 kW

Record parameters as studied, DTS site # 2:

Channel: D17
Latitude: 32 51 6.80 N (NAD83)

Longitude: 84 42 5.50 W
Height AMSL: 680.0 m
HAAT: 424.0 m
Peak ERP: 589 kW
Antenna: ERI-ETU6U8-ESP2C-17 (ID 1007081) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 2.00

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	416 kW	419.8 m	103.6 km
45.0	396	415.1	102.8
90.0	368	414.5	102.0
135.0	16.0	449.9	80.7
180.0	4.77	434.4	72.2
225.0	5.32	431.1	72.7
270.0	42.9	353.8	81.1
315.0	482	429.4	106.0

Database HAAT does not agree with computed HAAT
Database HAAT: 424 m Computed HAAT: 419 m

**DTS proposal has coverage outside reference facility and distance limit

Distance to Canadian border: 996.9 km

Distance to Mexican border: 1371.4 km

Conditions at FCC monitoring station: Powder Springs GA
DTS site # 1 Bearing: 2.1 degrees Distance: 171.4 km
DTS site # 2 Bearing: 358.9 degrees Distance: 112.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
DTS site # 1 Bearing: 301.2 degrees Distance: 2020.5 km
DTS site # 2 Bearing: 299.7 degrees Distance: 1997.9 km

No land mobile station failures found

Study cell size: 2.00 km
Profile point spacing: 0.50 km

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

Interference to BLANK0000081827 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
221.8 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
200.7	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344
178.4	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278
197.3	W16DS-D	D16	DC	LIC	BIRMINGHAM, AL	BLANK0000080930
219.6	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865
187.0						

399.8	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021
254.7	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650
178.9	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425

Service area		Terrain-limited		IX-free, before		IX-free, after	
Percent New IX							
41234.9	6,587,205	38178.9	6,457,126	37119.0	6,399,894	36963.6	6,369,519
0.47							0.42

Undesired		Total IX	Unique IX, before		Unique IX, after	
WGBP-TV D17 DD LIC	155.5	30,375			155.5	30,375
WAFF D15 DT LIC	354.0	12,058	15.9	412	15.9	412
WTNZ D15 DT LIC	4.0	0	0.0	0	0.0	0
W16DS-D D16 DC LIC	20.1	546	12.0	237	12.0	237
WDMA-CD D16 DC LIC	219.9	24,721	215.9	24,710	215.9	24,710
WSAV-TV D16 DT LIC	16.1	312	12.1	301	12.1	301
WHTN D16 DT LIC	712.4	27,716	366.2	15,962	366.2	15,962
WAAY-TV D17 DT LIC	393.9	14,218	35.8	1,996	35.8	1,996

Interference to BLANK0000163425 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
313.3 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
296.1	W16DS-D	D16	DC	LIC	BIRMINGHAM, AL	BLANK0000080930
141.5	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827
178.9	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650
149.9	WJMY-CD	D17	DC	LIC	TUSCALOOSA, AL	BLANK0000086812
190.9	WKMU	D17	DT	LIC	MURRAY, KY	BLANK0000087481
282.7	WKS0-TV	D17	DT	LIC	SOMERSET, KY	BLANK0000087465
310.8	WEPH	D17	DT	LIC	TUPELO, MS	BLANK0000062855
257.0						

Service area		Terrain-limited		IX-free, before		IX-free, after	
Percent New IX							
34887.6	1,531,377	32981.4	1,448,783	32224.9	1,415,722	32069.1	1,410,983
0.33							0.48

Undesired		Total IX	Unique IX, before		Unique IX, after	
WGBP-TV D17 DT BL	127.9	7,546	59.9	2,328		
WGBP-TV D17 DD LIC	407.7	15,154			215.7	7,067
W16DS-D D16 DC LIC	4.0	199	0.0	0	0.0	0
WPXA-TV D16 DT LIC	131.7	3,155	103.8	2,295	24.0	940
WHTN D16 DT LIC	56.4	1,403	56.4	1,403	56.4	1,403
WJMY-CD D17 DC LIC	252.4	13,264	124.1	5,870	108.1	4,903
WKMU D17 DT LIC	16.1	410	12.1	218	12.1	218
WKS0-TV D17 DT LIC	16.1	342	12.1	150	12.1	150
WEPH D17 DT LIC	336.0	16,405	223.8	11,770	211.7	11,622

Interference to BLANK0000086812 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WJMY-CD	D17	DC	LIC	TUSCALOOSA, AL	BLANK0000086812
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
271.0 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
265.1	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425
190.9	WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLANK0000121008
289.5	WEPH	D17	DT	LIC	TUPELO, MS	BLANK0000062855
161.5						

Service area	Terrain-limited	IX-free, before	IX-free, after
Percent New IX			
7925.3 259,498	7669.1 254,631	7357.5 248,807	7357.5 248,807
0.00			0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WGBP-TV D17 DT BL	4.0 302	0.0 0	
WGBP-TV D17 DD LIC	12.0 302		0.0 0
WAAY-TV D17 DT LIC	127.9 2,274	76.0 337	72.0 337
WEAR-TV D17 DT LIC	4.0 701	0.0 0	0.0 0
WEPH D17 DT LIC	235.7 5,487	183.7 3,550	183.7 3,550

Interference to BLANK0000121008 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLANK0000121008
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
330.5 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
343.9	WMAH-TV	D16	DT	LIC	BILOXI, MS	BLEDT20110404AGM
125.3	WJMY-CD	D17	DC	LIC	TUSCALOOSA, AL	BLANK0000086812
289.5	WUPL	D17	DT	LIC	SLIDELL, LA	BLANK0000112386
242.9	WMPV-TV	D18	DT	LIC	MOBILE, AL	BLANK0000116724
3.6						

Service area	Terrain-limited	IX-free, before	IX-free, after
Percent New IX			
47720.8 1,520,973	47550.0 1,520,138	46908.3 1,512,463	46920.2 1,512,479
-0.00			-0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WGBP-TV D17 DT BL	11.9 16	11.9 16	
WGBP-TV D17 DD LIC	0.0 0		0.0 0
WMAH-TV D16 DT LIC	546.4 7,092	399.0 6,175	399.0 6,175
WUPL D17 DT LIC	218.8 1,484	71.4 567	71.4 567
WMPV-TV D18 DT LIC	12.0 0	12.0 0	12.0 0

Interference to BLANK0000190316 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000190316

Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
373.0 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
354.3	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827
203.9	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481
147.3	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425
354.3	WKSO-TV	D17	DT	LIC	SOMERSET, KY	BLANK0000087465
292.7	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682
380.2	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941
371.1	WVVA	D17	DT	LIC	BLUEFIELD, WV	BLANK0000087309
266.9	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908
177.1	WPXK-TV	D18	DT	LIC	JELICO, TN	BLANK0000081463
145.9						

	Service area		Terrain-limited		IX-free, before		IX-free, after	
Percent New IX								
42319.4	2,549,610	36162.8	2,288,348	35857.6	2,274,725	35790.0	2,272,749	0.19
0.09								

Undesired				Total IX	Unique IX, before	Unique IX, after
WGBP-TV D17 DT BL	39.8			1,611	39.8	1,611
WGBP-TV D17 DD LIC	115.3			3,755		107.4
WAPK-CD D16 DC LIC	4.0			364	0.0	0.0
WAAY-TV D17 DT LIC	24.0			168	11.9	4.0
WKSO-TV D17 DT LIC	36.2			364	20.1	20.1
WRAL-TV D17 DT LIC	64.4			4,900	32.3	32.3
WTAT-TV D17 DT LIC	15.9			393	8.0	8.0
WVVA D17 DT LIC	144.9			9,093	108.7	108.7
WCCB D18 DT LIC	32.3			1,575	20.2	20.2
WPXK-TV D18 DT LIC	12.1			22	4.0	4.0

Interference to BLANK0000190316 LIC scenario 2

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000190316
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
373.0 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
354.3	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827
203.9	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481
147.3	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425
354.3	WKSO-TV	D17	DT	LIC	SOMERSET, KY	BLANK0000087465
292.7	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682
380.2	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941
371.1	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000127491
266.9	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908

177.1	WPXK-TV	D18	DT	LIC	JELLICO, TN	BLANK0000081463		
145.9								
Service area		Terrain-limited		IX-free, before		IX-free, after		
Percent New IX								
42319.4	2,549,610	36162.8	2,288,348	35837.5	2,274,014	35769.9	2,272,038	0.19
0.09								
Undesired		Total IX		Unique IX, before		Unique IX, after		
WGBP-TV D17 DT BL	39.8	1,611	39.8	1,611				
WGBP-TV D17 DD LIC	115.3	3,755			107.4	3,587		
WAPK-CD D16 DC LIC	4.0	364	0.0	0	0.0	0		
WAAY-TV D17 DT LIC	24.0	168	11.9	168	4.0	0		
WKSO-TV D17 DT LIC	36.2	364	20.1	0	20.1	0		
WRAL-TV D17 DT LIC	64.4	4,900	28.2	976	28.2	976		
WTAT-TV D17 DT LIC	15.9	393	8.0	81	8.0	81		
WVVA D17 DT CP	169.0	9,857	128.8	5,693	128.8	5,693		
WCCB D18 DT LIC	32.3	1,575	20.2	1,227	20.2	1,227		
WPXK-TV D18 DT LIC	12.1	22	4.0	22	4.0	22		

Interference to BLANK0000081490 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WBMM	D18	DT	LIC	TUSKEGEE, AL	BLANK0000081490
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
112.1 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
120.3	WZDX	D18	DT	LIC	HUNTSVILLE, AL	BLANK0000108705
301.6	WMPV-TV	D18	DT	LIC	MOBILE, AL	BLANK0000116724
226.1	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094
244.5	WIYC	D19	DT	LIC	TROY, AL	BLANK0000120197
1.1						

Service area		Terrain-limited		IX-free, before		IX-free, after		
Percent New IX								
17665.9	562,284	17606.0	562,015	17147.8	554,385	17188.1	554,589	-0.24
-0.04								
Undesired		Total IX		Unique IX, before		Unique IX, after		
WGBP-TV D17 DT BL	173.4	3,724	64.5	562				
WGBP-TV D17 DD LIC	92.6	3,353			24.2	358		
WZDX D18 DT LIC	4.0	13	0.0	0	0.0	0		
WMPV-TV D18 DT LIC	39.7	451	23.8	300	23.8	300		
WUVG-DT D18 DT LIC	281.4	4,457	160.7	1,157	201.1	1,324		
WIYC D19 DT LIC	84.5	2,298	84.5	2,298	84.5	2,298		

Interference to BLANK0000081094 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094
Undesireds:	WGBP-TV	D17	DT	BL	OPELIKA, AL	DTVBL11113
170.5 km	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
149.8	WZDX	D18	DT	LIC	HUNTSVILLE, AL	BLANK0000108705

226.4									
	WBMM	D18	DT	LIC	TUSKEGEE, AL			BLANK0000081490	
244.5									
	WCCB	D18	DT	LIC	CHARLOTTE, NC			BLANK0000097908	
367.8									
	WPXK-TV	D18	DT	LIC	JELICO, TN			BLANK0000081463	
247.0									
	Service area				Terrain-limited			IX-free, before	IX-free, after
	Percent New IX								
	33723.7	6,029,495	32358.2	5,973,259	31558.7	5,922,031	30734.8	5,907,755	2.61
	0.24								
	Undesired				Total IX			Unique IX, before	Unique IX, after
	WGBP-TV D17 DT BL	72.1			10,540			40.1	6,940
	WGBP-TV D17 DD LIC	920.0			25,463			864.0	21,216
	WZDX D18 DT LIC	507.9			22,825			347.8	13,399
	WBMM D18 DT LIC	104.2			5,464			40.0	1,411
	WCCB D18 DT LIC	80.0			3,301			64.0	2,585
	WPXK-TV D18 DT LIC	235.6			21,148			123.5	15,061

Interference to proposal scenario 1
5.50% interference received

Distance	Call	Chan	Svc	Status	City, State	File Number
Desired:	WGBP-TV	D17	DD	LIC	OPELIKA, AL	WGBP WITH DTS1 MCI
Undesireds:	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865
109.7 km	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425
296.1	WJMY-CD	D17	DC	LIC	TUSCALOOSA, AL	BLANK0000086812
265.1	WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLANK0000121008
343.9	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000190316
354.3	WBMM	D18	DT	LIC	TUSKEGEE, AL	BLANK0000081490
120.3	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094
149.8						

	Service area		Terrain-limited		IX-free		Percent IX
	31888.7	1,611,542	31672.1	1,606,378	31223.5	1,518,077	1.42 5.50
	Undesired			Total IX		Unique IX	Prcnt Unique IX
	WDMA-CD D16 DC LIC	116.2		43,129	104.2	42,520	0.33 2.65
	WAAY-TV D17 DT LIC	71.8		886	63.8	838	0.20 0.05
	WJMY-CD D17 DC LIC	8.0		101	4.0	55	0.01 0.00
	WEAR-TV D17 DT LIC	32.2		299	16.1	290	0.05 0.02
	WHNS D17 DT LIC	28.0		669	16.0	60	0.05 0.00
	WBMM D18 DT LIC	92.7		339	80.7	332	0.25 0.02
	WUVG-DT D18 DT LIC	131.7		43,542	131.7	43,542	0.42 2.71