tvstudy v2.2.2
Database: localhost, Study: WBMM-P3, Model: Longley-Rice
Start: 2017.05.21

Study created: 2017.05.21

Study build station data: LMS TV 2017-05-16 (6)

```
    Proposal: WBMM-P3 D18 DT APP TUSKEGEE, AL
 File number: WBMM-P3
 Facility ID: 68427
Station data: User record
   Record ID: 223
     Country: U.S.
        Zone: III
```

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WJMY-CD	D17	DC	BL	DEMOPOLIS, AL	DTVBL30283	186.0 km
WLGA	D17	DT	BL	OPELIKA, AL	DTVBL11113	112.1
WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLCDT20050627AAK	228.5
WZDX	D18	DT	BL	HUNTSVILLE, AL	DTVBL28119	301.6
WMPV-TV	D18	DT	BL	MOBILE, AL	DTVBL60827	226.1
WJXT	D18	DT	BL	JACKSONVILLE, FL	DTVBL53116	462.8
WUVG-DT	D18	DT	BL	ATHENS, GA	DTVBL48813	244.5
WMAU-TV	D18	DT	LIC	BUDE, MS	BLEDT20090327ABW	460.9
WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	184.5
WIYC	D19	DT	BL	TROY, AL	DTVBL62207	1.0
WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLCDT20060113ACO	244.5
WTLH	D19	DT	BL	BAINBRIDGE, GA	DTVBL23486	242.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D18
   Latitude:  32  4  5.50 N (NAD83)
  Longitude:  85 56 40.80 W
Height AMSL: 463.8 m
       HAAT: 337.0 m
   Peak ERP: 52.0 kW
    Antenna: DIE-TLP-12C 0.0 deg
```

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	52.0 kW	360.7 m	82.9 km
45.0	40.5	362.3	81.3
90.0	15.6	325.3	72.1
135.0	8.03	321.4	68.0
180.0	14.4	334.5	72.3
225.0	8.96	322.0	68.7
270.0	18.1	320.3	72.6
315.0	42.2	352.0	80.6

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1106.5 km

Distance to Mexican border: 1262.8 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 29.4 degrees   Distance: 229.6 km
ERP: 46.7 kW   Field strength: 10.6 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 302.8 degrees   Distance: 1943.4 km

No land mobile station failures found

Study cell size: 2.00 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%

Interference to DTVBL30283 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL11113 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLGA	D17	DT	BL	OPELIKA, AL	DTVBL11113	

Undesireds:	WBMM	D18	DT	BL	TUSKEGEE, AL	DTVBL68427	112.1 km
	WBMM-P3	D18	DT	APP	TUSKEGEE, AL	WBMM-P3	112.1
	WDMA-CD	D16	DC	BL	MACON, GA	DTVBL21150	119.7
	WJMY-CD	D17	DC	BL	DEMOPOLIS, AL	DTVBL30283	270.5
	WAAY-TV	D17	DT	BL	HUNTSVILLE, AL	DTVBL57292	313.2
	WFXU	D17	DT	BL	LIVE OAK, FL	DTVBL22245	259.2
	WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLCDT20050627AAK	330.5
	WHNS	D17	DT	BL	GREENVILLE, SC	DTVBL72300	373.0
	WUVG-DT	D18	DT	BL	ATHENS, GA	DTVBL48813	170.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33795.8	949,885	33559.5	944,189	32503.4	920,937	32531.7	921,046	-0.09	-0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WBMM D18 DT BL	448.1	4,615	314.9	3,242		
WBMM-P3 D18 DT APP	415.8	4,504			286.6	3,133
WDMA-CD D16 DC BL	4.0	2	0.0	0	0.0	0
WJMY-CD D17 DC BL	8.0	8	0.0	0	0.0	0
WAAY-TV D17 DT BL	131.8	5,300	71.9	1,742	71.9	1,742
WEAR-TV D17 DT LIC	309.7	2,226	172.5	853	176.5	855
WHNS D17 DT BL	239.8	10,461	159.9	5,644	159.9	5,644
WUVG-DT D18 DT BL	155.6	8,539	115.7	5,573	115.7	5,573

Interference to BLCDT20050627AAK LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL28119 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WZDX	D18	DT	BL	HUNTSVILLE, AL	DTVBL28119	
Undesireds:	WBMM	D18	DT	BL	TUSKEGEE, AL	DTVBL68427	301.6 km
	WBMM-P3	D18	DT	APP	TUSKEGEE, AL	WBMM-P3	301.6
	WJMY-CD	D17	DC	BL	DEMOPOLIS, AL	DTVBL30283	209.2
	WAAY-TV	D17	DT	BL	HUNTSVILLE, AL	DTVBL57292	0.0
	KVTJ-DT	D18	DT	BL	JONESBORO, AR	DTVBL2784	375.0
	WUVG-DT	D18	DT	BL	ATHENS, GA	DTVBL48813	226.4
	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	258.8
	WPXK-TV	D18	DT	BL	JELLICO, TN	DTVBL52628	273.8
	WHNT-TV	D19	DT	LIC	HUNTSVILLE, AL	BLCDT20111118COZ	0.2
	WPDP-CD	D19	DC	BL	CLEVELAND, TN	DTVBL52078	179.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36032.9	1,559,005	33912.3	1,478,735	32627.7	1,427,322	32627.7	1,427,322	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WBMM D18 DT BL	72.1	6,084	8.0	441		
WBMM-P3 D18 DT APP	56.0	4,980			8.0	441
KVTJ-DT D18 DT BL	4.0	291	4.0	291	4.0	291
WUVG-DT D18 DT BL	787.8	33,605	471.7	18,895	483.7	19,740
WKYU-TV D18 DT LIC	84.5	2,570	24.1	163	24.1	163
WPXK-TV D18 DT BL	552.1	25,153	211.8	9,610	211.8	9,610
WHNT-TV D19 DT LIC	204.8	5,228	200.8	5,123	200.8	5,123

Interference to DTVBL60827 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMPV-TV	D18	DT	BL	MOBILE, AL	DTVBL60827	
Undesireds:	WBMM	D18	DT	BL	TUSKEGEE, AL	DTVBL68427	226.1 km
	WBMM-P3	D18	DT	APP	TUSKEGEE, AL	WBMM-P3	226.1
	WEAR-TV	D17	DT	LIC	PENSACOLA, FL	BLCDT20050627AAK	3.6
	WMAU-TV	D18	DT	LIC	BUDE, MS	BLEDT20090327ABW	311.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33334.2	1,395,611	33278.4	1,395,036	32394.7	1,389,289	32394.7	1,389,289	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WBMM D18 DT BL	11.9	24	7.9	23		
WBMM-P3 D18 DT APP	7.9	23			7.9	23
WEAR-TV D17 DT LIC	533.3	3,468	529.3	3,468	529.3	3,468
WMAU-TV D18 DT LIC	346.5	2,256	338.5	2,255	342.5	2,256

Interference to DTVBL53116 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL48813 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUVG-DT	D18	DT	BL	ATHENS, GA	DTVBL48813	
Undesireds:	WBMM	D18	DT	BL	TUSKEGEE, AL	DTVBL68427	244.5 km
	WBMM-P3	D18	DT	APP	TUSKEGEE, AL	WBMM-P3	244.5
	WLGA	D17	DT	BL	OPELIKA, AL	DTVBL11113	170.5
	WZDX	D18	DT	BL	HUNTSVILLE, AL	DTVBL28119	226.4
	WCCB	D18	DT	BL	CHARLOTTE, NC	DTVBL49157	367.8
	WPXK-TV	D18	DT	BL	JELLICO, TN	DTVBL52628	246.8
	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLCDT20060113ACO	0.0

	WPDP-CD	D19	DC	BL	CLEVELAND, TN	DTVBL52078	149.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29053.5	5,888,275	28011.2	5,823,178	27243.6	5,777,055	27247.6	5,777,122	-0.01	-0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WBMM D18 DT BL		76.1	1,319	20.0	299		
WBMM-P3 D18 DT APP		72.1	1,252			16.0	232
WLGA D17 DT BL		8.0	383	4.0	56	4.0	56
WZDX D18 DT BL		639.7	33,274	443.8	15,828	443.8	15,828
WCCB D18 DT BL		24.0	1,495	20.0	1,375	20.0	1,375
WPXK-TV D18 DT BL		219.8	25,702	67.8	8,872	67.8	8,872
WGCL-TV D19 DT LIC		12.0	1,920	12.0	1,920	12.0	1,920

Interference to BLEDT20090327ABW LIC, scenario 1
Proposal causes no interference.

Interference to BLEDT20090511AHE LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL62207 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIYC	D19	DT	BL	TROY, AL	DTVBL62207	
Undesireds:	WBMM	D18	DT	BL	TUSKEGEE, AL	DTVBL68427	1.0 km
	WBMM-P3	D18	DT	APP	TUSKEGEE, AL	WBMM-P3	1.0
	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	184.1
	WHNT-TV	D19	DT	LIC	HUNTSVILLE, AL	BLCDT20111118COZ	302.5
	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLCDT20060113ACO	245.5
	WTLH	D19	DT	BL	BAINBRIDGE, GA	DTVBL23486	242.4
	WPDP-CD	D19	DC	BL	CLEVELAND, TN	DTVBL52078	363.2
	WABM	D20	DT	BL	BIRMINGHAM, AL	DTVBL16820	177.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
15999.5	526,680	15963.4	526,263	15328.2	521,288	15336.3	521,335	-0.05	-0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
WBMM D18 DT BL		36.2	936	28.1	936		
WBMM-P3 D18 DT APP		28.1	889			20.0	889
WIIQ D19 DT LIC		229.7	1,030	117.0	793	117.0	793
WHNT-TV D19 DT LIC		12.1	0	0.0	0	0.0	0
WGCL-TV D19 DT LIC		342.1	2,294	209.2	1,995	209.2	1,995
WTLH D19 DT BL		220.4	1,167	115.9	867	115.9	867

Interference to BLCDT20060113ACO LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20060113ACO LIC, scenario 2
Proposal causes no interference.

Interference to DTVBL23486 BL, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
1.08% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBMM-P3	D18	DT	APP	TUSKEGEE, AL	WBMM-P3	
Undesireds:	WLGA	D17	DT	BL	OPELIKA, AL	DTVBL11113	112.1 km
	WZDX	D18	DT	BL	HUNTSVILLE, AL	DTVBL28119	301.6
	WMPV-TV	D18	DT	BL	MOBILE, AL	DTVBL60827	226.1
	WUVG-DT	D18	DT	BL	ATHENS, GA	DTVBL48813	244.5
	WIYC	D19	DT	BL	TROY, AL	DTVBL62207	1.0

Service area		Terrain-limited		IX-free		Percent IX	
17665.9	562,284	17633.8	562,123	17316.3	556,056	1.80	1.08

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WLGA D17 DT BL		169.4	2,027	116.9	1,737	0.66	0.31
WZDX D18 DT BL		4.0	11	0.0	0	0.00	0.00
WMPV-TV D18 DT BL		47.7	952	43.7	848	0.25	0.15
WUVG-DT D18 DT BL		152.9	3,177	92.4	2,772	0.52	0.49
WIYC D19 DT BL		8.1	342	4.0	305	0.02	0.05