

Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: 192.168.0.58, Study: W07BN_Ch14_3kW_ALI_Ox4, Model: Longley-Rice
Start: 2020.07.30 11:58:33

Study created: 2020.07.30 11:58:33

Study build station data: LMS TV 2020-07-16

Proposal: W07BN-D D14 LD APP BRUCE, MS
File number: W07BN_Ch14_3kW_ALI_Ox4
Facility ID: 7359
Station data: User record
Record ID: 509
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	208.9 km
No	W14DT-D	D14	LD	CP	MONTGOMERY, AL	BNPDTL20100402ACY	369.4
No	K14OK-D	D14	LD	CP	EL DORADO, AR	BNPDTL20100428ACK	328.9
No	K14SW-D	D14	LD	CP	JONESBORO, AR	BLANK0000071893	207.0
No	KARZ-TV	D14	DT	BL	LITTLE ROCK, AR	DTVBL37005	286.7
No	WFGX	D14	DT	CP	FORT WALTON BEACH, FL	BLANK0000034394	452.4
No	WFGX	D14	DT	LIC	FORT WALTON BEACH, FL	BLANK0000112284	452.4
No	W14EV-D	D14	LD	CP	EVANSVILLE, IN	BNPDTL20090825AXM	426.1
No	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	451.7
No	KNLC	D14	DT	CP	ST. LOUIS, MO	BLANK0000035663	451.7
No	W14EH-D	D14	LD	CP	GREENVILLE, MS	BLANK0000036284	185.6
No	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	259.8
No	W14DV-D	D14	LD	CP	PURVIS, MS	BNPDTL20100510AFA	361.9
No	W40BZ	D14z	LD	CP	TUPELO, MS	BLANK0000054884	75.1
No	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	382.3
Yes	WMC-TV	D14	LD	APP	MEMPHIS, TN	BLANK0000116802	95.7
No	WIIW-LP	N14z	TX	LIC	NASHVILLE, TN	BLANK0000010767	311.3
No	W14EJ-D	D14	LD	CP	SPRING HILL, TN	BNPDTL20100514AIZ	163.9
No	WSSF-LD	D15	LD	LIC	FAYETTE, AL	BLDTL20080626AAG	166.2
No	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	264.8
No	WFXW	D15	DT	LIC	GREENVILLE, MS	BLCDT20090612ACI	145.8
No	W15CG	D15	LD	CP	PONTOTOC, MS	BDFCDTL20130219ABI	43.4
No	W15CG	N15-	TX	LIC	PONTOTOC, MS	BLTTL20050308ABV	43.4
No	WDDY-LD	D15	LD	CP	JACKSON, TN	BNPDTL20100319AEP	148.0
No	WWWN-LP	N15+	TX	LIC	MEMPHIS, TN	BLTTL20111121DBI	97.2
No	W15EA-D	D15	DC	LIC	MEMPHIS, TN	BLANK0000093191	102.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14
Mask: Full Service
Latitude: 34 24 12.00 N (NAD83)
Longitude: 89 24 13.00 W
Height AMSL: 234.7 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: Alive Custom 2x2 0.0 deg
Elev Pattn: Generic

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.671 kW	123.8 m	31.8 km
45.0	0.004	121.1	9.8
90.0	0.009	106.2	11.2
135.0	0.844	92.5	30.0
180.0	3.00	108.6	38.2
225.0	0.919	104.8	31.8
270.0	1.11	94.7	31.7
315.0	2.93	108.6	38.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 108 m

Distance to Canadian border: 996.5 km

Distance to Mexican border: 1182.2 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 96.6 degrees Distance: 434.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 299.1 degrees Distance: 1534.1 km

No land mobile station failures found

Study cell size: 1.00 km
Profile point spacing: 0.10 km

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

Interference to BLANK0000098219 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	
Undesireds:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	208.9 km
	WFGX	D14	DT	CP	FORT WALTON BEACH, FL	BLANK0000034394	319.3
	WSKC-CD	D14	DC	CP	ATLANTA, GA	BLANK0000034530	307.7
	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	309.5
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	269.2
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	159.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	43464.9 1,793,850	42175.9 1,750,810		40963.2 1,694,083		40963.2 1,694,083	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W07BN-D D14 LD APP 2.0	248		0.0 0
WFGX D14 DT CP 341.9	12,412	325.9 12,394	325.9 12,394
WSKC-CD D14 DC CP 1.0	0	0.0 0	0.0 0
WDBD D14 DT LIC 148.4	6,478	134.5 6,474	132.5 6,226
WDSI-TV D14 DT LIC 171.9	4,367	130.8 3,597	130.8 3,597
WAFF D15 DT LIC 604.6	34,244	566.4 33,488	566.4 33,488

Interference to BLANK0000098219 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	
Undesireds:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	208.9 km
	WFGX	D14	DT	CP	FORT WALTON BEACH, FL	BLANK0000034394	319.3
	WSKC-CD	D14	DC	LIC	ATLANTA, GA	BLANK0000080978	307.7
	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	309.5
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	269.2
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	159.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	43464.9 1,793,850	42175.9 1,750,810		40963.2 1,694,083		40963.2 1,694,083	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W07BN-D D14 LD APP	2.0	248		0.0 0
WFGX D14 DT CP	341.9	12,412	325.9 12,394	325.9 12,394
WSKC-CD D14 DC LIC	1.0	0	0.0 0	0.0 0
WDBD D14 DT LIC	148.4	6,478	134.5 6,474	132.5 6,226
WDSI-TV D14 DT LIC	171.9	4,367	130.8 3,597	130.8 3,597
WAFF D15 DT LIC	604.6	34,244	566.4 33,488	566.4 33,488

Interference to BLANK0000098219 LIC scenario 3

Desired:	Call WDBB	Chan D14	Svc DT	Status LIC	City, State BESSEMER, AL	File Number BLANK0000098219	Distance
Undesireds:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	208.9 km
	WFGX	D14	DT	LIC	FORT WALTON BEACH, FL	BLANK0000112284	319.3
	WSKC-CD	D14	DC	CP	ATLANTA, GA	BLANK0000034530	307.7
	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	309.5
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	269.2
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	159.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
43464.9 1,793,850		42175.9 1,750,810		40963.2 1,694,083		40963.2 1,694,083	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W07BN-D D14 LD APP	2.0	248		0.0 0
WFGX D14 DT LIC	341.9	12,412	325.9 12,394	325.9 12,394
WSKC-CD D14 DC CP	1.0	0	0.0 0	0.0 0
WDBD D14 DT LIC	148.4	6,478	134.5 6,474	132.5 6,226
WDSI-TV D14 DT LIC	171.9	4,367	130.8 3,597	130.8 3,597
WAFF D15 DT LIC	604.6	34,244	566.4 33,488	566.4 33,488

Interference to BLANK0000098219 LIC scenario 4

Desired:	Call WDBB	Chan D14	Svc DT	Status LIC	City, State BESSEMER, AL	File Number BLANK0000098219	Distance
Undesireds:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	208.9 km
	WFGX	D14	DT	LIC	FORT WALTON BEACH, FL	BLANK0000112284	319.3
	WSKC-CD	D14	DC	LIC	ATLANTA, GA	BLANK0000080978	307.7
	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	309.5
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	269.2
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	159.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
43464.9 1,793,850		42175.9 1,750,810		40963.2 1,694,083		40963.2 1,694,083	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W07BN-D D14 LD APP	2.0	248		0.0 0
WFGX D14 DT LIC	341.9	12,412	325.9 12,394	325.9 12,394
WSKC-CD D14 DC LIC	1.0	0	0.0 0	0.0 0
WDBD D14 DT LIC	148.4	6,478	134.5 6,474	132.5 6,226
WDSI-TV D14 DT LIC	171.9	4,367	130.8 3,597	130.8 3,597
WAFF D15 DT LIC	604.6	34,244	566.4 33,488	566.4 33,488

Interference to BLANK0000116802 APP scenario 1

Desired:	Call WMC-TV	Chan D14	Svc LD	Status APP	City, State MEMPHIS, TN	File Number BLANK0000116802	Distance
Undesireds:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	95.7 km
	K14SW-D	D14	LD	CP	JONESBORO, AR	BLANK0000071893	113.8
	W15CG	D15	LD	CP	PONTOTOC, MS	BDFCDTL20130219ABI	133.3
	W15EA-D	D15	DC	LIC	MEMPHIS, TN	BLANK0000093191	15.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9480.0 1,272,110		9477.0 1,272,110		9445.3 1,271,984		9443.3 1,271,982	0.02 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W07BN-D D14 LD APP	2.0	2		2.0 2
K14SW-D D14 LD CP	11.9	0	11.9 0	11.9 0

W15EA-D D15 DC LIC 19.9 126 19.9 126 19.9 126

Interference to proposal scenario 1

**MX: 3.46% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	
Undesireds:	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	208.9 km
	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	259.8
	W40BZ	D14z	LD	CP	TUPELO, MS	BLANK0000054884	75.1
	WMC-TV	D14	LD	APP	MEMPHIS, TN	BLANK0000116802	95.7
	W15CG	D15	LD	CP	PONTOTOC, MS	BDFCDTL20130219ABI	43.4

Service area	Terrain-limited	IX-free	Percent IX
2764.2 56,827	2706.5 56,232	2570.1 54,288	5.04 3.46

Undesired	Total IX	Unique IX	Prcnt Unique IX
WDBB D14 DT LIC 39.1 222 13.0	9	0.48	0.02
WDBD D14 DT LIC 20.9 1,075 12.0	1,040	0.44	1.85
W40BZ D14z LD CP 1.0 32 0.0	0	0.00	0.00
WMC-TV D14 LD APP 103.2 741 74.2	557	2.74	0.99
W15CG D15 LD CP 7.1 154 6.0	122	0.22	0.22

Interference to proposal scenario 2

**MX: 3.24% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W07BN-D	D14	LD	APP	BRUCE, MS	W07BN_Ch14_3kW_ALI_Ox4	
Undesireds:	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	208.9 km
	WDBD	D14	DT	LIC	JACKSON, MS	BLANK0000064020	259.8
	W40BZ	D14z	LD	CP	TUPELO, MS	BLANK0000054884	75.1
	WMC-TV	D14	LD	APP	MEMPHIS, TN	BLANK0000116802	95.7

Service area	Terrain-limited	IX-free	Percent IX
2764.2 56,827	2706.5 56,232	2576.2 54,410	4.81 3.24

Undesired	Total IX	Unique IX	Prcnt Unique IX
WDBB D14 DT LIC 39.1 222 13.0	9	0.48	0.02
WDBD D14 DT LIC 20.9 1,075 12.0	1,040	0.44	1.85
W40BZ D14z LD CP 1.0 32 0.0	0	0.00	0.00
WMC-TV D14 LD APP 103.2 741 74.2	557	2.74	0.99