

tvstudy v2.2.2
Database: localhost, Study: WDNI 13.9 KW-D, Model: Longley-Rice
Start: 2017.06.14 16:45:01

Study created: 2017.06.14 16:44:52

Study build station data: LMS TV 2017-06-02 (11)

Proposal: WDNI-CD D16 DC APP INDIANAPOLIS, IN
File number: WDNI 13.9 KW-D
Facility ID: 28199
Station data: User record
Record ID: 462
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WTTK	D15	DT	BL	KOKOMO, IN	DTVBL56526	14.5 km
WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	151.4
WTVO	D16	DT	LIC	ROCKFORD, IL	BLCDT20021024AAS	379.0
WRSP-TV	D16	DT	BL	SPRINGFIELD, IL	DTVBL62009	287.7
WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	164.5
WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	162.4
WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	286.9
WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	415.5
WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	271.6
WHTN	D16	DT	BL	MURFREESBORO, TN	DTVBL11117	414.4
WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	205.2
WALV-CD	D17	DC	BL	INDIANAPOLIS, IN	DTVBL70161	16.8
WKOH	D17	DT	BL	OWENSBORO, KY	DTVBL34205	242.1
WCET	D17	DT	BL	CINCINNATI, OH	DTVBL65666	153.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
Mask: Stringent
Latitude: 39 48 1.15 N (NAD83)
Longitude: 86 4 38.95 W
Height AMSL: 388.5 m
HAAT: 0.0 m
Peak ERP: 13.9 kW
Antenna: SWR-SWEDM16OI/16 (ID 24172) 0.0 deg

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.9 kW	151.6 m	48.8 km
45.0	11.0	130.0	46.2
90.0	6.05	127.3	43.0
135.0	5.17	134.3	42.7
180.0	6.24	137.5	43.8
225.0	5.17	175.1	45.4
270.0	6.05	167.3	45.7
315.0	11.0	154.6	47.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 147 m

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

Distance to Canadian border: 341.4 km

Distance to Mexican border: 1782.3 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 1.8 degrees Distance: 312.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 277.5 degrees Distance: 1628.2 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 DTVBL56526 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WTTK	D15	DT	BL	KOKOMO, IN	DTVBL56526			
Undesireds:	WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	14.5 km		
	WDNI-CD	D16	DC	APP	INDIANAPOLIS, IN	WDNI 13.9 KW-D	14.5		
	WLKY	D14	DT	BL	LOUISVILLE, KY	DTVBL53939	172.0		
	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	327.6		
	WICS	D15	DT	BL	SPRINGFIELD, IL	DTVBL25686	278.3		
	WYYW-CD	D15	DC	LIC	EVANSVILLE, IN	BLDTA20130109AGB	230.7		
	WLCU-CD	D15	DC	BL	CAMPBELLSVILLE, KY	DTVBL8500	292.2		
	WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	165.5		
	WPBM-CD	D15	DC	BL	SCOTTSVILLE, KY	DTVBL30580	339.8		
	W33BY-D	D15	DC	BL	DETROIT, MI	DTVBL25722	382.3		
	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	349.7		
	WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	199.7		
	WQCW	D15	DT	BL	PORTSMOUTH, OH	DTVBL65130	376.7		
	WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	161.5		
	WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	173.7		

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27338.7	2,817,698	27143.1	2,795,808	26061.4	2,760,894	26061.4	2,760,894	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WDNI-CD D16 DC BL	4.0	150	0.0	0		
WDNI-CD D16 DC APP	4.0	150			0.0	0
WICS D15 DT BL	299.4	8,401	239.5	4,320	239.5	4,320
WYYW-CD D15 DC LIC	8.0	110	4.0	0	4.0	0
WXIX-TV D15 DT BL	838.1	30,594	698.7	23,275	698.7	23,275
WOHL-CD D15 DC BL	4.0	807	0.0	0	0.0	0
WQCW D15 DT BL	55.7	2,599	0.0	0	0.0	0
WMYO D16 DT BL	20.0	529	0.0	0	0.0	0

Interference to DTVBL39738 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20021024AAS LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL62009 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL67485 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL34167 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	
Undesireds:	WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	162.4 km
	WDNI-CD	D16	DC	APP	INDIANAPOLIS, IN	WDNI 13.9 KW-D	162.4
	WYYW-CD	D15	DC	LIC	EVANSVILLE, IN	BLDTA20130109AGB	130.5
	WTTK	D15	DT	BL	KOKOMO, IN	DTVBL56526	173.7
	WLCU-CD	D15	DC	BL	CAMPBELLSVILLE, KY	DTVBL8500	119.8
	WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	141.7
	WPBM-CD	D15	DC	BL	SCOTTSVILLE, KY	DTVBL30580	169.8
	WRSP-TV	D16	DT	BL	SPRINGFIELD, IL	DTVBL62009	349.7
	WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	311.4
	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	322.2
	WAPK-CD	D16	DC	BL	BRISTOL VA/KINGSPORT, TN	DTVBL77677	391.0
	WHTN	D16	DT	BL	MURFREESBORO, TN	DTVBL11117	257.2

WALV-CD	D17	DC	BL	INDIANAPOLIS, IN	DTVBL70161	177.8
WKOH	D17	DT	BL	OWENSBORO, KY	DTVBL34205	140.8
WKSO-TV	D17	DT	BL	SOMERSET, KY	DTVBL34222	159.3
WCET	D17	DT	BL	CINCINNATI, OH	DTVBL65666	143.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33460.7 1,983,916	32901.5 1,974,408	32379.9 1,949,656	32379.9 1,949,656	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WDNI-CD D16 DC BL 59.9	7,820	47.9	7,629
WDNI-CD D16 DC APP 59.9	7,820		
WYYW-CD D15 DC LIC 174.0	12,353	166.1	9,830
WLCU-CD D15 DC BL 35.9	412	27.9	338
WXIX-TV D15 DT BL 64.0	1,527	0.0	0
WRSP-TV D16 DT BL 28.1	384	24.1	359
WOSU-TV D16 DT BL 84.1	1,070	64.2	814
WHTN D16 DT BL 79.5	3,134	59.7	512
WCET D17 DT BL 108.0	2,645	40.0	1,017

Interference to DTVBL67001 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20090804ABG LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL66185 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL11117 BL, scenario 1
Proposal causes no interference.

Interference to BLEDT20040206AAA LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL70161 BL, scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WALV-CD	D17	DC	BL	INDIANAPOLIS, IN	DTVBL70161	
Undesireds: WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	16.8 km
WDNI-CD	D16	DC	APP	INDIANAPOLIS, IN	WDNI 13.9 KW-D	16.8
WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	188.4
WKOH	D17	DT	BL	OWENSBORO, KY	DTVBL34205	251.2
WKSO-TV	D17	DT	BL	SOMERSET, KY	DTVBL34222	328.8
WOTV	D17	DT	BL	BATTLE CREEK, MI	DTVBL10212	299.7
WCET	D17	DT	BL	CINCINNATI, OH	DTVBL65666	168.1
WAWV-TV	D18	DT	BL	TERRE HAUTE, IN	DTVBL65247	128.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8747.0 1,789,412	8743.1 1,789,316	8707.3 1,786,570	8707.3 1,786,570	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WDNI-CD D16 DC BL 35.8	2,746	35.8	2,746
WDNI-CD D16 DC APP 35.8	2,746		

Interference to DTVBL34205 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL65666 BL, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
4.09% interference

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WDNI-CD	D16	DC	APP	INDIANAPOLIS, IN	WDNI 13.9 KW-D	
Undesireds: WTTK	D15	DT	BL	KOKOMO, IN	DTVBL56526	14.5 km
WRSP-TV	D16	DT	BL	SPRINGFIELD, IL	DTVBL62009	287.7
WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	164.5

WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	162.4
WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	286.9
WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	271.6
WALV-CD	D17	DC	BL	INDIANAPOLIS, IN	DTVBL70161	16.8

Service area		Terrain-limited		IX-free		Percent IX	
6519.1	1,693,279	6519.1	1,693,279	5116.5	1,624,059	21.52	4.09
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WTTK D15 DT BL	1339.0	68,137	1323.1	67,323	20.30	3.98	
WMYO D16 DT BL	79.5	1,897	63.6	1,083	0.97	0.06	