

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000052798, Model: Longley-Rice

Start: 2018.07.31 13:20:50

Study created: 2018.07.31 13:20:50

Study build station data: LMS TV 2018-07-30

Proposal: W15DJ-D D17 LD APP SISTER BAY, WI

File number: BLANK0000052798

Facility ID: 63062

Station data: User record

Record ID: 50

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WTOM-TV	D16	DT	CP	CHEBOYGAN, MI	BLANK0000034388	219.1 km
No	W16DN-D	D16	LD	CP	TRAVERSE CITY, MI	BNPDTL20100510AGN	122.1
No	WJFW-TV	D16	DT	LIC	RHINELANDER, WI	BLCDT20070222AOP	171.8
No	WIDN-LD	D17	LD	LIC	ROCKFORD, IL	BLANK0000008118	358.8
No	WIDN-LD	D17	LD	CP	ROCKFORD, IL	BLANK0000013332	331.2
No	WYIN	D17	DT	LIC	GARY, IN	BLEDT20040206AAA	433.0
No	WOTV	D17	DT	CP	BATTLE CREEK, MI	BLANK0000034787	323.7
Yes	WCMV	D17	DT	LIC	CADILLAC, MI	BLEDT20050914AAI	168.0
No	WXMI	D17	LD	LIC	GRAND RAPIDS, MI	BLCDT20141105ACV	362.8
Yes	WMNN-LD	D17	LD	APP	LAKE CITY, MI	BLANK0000054262	178.6
No	KSET-LD	D17	LD	APP	MIDLAND, MI	BLANK0000052621	317.1
No	W17DF-D	D17	LD	LIC	MUSKEGON, MI	BLDTL20110215AAG	226.5
No	KQDS-TV	D17	DT	LIC	DULUTH, MN	BLCDT20060707ADN	424.7
No	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	311.0
Yes	WGBD-LD	D17	LD	CP	GREEN BAY, WI	BLANK0000048529	116.3
No	WLAX	D17	DT	LIC	LA CROSSE, WI	BLCDT20081105ABY	374.7
No	WBME-CD	D17	DC	CP	MILWAUKEE, WI	BLANK0000034630	245.6
No	WYTU-LD	D17	LD	LIC	MILWAUKEE, WI	BLDTL20120731ALQ	245.6

No	W17DF-D	D18	LD	APP	MUSKEGON, MI	BLANK0000053433	226.5
No	W30BU	D18+	LD	APP	GREEN BAY, WI	BLANK0000051747	120.5
No	WVTV	D18	DT	LIC	MILWAUKEE, WI	BLCDT20101012ADH	246.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Mask: Full Service
Latitude: 45 14 16.30 N (NAD83)
Longitude: 87 5 28.60 W
Height AMSL: 386.1 m
HAAT: 0.0 m
Peak ERP: 9.36 kW
Antenna: SCA-K723147 (ID 1003062) 35.0 deg
Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.96 kW	209.2 m	44.3 km
45.0	7.85	200.6	48.8
90.0	2.65	206.0	43.5
135.0	1.48	206.0	40.5
180.0	4.05	199.5	45.4
225.0	8.82	195.6	49.1
270.0	1.09	209.1	39.1
315.0	0.010	210.1	15.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 205 m

Proposal 24.04 dBu contour does not cross Canadian border

Distance to Canadian border: 237.6 km

Distance to Mexican border: 2125.5 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 162.3 degrees Distance: 306.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 255.5 degrees Distance: 1581.3 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

Interference to BLEDT20050914AAI LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCMV	D17	DT	LIC	CADILLAC, MI	BLEDT20050914AAI	
Undesireds:	W15DJ-D	D17	LD	APP	SISTER BAY, WI	BLANK0000052798	168.0 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	27749.7	418,689	27004.4	408,969	27004.4	408,969	26545.9 407,895 1.70 0.26
Undesired				Total IX	Unique IX, before	Unique IX, after	
W15DJ-D D17 LD APP		458.5		1,074		458.5 1,074	

Interference to BLANK0000054262 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMNN-LD	D17	LD	APP	LAKE CITY, MI	BLANK0000054262	

Undesireds:	W15DJ-D	D17	LD	APP	SISTER BAY, WI	BLANK0000052798	178.6 km
	WOTV	D17	DT	CP	BATTLE CREEK, MI	BLANK0000034787	186.0
	KSET-LD	D17	LD	APP	MIDLAND, MI	BLANK0000052621	138.5
	WGBD-LD	D17	LD	CP	GREEN BAY, WI	BLANK0000048529	213.5
	W17DF-D	D18	LD	APP	MUSKEGON, MI	BLANK0000053433	123.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
7910.1	117,718	7705.9	115,364	7547.8	111,605	7546.7	111,605	0.01	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
W15DJ-D D17 LD APP		1.0	0			1.0	0
WOTV D17 DT CP		118.8	1,929	106.7	1,285	106.7	1,285
KSET-LD D17 LD APP		50.5	2,465	38.4	1,821	38.4	1,821
WGBD-LD D17 LD CP		1.0	9	1.0	9	1.0	9

Interference to BLANK0000054262 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMNN-LD	D17	LD	APP	LAKE CITY, MI	BLANK0000054262	
Undesireds:	W15DJ-D	D17	LD	APP	SISTER BAY, WI	BLANK0000052798	178.6 km
	WOTV	D17	DT	CP	BATTLE CREEK, MI	BLANK0000034787	186.0
	KSET-LD	D17	LD	APP	MIDLAND, MI	BLANK0000052621	138.5
	W17DF-D	D17	LD	LIC	MUSKEGON, MI	BLDTL20110215AAG	123.0
	WGBD-LD	D17	LD	CP	GREEN BAY, WI	BLANK0000048529	213.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
7910.1	117,718	7705.9	115,364	7527.5	111,534	7526.5	111,534	0.01	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
W15DJ-D D17 LD APP		1.0	0			1.0	0
WOTV D17 DT CP		118.8	1,929	70.3	795	70.3	795
KSET-LD D17 LD APP		50.5	2,465	38.4	1,821	38.4	1,821
W17DF-D D17 LD LIC		56.6	561	20.2	71	20.2	71
WGBD-LD D17 LD CP		1.0	9	1.0	9	1.0	9

Interference to BLANK0000048529 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGBD-LD	D17	LD	CP	GREEN BAY, WI	BLANK0000048529	
Undesireds:	W15DJ-D	D17	LD	APP	SISTER BAY, WI	BLANK0000052798	116.3 km
	WYTU-LD	D16	LD	CP	MILWAUKEE, WI	BLANK0000054829	144.3
	WIDN-LD	D17	LD	LIC	ROCKFORD, IL	BLANK0000008118	246.1
	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	237.0
	WBME-CD	D17	DC	CP	MILWAUKEE, WI	BLANK0000034630	144.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	8884.0	658,435	8873.9	658,074	8833.6	656,992	8787.2 656,502 0.53 0.07
Undesired				Total IX	Unique IX, before	Unique IX, after	
W15DJ-D D17 LD APP				46.4	490	46.4	490
WEAU D17 DT CP				34.3	926	34.3	926
WBME-CD D17 DC CP				6.1	156	6.1	156

Interference to BLANK0000048529 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGBD-LD	D17	LD	CP	GREEN BAY, WI	BLANK0000048529	
Undesireds:	W15DJ-D	D17	LD	APP	SISTER BAY, WI	BLANK0000052798	116.3 km
	WIDN-LD	D17	LD	LIC	ROCKFORD, IL	BLANK0000008118	246.1
	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	237.0
	WBME-CD	D17	DC	CP	MILWAUKEE, WI	BLANK0000034630	144.3
	WYTU-LD	D17	LD	LIC	MILWAUKEE, WI	BLDTL20120731ALQ	144.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	8884.0	658,435	8873.9	658,074	8832.6	656,940	8786.2 656,450 0.53 0.07
Undesired				Total IX	Unique IX, before	Unique IX, after	
W15DJ-D D17 LD APP				46.4	490	46.4	490
WEAU D17 DT CP				34.3	926	34.3	926
WBME-CD D17 DC CP				6.1	156	0.0	0
WYTU-LD D17 LD LIC				7.1	208	1.0	52

Interference to proposal scenario 1
3.01% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15DJ-D	D17	LD	APP	SISTER BAY, WI	BLANK0000052798	
Undesireds:	WEAU	D17	DT	CP	EAU CLAIRE, WI	BLANK0000034098	311.0 km
	WGBD-LD	D17	LD	CP	GREEN BAY, WI	BLANK0000048529	116.3

Service area		Terrain-limited		IX-free		Percent IX	
5624.1	20,800	5620.1	20,650	5582.5	20,028	0.67	3.01

Undesired	Total IX	Unique IX	Prcnt Unique IX
WEAU D17 DT CP	1.0 192	0.0 0	0.00 0.00
WGBD-LD D17 LD CP	37.6 622	36.6 430	0.65 2.08