

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: houghtonlake20d8kwinceltiat60ff, Model: Longley-Rice

Start: 2021.09.08 13:33:18

Study created: 2021.09.08 13:33:18

Study build station data: LMS TV 2021-09-08

Proposal: W20EV-D D20 LD LIC HOUGHTON LAKE, MI

Facility ID: 184808

Station data: User record

Record ID: 1023

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	WXMI	D19	DT	LIC	GRAND RAPIDS, MI	BLANK0000143294	156.6 km
No	W19EZ-D	D19	LD	CP	HOUGHTON LAKE, MI	BLANK0000143600	11.6
No	W19FB-D	D19	LD	LIC	TRAVERSE CITY, MI	BLANK0000158694	84.4
No	W19FB-D	D19	LD	CP	TRAVERSE CITY, MI	BLANK0000150837	84.4
No	WUVI-LD	D20	LD	LIC	Chicago, IL	BLANK0000019528	336.8
No	WWME-CD	D20	DC	LIC	CHICAGO, IL	BLANK0000086882	313.5
No	WFFT-TV	D20	DT	LIC	FORT WAYNE, IN	BLANK0000086952	330.0
No	WTVS	D20	DT	LIC	DETROIT, MI	BLANK0000117036	245.6
Yes	WCMW	D20	DT	LIC	MANISTEE, MI	BLANK0000087364	88.8
No	W20DT-D	D20	LD	CP	VANDERBILT, MI	BLANK0000143604	126.9
Yes	WUWB-LD	D20	LD	LIC	WEST BRANCH, MI	BLDTL20140708ABB	90.5
No	WLFM-LD	D20z	LD	LIC	CLEVELAND, OH	BLANK0000118809	415.1
No	WHA-TV	D20	DT	LIC	MADISON, WI	BLANK0000089074	365.5
No	W20DI-D	D20	LD	CP	TRAVERSE CITY, WI	BLANK0000036242	83.6
No	WZPX-TV	D21	DT	LIC	BATTLE CREEK, MI	BLANK0000087609	168.7
No	WWJ-TV	D21	DT	LIC	DETROIT, MI	BLANK0000125983	245.6
No	W21DQ-D	D21	LD	CP	MIDLAND, MI	BDISDTL20130430ACW	65.8
No	WFUP	D21	DT	LIC	VANDERBILT, MI	BLANK0000087814	126.9

No WKNX-LD N22z TX LIC PINCONNING, MI BLTTL20030714AEI 107.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20
Mask: Full Service
Latitude: 44 4 42.40 N (NAD83)
Longitude: 85 13 17.00 W
Height AMSL: 403.7 m
HAAT: 0.0 m
Peak ERP: 8.00 kW
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 60.0 deg
Elev Pattn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.553 kW	25.3 m	15.7 km
45.0	6.52	50.2	32.8
90.0	3.92	70.6	34.0
135.0	0.068	70.2	14.2
180.0	0.061	57.0	12.6
225.0	0.013	5.3	6.4
270.0	0.025	11.9	7.4
315.0	0.017	-11.7	6.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 35 m

Proposal 24.36 dBu contour does not cross Canadian border

Distance to Canadian border: 232.0 km

Distance to Mexican border: 2135.8 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 200.2 degrees Distance: 174.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 262.1 degrees Distance: 1701.3 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 BLANK0000087364 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCMW	D20	DT	LIC	MANISTEE, MI	BLANK0000087364	
Undesireds:	W20EV-D	D20	LD	LIC	HOUGHTON LAKE, MI		88.8 km
	WWME-CD	D20	DC	LIC	CHICAGO, IL	BLANK0000086882	265.2
	WFFT-TV	D20	DT	LIC	FORT WAYNE, IN	BLANK0000086952	341.5
	WTVS	D20	DT	LIC	DETROIT, MI	BLANK0000117036	312.6
	WHA-TV	D20	DT	LIC	MADISON, WI	BLANK0000089074	281.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
11831.6	106,505	11640.0		103,504	11574.7	102,398	0.03 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after
W20EV-D D20 LD LIC				3.0	0		3.0 0
WWME-CD D20 DC LIC				13.0	223		0.0 0
WFFT-TV D20 DT LIC				25.0	508		1.0 2
WTVS D20 DT LIC				37.1	851		12.1 345
WHA-TV D20 DT LIC				48.1	663		23.1 166

Interference to BLDLTL20140708ABB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUWB-LD	D20	LD	LIC	WEST BRANCH, MI	BLDLTL20140708ABB	
Undesireds:	W20EV-D	D20	LD	LIC	HOUGHTON LAKE, MI		90.5 km
	WTVS	D20	DT	LIC	DETROIT, MI	BLANK00000117036	219.8
	WCMW	D20	DT	LIC	MANISTEE, MI	BLANK00000087364	177.6
	W20DT-D	D20	LD	CP	VANDERBILT, MI	BLANK00000143604	108.5
	W21DQ-D	D21	LD	CP	MIDLAND, MI	BDISDTL20130430ACW	34.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	5119.5	58,900	5019.5	58,614	4927.9	57,625	0.98 0.45
Undesired				Total IX	Unique IX, before	Unique IX, after	
W20EV-D D20 LD LIC		55.2		257		48.2	257
WTVS D20 DT LIC		21.0		29	17.0 29	12.0	29
WCMW D20 DT LIC		2.0		0	2.0 0	0.0	0
W20DT-D D20 LD CP		5.0		0	1.0 0	1.0	0
W21DQ-D D21 LD CP		67.6		960	67.6 960	67.6	960

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20EV-D	D20	LD	LIC	HOUGHTON LAKE, MI		
Undesireds:	W19FB-D	D19	LD	LIC	TRAVERSE CITY, MI	BLANK00000158694	84.4 km
	WCMW	D20	DT	LIC	MANISTEE, MI	BLANK00000087364	88.8
	WUWB-LD	D20	LD	LIC	WEST BRANCH, MI	BLDLTL20140708ABB	90.5
	Service area		Terrain-limited		IX-free	Percent IX	
	1193.5	11,732	1182.5	11,730	1163.4	11,729	1.62 0.01
Undesired				Total IX	Unique IX	Prcnt Unique IX	
WCMW D20 DT LIC		15.1		1	8.0 0	0.68	0.00

WUWB-LD D20 LD LIC	11.1	1	4.0	0	0.34	0.00
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