

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BNPDTL20091211AAU #53, Model: Longley-Rice

Start: 2020.11.18 08:17:16

Study created: 2020.11.18 08:17:15

Study build station data: LMS TV 2020-11-06

Proposal: WVIU-LD D31 LD CP CADILLAC, MI

File number: BNPDTL20091211AAU

Facility ID: 183225

Station data: User record

Record ID: 54

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
Yes	WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	141.2 km
Yes	WXII-LP	D30+	LD	CP	CEDAR, MI	BLANK0000071863	73.8
No	W30ET-D	D30-	LD	LIC	Flint, MI	BLANK0000121598	142.0
No	W30BU	D30+	LD	CP	GREEN BAY, WI	BLANK0000072177	211.9
No	WPXE-TV	D30	DT	LIC	KENOSHA, WI	BLANK0000087614	236.2
No	WFLD	D31	DT	LIC	CHICAGO, IL	BLANK0000055195	312.6
No	W31EZ-D	D31	LD	LIC	CHICAGO, IL	BLANK0000124951	310.2
No	WESV-LD	D31	LD	LIC	CHICAGO, IL	BLANK0000125079	310.2
No	W31DT-D	D31	LD	CP	STERLING - DIXON, IL	BDCCDTL20110726AJF	426.5
No	W31ET-D	D31	LD	CP	FORT WAYNE, IN	BLANK0000074400	352.5
No	WNIT	D31	DT	LIC	SOUTH BEND, IN	BLANK0000087078	288.8
Yes	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	257.0
No	WMKG-CD	D31	DC	LIC	MUSKEGON, MI	BLANK0000107817	127.6
No	WITI	D31	DT	LIC	MILWAUKEE, WI	BLANK0000086971	236.2
No	W31EV-D	D31	LD	CP	WAUSAU, WI	BLANK0000071942	350.2
No	WFQX-TV	D32	DT	LIC	CADILLAC, MI	BLCDDT20091217ACU	0.0
No	WFQX-TV	D32	DT	APP	CADILLAC, MI	BLANK0000035809	0.0
No	WDIV-TV	D32	DT	LIC	DETROIT, MI	BLANK0000121737	252.3

No	WJMN-TV	D32	DT	LIC	ESCANABA, MI	BLANK0000063727	255.3
No	WBWM-LP	N32z	TX	LIC	MOUNT PLEASANT, MI	BLTTTL20001220ABG	77.2
No	WTMJ-TV	D32	DT	LIC	MILWAUKEE, WI	BLANK0000086939	236.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
 Mask: Simple
 Latitude: 44 8 12.00 N (NAD83)
 Longitude: 85 20 33.00 W
 Height AMSL: 732.5 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic
 Elec Tilt: 0.25

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	310.1 m	56.7 km
45.0	15.0	336.0	58.1
90.0	15.0	349.2	58.7
135.0	15.0	352.3	58.9
180.0	15.0	323.9	57.4
225.0	15.0	346.7	58.6
270.0	15.0	352.5	58.9
315.0	15.0	321.3	57.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 337 m

Proposal 25.42 dBu contour does not cross Canadian border

Distance to Canadian border: 232.1 km

Distance to Mexican border: 2133.2 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 196.4 degrees Distance: 177.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 261.7 degrees Distance: 1692.7 km

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 BLANK0000113433 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	
Undesireds:	WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	141.2 km
	WGTU	D29	DT	CP	TRAVERSE CITY, MI	BLANK0000035794	172.4
	WSJV	D30	DT	LIC	ELKHART, IN	BLANK0000124380	283.2
	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	126.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	25675.2	1,476,679	25659.1	1,472,246	25427.3	1,415,451	25422.3	1,415,172	0.02 0.02

Undesired		Total IX	Unique IX, before	Unique IX, after
WVIU-LD D31 LD CP	5.1	279		5.1 279
WSJV D30 DT LIC	3.0	121	2.0 67	2.0 67
WMYD D31 DT LIC	229.7	56,728	228.7 56,674	228.7 56,674

Interference to BLANK0000071863 CP scenario 1

Desired:	Call WXII-LP	Chan D30+	Svc LD	Status CP	City, State CEDAR, MI	File Number BLANK0000071863	Distance
Undesireds:	WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	73.8 km
	WGTU	D29	DT	CP	TRAVERSE CITY, MI	BLANK0000035794	48.1
	WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	204.6
	W30BU	D30+	LD	CP	GREEN BAY, WI	BLANK0000072177	188.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5208.7	145,081	4873.7	142,434	4587.8	139,405	4584.8 139,397	0.07 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WVIU-LD D31 LD CP	23.0 451	3.0 8	
WGTU D29 DT CP	246.3 2,938	244.3 2,938	224.3 2,495
WNEM-TV D30 DT LIC	41.6 91	39.6 91	39.6 91

Interference to BLANK0000071863 CP scenario 2

Desired:	Call WXII-LP	Chan D30+	Svc LD	Status CP	City, State CEDAR, MI	File Number BLANK0000071863	Distance
Undesireds:	WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	73.8 km
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	48.1
	WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	204.6
	W30BU	D30+	LD	CP	GREEN BAY, WI	BLANK0000072177	188.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5208.7	145,081	4873.7	142,434	4830.1	142,341	4808.1 141,890	0.46 0.32

Undesired	Total IX	Unique IX, before	Unique IX, after
WVIU-LD D31 LD CP	23.0 451	22.0 451	
WGTU D29 DT LIC	2.0 2	2.0 2	1.0 2
WNEM-TV D30 DT LIC	41.6 91	41.6 91	41.6 91

Interference to BLANK0000081119 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	
Undesireds:	WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	257.0 km
	WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	126.1
	WNIT	D31	DT	LIC	SOUTH BEND, IN	BLANK0000087078	265.7
	WDTN	D31	DT	CP	DAYTON, OH	BLANK0000082150	316.6
	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	260.5
	WDIV-TV	D32	DT	LIC	DETROIT, MI	BLANK0000121737	4.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21705.8 5,749,759	21692.8 5,749,642	21004.3 5,656,211	21003.3 5,656,211	0.00 0.00
6203.1 534,208	6203.1 534,208	6202.1 534,208	6202.1 534,208	0.00 0.00 (in Cana

Undesired	Total IX	Unique IX, before	Unique IX, after
WVIU-LD D31 LD CP 9.0 3,408	1.0 0		
WNEM-TV D30 DT LIC 674.5 92,211	673.5 92,211	665.5 88,803	
WNIT D31 DT LIC 3.0 106	0.0 0	0.0 0	
WDTN D31 DT CP 6.0 313	3.0 207	3.0 207	
WYTV D31 DT LIC 1.0 10	0.0 0	0.0 0	
WDIV-TV D32 DT LIC 9.0 907	8.0 907	8.0 907	
WDIV-TV D32 DT LIC 1.0 0	1.0 0	1.0 0 (in Canada)	

Interference to BLANK0000081119 LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	
Undesireds: WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	257.0 km
WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	126.1
WNIT	D31	DT	LIC	SOUTH BEND, IN	BLANK0000087078	265.7
WDTN	D31	DT	BL	DAYTON, OH	DTVBL65690	316.6
WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	260.5
WDIV-TV	D32	DT	LIC	DETROIT, MI	BLANK0000121737	4.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21705.8 5,749,759	21692.8 5,749,642	21006.3 5,656,365	21005.3 5,656,365	0.00 0.00
6203.1 534,208	6203.1 534,208	6202.1 534,208	6202.1 534,208	0.00 0.00 (in Cana

Undesired		Total IX	Unique IX, before		Unique IX, after		
WVIU-LD D31 LD CP	9.0	3,408			1.0	0	
WNEM-TV D30 DT LIC	674.5	92,211	673.5	92,211	665.5	88,803	
WNIT D31 DT LIC	3.0	106	0.0	0	0.0	0	
WDTN D31 DT BL	4.0	159	1.0	53	1.0	53	
WYTV D31 DT LIC	1.0	10	0.0	0	0.0	0	
WDIV-TV D32 DT LIC	9.0	907	8.0	907	8.0	907	
WDIV-TV D32 DT LIC	1.0	0	1.0	0	1.0	0	(in Canada)

Interference to proposal scenario 1
6.07% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	
Undesireds:	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	257.0 km
	WMKG-CD	D31	DC	LIC	MUSKEGON, MI	BLANK0000107817	127.6
	WITI	D31	DT	LIC	MILWAUKEE, WI	BLANK0000086971	236.2
	WFQX-TV	D32	DT	LIC	CADILLAC, MI	BLCDT20091217ACU	0.0

Service area	Terrain-limited	IX-free	Percent IX
10600.8	173,232	9994.2	4.65 6.07

Undesired		Total IX	Unique IX		Prcnt Unique IX	
WMYD D31 DT LIC	16.2	505	15.1	473	0.14	0.28
WMKG-CD D31 DC LIC	10.1	88	8.1	44	0.08	0.03
WITI D31 DT LIC	2.0	23	2.0	23	0.02	0.01
WFQX-TV D32 DT LIC	460.7	9,816	459.7	9,804	4.39	5.73

Interference to proposal scenario 2
**MX: 17.52% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVIU-LD	D31	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	
Undesireds:	WMYD	D31	DT	LIC	DETROIT, MI	BLANK0000081119	257.0 km
	WMKG-CD	D31	DC	LIC	MUSKEGON, MI	BLANK0000107817	127.6

WITI	D31	DT	LIC	MILWAUKEE, WI	BLANK0000086971	236.2
WFQX-TV	D32	DT	APP	CADILLAC, MI	BLANK0000035809	0.0

Service area		Terrain-limited		IX-free	Percent IX
10600.8	173,232	10481.2	171,119	9199.0	141,145
					12.23 17.52

Undesired		Total IX		Unique IX	Prcnt Unique IX
WMYD D31 DT LIC	16.2	505	15.1	473	0.14 0.28
WMKG-CD D31 DC LIC	10.1	88	5.1	34	0.05 0.02
WITI D31 DT LIC	2.0	23	2.0	23	0.02 0.01
WFQX-TV D32 DT APP	1260.0	29,444	1254.9	29,390	11.97 17.18