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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: W19DQ_Ch36_Omni_Move_Pre, Model: Longley-Rice
Start: 2019.04.17 19:33:01

Study created: 2019.04.17 19:04:36

Study build station data: LMS TV 2019-04-16

    Proposal: W19DQ-D D36 LD APP TRAVERSE CITY, MI
 File number: W19DQ_Ch36_Omni_Move
 Facility ID: 185195
Station data: User record
   Record ID: 835
     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
No	WKNX-LP	N22z	TX	LIC	PINCONNING, MI	BLTTL20030714AEI	173.4 km
No	WVIU-LD	D35	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	69.7
No	WTOM-TV	D35	DT	LIC	CHEBOYGAN, MI	BLCDT20040420AAI	143.1
No	WOLP-CD	D35	DC	CP	GRAND RAPIDS, MI	BLANK0000027729	227.3
No	WLUC-TV	D35	DT	APP	MARQUETTE, MI	BLANK0000036029	248.8
No	WLUC-TV	D35	DT	LIC	MARQUETTE, MI	BLCDT20040202ALY	248.8
No	WPBN-TV	D35	DT	CP	TRAVERSE CITY, MI	BLANK0000034373	43.7
No	WODR-LD	D35	LD	CP	WAUSAU, WI	BLANK0000052689	192.1
No	WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	394.4
No	WODP-LD	D36	LD	CP	FORT WAYNE, IN	BLANK0000052702	405.5
No	WFFT-TV	D36	DT	LIC	FORT WAYNE, IN	BLCDT20090521AAQ	404.0
No	WJYS	D36	DT	LIC	HAMMOND, IN	BLCDT20100922ABI	356.3
No	WJYS	D36	DT	LIC	HAMMOND, IN	BLCDT20020801ABI	356.4
No	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000034238	351.2
Yes	W36EH-D	D36	LD	CP	GAYLORD, MI	BNPDTL20100223ADH	73.2
No	W36FA-D	D36	LD	LIC	HESPERIA, MI	BLANK0000067768	135.2
No	WUHO-LP	N36+	TX	LIC	KALAMAZOO, MI	BLTTL20060103ABT	272.9
No	WAQP	D36	DT	CP	SAGINAW, MI	BLANK0000034899	209.5
No	WMNT-CD	D36	DC	LIC	TOLEDO, OH	BLANK0000067041	381.7
No	WACY-TV	D36	DT	CP	APPLETON, WI	BLANK0000034873	191.3
No	WZCK-LD	D36	LD	LIC	MADISON-MIDDLETON, WI	BLANK0000017350	360.7
No	WMKE-CD	D36	DC	CP	MILWAUKEE, WI	BLANK0000034620	257.6
No	WMVS	D36	LD	LIC	MILWAUKEE, WI	BLEDT20120921AAO	257.6
No	WLEF-TV	D36	DT	APP	PARK FALLS, WI	BLANK0000035675	387.5
No	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	387.5
No	W36DH	N36-	TX	LIC	WAUPACA, WI	BLTT20060824AAL	263.2
No	W36EI-D	D36	LD	CP	WAUSAU, WI	BNPDTL20100507ACQ	314.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D36
       Mask: Full Service
   Latitude: 44 43 51.10 N (NAD83)
  Longitude: 85 37 20.80 W
Height AMSL: 249.5 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	72.2 m	39.1 km
45.0	15.0	71.1	38.9
90.0	15.0	7.0	29.4
135.0	15.0	-13.8	29.4
180.0	15.0	-18.4	29.4
225.0	15.0	-15.5	29.4
270.0	15.0	-19.7	29.4
315.0	15.0	-20.6	29.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 8 m

Proposal 25.86 dBu contour does not cross Canadian border
Distance to Canadian border: 196.6 km

Distance to Mexican border: 2163.0 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 186.6 degrees Distance: 237.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 259.3 degrees Distance: 1681.7 km

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 BNPDTL20100223ADH CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W36EH-D	D36	LD	CP	GAYLORD, MI	BNPDTL20100223ADH	
Undesireds:	W19DQ-D	D36	LD	APP	TRAVERSE CITY, MI	W19DQ_Ch36_Omni_Move	73.2 km
	WPBN-TV	D35	DT	CP	TRAVERSE CITY, MI	BLANK0000034373	30.1
	WAQP	D36	DT	CP	SAGINAW, MI	BLANK0000034899	186.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2017.2	30,586	1945.6	29,887	1572.4	26,044	1569.3	26,013	0.19	0.12

Undesired	Total IX		Unique IX, before		Unique IX, after	
W19DQ-D D36 LD APP	49.7	690			3.0	31
WPBN-TV D35 DT CP	364.2	3,723	330.9	3,213	300.4	2,944
WAQP D36 DT CP	42.4	630	9.0	120	8.0	113

Interference to proposal scenario 1
10.95% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W19DQ-D	D36	LD	APP	TRAVERSE CITY, MI	W19DQ_Ch36_Omni_Move	
Undesireds:	WVIU-LD	D35	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	69.7 km
	WPBN-TV	D35	DT	CP	TRAVERSE CITY, MI	BLANK0000034373	43.7
	W36EH-D	D36	LD	CP	GAYLORD, MI	BNPDTL20100223ADH	73.2
	W36FA-D	D36	LD	LIC	HESPERIA, MI	BLANK0000067768	135.2
	WAQP	D36	DT	CP	SAGINAW, MI	BLANK0000034899	209.5

Service area		Terrain-limited		IX-free		Percent IX	
3156.4	122,864	2963.2	120,245	2374.1	107,075	19.88	10.95

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WVIU-LD D35 LD CP	107.2	1,632	29.0	779	0.98	0.65
WPBN-TV D35 DT CP	536.7	12,079	429.0	10,523	14.48	8.75
W36EH-D D36 LD CP	17.2	137	0.0	0	0.00	0.00
W36FA-D D36 LD LIC	2.0	15	0.0	0	0.00	0.00

WAQP D36 DT CP	61.9	1,071	20.3	312	0.69	0.26