

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Coleman27d15kwF, Model: Longley-Rice

Start: 2024.02.05 11:20:08

Study created: 2024.02.05 11:20:07

Study build station data: LMS TV 2024-02-05

Proposal: W27ET-D D27 LD APP COLEMAN, MI

Facility ID: 184810

Station data: User record

Record ID: 2089

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	WCMU-TV	D26	DT	LIC	MOUNT PLEASANT, MI	BLEDT20130710ABN	48.9 km
No	WUPW	D26	DT	LIC	TOLEDO, OH	BLANK0000108708	248.8
No	WILC-CD	D27	DC	LIC	SUGAR GROVE, IL	BLANK0000151822	319.0
No	WSOT-LD	D27	LD	LIC	MARION, IN	BLDTL20111212AGP	351.5
No	WNDU-TV	D27	DT	LIC	SOUTH BEND, IN	BLANK0000216314	269.8
No	DDWFHD-LP	N27z	TX	APP	ANN ARBOR, MI	BLTT20000925AAY	175.5
No	W27DQ-D	D27	LD	LIC	ELMHURST, MI	BLANK0000201427	200.2
No	W48CL	D27+	LD	CP	GRAND RAPIDS, MI	BLANK0000195649	120.9
Yes	WADL	D27	DT	LIC	MOUNT CLEMENS, MI	BLANK0000111708	190.7
No	W27DU-D	D27	LD	LIC	TRAVERSE CITY, MI	BLANK0000201475	143.5
No	WOCV-CD	D27	DC	LIC	CLEVELAND, OH	BLANK0000202416	352.8
No	WTTE	D27	DT	LIC	COLUMBUS, OH	BLANK0000129745	441.0
No	WPNM-LD	D27z	LD	LIC	LIEPSIC, OH	BLANK0000090626	293.4
No	WQLN	D27	DT	LIC	ERIE, PA	BLANK0000083708	414.3
No	WVTV	D27	DT	LIC	MILWAUKEE, WI	BLANK0000121792	275.4
No	WSYM-TV	D28	DT	LIC	LANSING, MI	BLANK0000177429	139.9
No	WSYM-TV	D28	DT	CP	LANSING, MI	BLANK0000181141	139.9
No	WBWM-LD	D28	LD	LIC	MT PLEASANT, MI	BLANK0000152432	18.6

No	WBWM-LD	D28	LD	CP	MT PLEASANT, MI	BLANK0000163180	59.9
No	WISN-TV	D28	DT	LIC	MILWAUKEE, WI	BLANK0000089554	276.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27
Mask: Full Service
Latitude: 43 43 33.00 N (NAD83)
Longitude: 84 36 19.00 W
Height AMSL: 278.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	46.8 m	35.0 km
45.0	15.0	56.7	37.4
90.0	15.0	71.6	39.9
135.0	15.0	73.9	40.2
180.0	15.0	63.9	38.7
225.0	15.0	55.2	37.1
270.0	15.0	41.5	33.6
315.0	15.0	37.0	32.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 56 m

Proposal 25.05 dBu contour does not cross Canadian border

Distance to Canadian border: 193.9 km

Distance to Mexican border: 2146.6 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 221.8 degrees Distance: 165.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 264.0 degrees Distance: 1745.5 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 BLANK0000111708 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WADL	D27	DT	LIC	MOUNT CLEMENS, MI	BLANK0000111708	
Undesireds:	W27ET-D	D27	LD	APP	COLEMAN, MI		190.7 km
	WNDU-TV	D27	DT	LIC	SOUTH BEND, IN	BLANK0000216314	293.9
	WOCV-CD	D27	DC	LIC	CLEVELAND, OH	BLANK0000202416	163.2
	WTTE	D27	DT	LIC	COLUMBUS, OH	BLANK0000129745	291.1
	WQLN	D27	DT	LIC	ERIE, PA	BLANK0000083708	238.9
	WTAE-TV	D27	DT	LIC	PITTSBURGH, PA	BLANK0000112576	360.5
	WSYM-TV	D28	DT	LIC	LANSING, MI	BLANK0000177429	144.9
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	11184.6 4,605,126	11128.3	4,596,461	10995.5	4,567,954	10990.5 4,567,821	0.05 0.00
	5544.3 543,216	5544.3	543,216	5209.2	520,020	5209.2 520,020	0.00 0.00
(in Canada)							
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27ET-D D27 LD APP	60.3			10,907	5.0	133	

WNDU-TV D27 DT LIC	99.8	24,809	54.5	12,963	46.4	11,718	
WOCV-CD D27 DC LIC	76.3	14,925	32.1	3,079	17.0	2,344	
WOCV-CD D27 DC LIC	335.1	23,196	333.1	23,196	333.1	23,196	(in Canada)
WTTE D27 DT LIC	4.0	1,677	1.0	619	1.0	619	
WTTE D27 DT LIC	2.0	0	0.0	0	0.0	0	(in Canada)
WQLN D27 DT LIC	1.0	0	0.0	0	0.0	0	
WQLN D27 DT LIC	1.0	0	0.0	0	0.0	0	(in Canada)

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27ET-D	D27	LD	APP	COLEMAN, MI		
Undesireds:	WCMU-TV	D26	DT	LIC	MOUNT PLEASANT, MI	BLEDT20130710ABN	48.9 km
	WBWM-LD	D28	LD	LIC	MT PLEASANT, MI	BLANK0000152432	18.6
	Service area		Terrain-limited		IX-free	Percent IX	
	4271.0 206,004	4271.0	206,004	4255.8	205,622	0.36 0.19	
Undesired			Total IX		Unique IX	Prcnt Unique IX	
WCMU-TV D26 DT LIC		15.2	382	15.2	382	0.36 0.19	