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Study build station data: LMS TV 2018-04-18

Proposal: W39BH D24 LD CP CHAMPAIGN, IL
File number: BDCCDTL20150108ABN
Facility ID: 49185
Station data: LMS TV 2018-04-18
Record ID: 9beabc511ccf4d3f916ccf6212b6c0ea
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	WCIU-TV	D23	DT	CP	CHICAGO, IL	BLANK0000034608	203.0 km
No	WQPT-TV	D23	DT	APP	MOLINE, IL	BLANK0000035678	224.8
No	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLEDT20030702AAR	224.8
No	WUSI-TV	D23	DT	CP	OLNEY, IL	BLANK0000034827	141.5
No	W41DP-D	D23	LD	APP	SPRINGFIELD, IL	BLANK0000052932	120.3
No	WDTI	D23	DT	CP	INDIANAPOLIS, IN	BLANK0000034481	174.4
No	WIPB	D23	DT	LIC	MUNCIE, IN	BLEDT20090717ABL	241.7
No	W23DZ-D	D23	LD	LIC	TERRE HAUTE, IN	BLANK0000010881	166.7
No	KETC	D23	DT	CP	ST. LOUIS, MO	BLANK0000034609	259.5
No	KRUB-LD	D24	LD	LIC	CEDAR RAPIDS, IA	BLANK0000008208	363.4
No	KRUB-LD	D24	LD	CP	CEDAR RAPIDS, IA	BLANK0000036518	363.4
No	K24IM-D	D24	LD	LIC	KEOSAUQUA, IA	BLDTT20111228AAV	320.8
No	WRJK-LP	D24	LD	CP	ARLINGTON HEIGHTS, IL	BMPDTL20140211ACV	203.0
Yes	WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000034486	203.0
No	WUEB-LD	D24	LD	CP	Davenport, IL	BLANK0000036391	241.2
No	WUEB-LD	D24	LD	LIC	Davenport, IL	BLANK0000008359	235.5
Yes	WHOI	D24	DT	CP	PEORIA, IL	BLANK0000034285	129.5
No	NEW	D24	LD	APP	EVANSVILLE, IN	BNPDTL20090825BAF	231.9
No	WPTA	D24	DT	APP	FORT WAYNE, IN	BLANK0000035732	280.0
No	WPTA	D24	DT	LIC	FORT WAYNE, IN	BLCDT20031031AGU	280.0
No	WCZA-LD	D24	LD	APP	Indianapolis, IN	BLANK0000052710	195.5
No	WQDE-LD	D24	LD	APP	Indianapolis, IN	BLANK0000051594	174.4
No	WJTS-CD	D24	DC	CP	JASPER, IN	BLANK0000028094	225.0
No	WNKY	D24	DT	CP	BOWLING GREEN, KY	BLANK0000025367	385.6
No	WCVN-TV	D24	DT	LIC	COVINGTON, KY	BLEDT20020201ABJ	341.2

No	WKYI-CD	D24	DC	LIC	LOUISVILLE, KY	BLDTA20091030AGQ	283.0
No	WKON	D24	DT	CP	OWENTON, KY	BLANK00000034637	343.0
No	WTLJ	D24	DT	LIC	MUSKEGON, MI	BLANK00000001674	371.2
No	K24KY-D	D24	LD	CP	CAPE GIRARDEAU, MO	BLANK00000036238	345.4
No	K24JY-D	D24	LD	CP	COLUMBIA, MO	BLANK00000001277	378.0
No	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	249.7
No	WUWT-CD	D24	DC	CP	UNION CITY, TN	BLANK00000028231	413.1
No	WZCK-LD	D24	LD	APP	MADISON-MIDDLETON, WI	BLANK00000051613	343.0
No	WBME-CD	D24	DC	LIC	MILWAUKEE, WI	BLANK00000040426	334.7
No	W25DW-D	D25	LD	LIC	ARBURY HILLS, IL	BLDTL20110224ACQ	204.0
No	WTTW	D25	DT	CP	CHICAGO, IL	BLANK00000034877	203.0
No	W25EW-D	D25	LD	CP	JACKSONVILLE, IL	BLANK00000013744	121.6
No	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLCDT20090413AER	125.3
No	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLCDT20090623ACJ	174.7

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WILL 580 L DA2 D URBANA, IL BL20120719ADN

WILL 580 L DA2 N URBANA, IL BL20120719ADN

Record parameters as studied:

Channel: D24

Mask: Stringent

Latitude: 40 6 34.00 N (NAD83)

Longitude: 88 14 6.00 W

Height AMSL: 292.0 m

HAAT: 0.0 m

Peak ERP: 4.40 kW

Antenna: Omnidirectional

Elev Pattn: Generic

Elec Tilt: 1.75

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	4.40 kW	66.7 m	33.5 km
45.0	4.40	74.5	34.7
90.0	4.40	81.0	35.6
135.0	4.40	78.3	35.2
180.0	4.40	75.3	34.8
225.0	4.40	76.5	35.0

270.0	4.40	73.1	34.5
315.0	4.40	53.8	31.3

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 72 m

Distance to Canadian border: 475.2 km

Distance to Mexican border: 1657.7 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 33.7 degrees Distance: 336.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 275.7 degrees Distance: 1441.7 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%

**IX check failure to BLANK0000034285 CP scenario 1, 0.56% interference caused
**IX check failure to BLANK0000034285 CP scenario 2, 0.55% interference caused
**IX check failure to BLANK0000034285 CP scenario 3, 0.55% interference caused
**IX check failure to BLANK0000034285 CP scenario 4, 0.55% interference caused