

Study created: 2020.02.20 16:39:10 JMc

Study build station data: LMS TV 2020-02-20

Proposal: W41DP-D D23 LD APP SPRINGFIELD, IL  
File number: BLANK0000052932  
Facility ID: 181987  
Station data: User record  
Record ID: 717  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Individual records excluded:  
0000052932 W41DP-D D23 LD CP SPRINGFIELD, IL BLANK0000052932

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WBUI	D22	DT	LIC	DECATUR, IL	BLCDT20091119ACF	63.4 km
No	WVDM-LD	D22	LD	LIC	QUINCY, IL	BLANK0000083846	139.4
No	WTVW	D22	DT	LIC	EVANSVILLE, IN	BLANK0000087257	268.3
No	KBSI	D22	DT	LIC	CAPE GIRARDEAU, MO	BLCDT20110608ABZ	260.3
No	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	414.1
No	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDT20090612AI0	414.1
No	WCIU-TV	D23	DT	LIC	CHICAGO, IL	BLANK00000102906	285.5
No	W23EQ-D	D23	LD	LIC	DANVILLE, IL	BLANK0000068569	161.3
Yes	WQPT-TV	D23	DT	CP	MOLINE, IL	BLANK0000035678	188.0
Yes	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLEDT20030702AAR	188.0
Yes	WUSI-TV	D23	DT	LIC	OLNEY, IL	BLANK0000087280	157.4
No	WFBN-LD	D23	LD	LIC	ROCKFORD, IL	BLANK0000087738	284.9
No	W23BV-D	D23	LD	LIC	EVANSVILLE, IN	BLDTA20090720ACU	244.8
No	WDTI	D23	DT	CP	INDIANAPOLIS, IN	BLANK0000034481	284.5
No	WUEA-LD	D23	LD	LIC	SOUTH BEND, IN	BLANK0000088312	348.6
No	W23DZ-D	D23	LD	LIC	TERRE HAUTE, IN	BLANK0000010881	226.2
No	W23DZ-D	D23	LD	CP	TERRE HAUTE, IN	BLANK0000010909	273.8
No	WKZT-TV	D23	DT	LIC	ELIZABETHTOWN, KY	BLANK0000087417	393.9
No	WKPD	D23	DT	LIC	PADUCAH, KY	BLANK0000087419	304.4
No	K23MK-D	D23	LD	CP	COLUMBIA, MO	BNPDTL20100423ACE	251.4
No	K23PC-D	D23	LD	CP	ROLLA, MO	BLANK0000071816	277.9
No	K23LE-D	D23	LD	CP	SEDALIA, MO	BNPDTL20100319AEZ	347.4
Yes	KETC	D23	DT	LIC	ST. LOUIS, MO	BLANK0000055432	159.3
No	NEW	D23	LD	APP	SIOUX FALLS, SD	BNPDTL20090825AWE	330.8
No	WNAB	D23	DT	LIC	NASHVILLE, TN	BLCDT20040712AA0	455.5
No	W23BW-D	D23	DC	LIC	MADISON, WI	BLDTA20140827AAD	367.3
No	WTAS-LP	D23-	LD	CP	WAUKESHA, WI	BLANK0000054059	375.0
Yes	W24EV-D	D24	LD	CP	JACKSONVILLE, IL	BLANK0000071937	11.3
Yes	WHOI	D24	DT	LIC	PEORIA, IL	BLANK00000100514	97.9
No	W24DQ-D	D24	LD	CP	TERRE HAUTE, IN	BNPDTL20090825BSZ	193.4
No	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	150.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23

Mask: Full Service  
Latitude: 39 44 54.30 N (NAD83)  
Longitude: 89 31 57.50 W  
Height AMSL: 274.4 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattern: Generic  
Elec Tilt: 0.75

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	105.1 m	44.8 km
45.0	15.0	99.9	44.3
90.0	15.0	99.6	44.2
135.0	15.0	96.8	43.9
180.0	15.0	96.1	43.8
225.0	15.0	97.9	44.0
270.0	15.0	95.0	43.7
315.0	15.0	100.4	44.3

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 99 m

Distance to Canadian border: 592.2 km

Distance to Mexican border: 1547.8 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 42.1 degrees    Distance: 436.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 277.0 degrees    Distance: 1336.1 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%

No IX check failures found.