

Study created: 2018.09.17 19:08:58

Study build station data: LMS TV 2018-09-17

Proposal: K38HD-D D15 LD APP ST. LOUIS, MO

File number: KSDK tower 2.5 deg w/ fill

Facility ID: 49175

Station data: User record

Record ID: 62

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	WBDI-LD	D14	LD	CP	SPRINGFIELD, IL	BLANK0000001373	148.7 km
No	WBDI-LD	D14	LD	LIC	SPRINGFIELD, IL	BLDTL20140228AFS	148.6
No	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	29.7
No	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	29.7
No	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	436.4
No	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	323.1
No	WFDE-LD	D15	LD	LIC	CHAMPAIGN, IL	BLANK0000014111	159.7
Yes	WSEC	D15	DT	LIC	JACKSONVILLE, IL	BLEDT20031031ADN	117.6
No	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	146.5
No	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	146.5
Yes	WICS	D15	DT	CP	SPRINGFIELD, IL	BLANK0000034386	156.5
No	NEW	D15	LD	APP	EVANSVILLE, IN	BNPDTL20090825BAG	254.9

No	WYYW-CD	D15	DC LIC	EVANSVILLE, IN	BLDTA20130109AGB	274.9
No	WTTK	D15	DT CP	KOKOMO, IN	BLANK0000034055	384.7
No	WREP-LD	D15	LD LIC	MARTINSVILLE, IN	BLDTL20090710AEP	351.8
No	K15IJ-D	D15	LD CP	PITTSBURG, KS	BNPDTL20100106AGE	410.1
No	WDYL-LD	D15	LD CP	LOUISVILLE, KY	BLANK0000051818	391.5
No	K45IO-D	D15	LD CP	KANSAS CITY, MO	BLANK0000054324	365.7
No	KPOB-TV	D15	DT LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	196.7
No	KNPN-LD	D15	LD CP	SAINT JOSEPH, MO	BLANK0000052550	410.1
Yes	KMOS-TV	D15	DT LIC	SEDALIA, MO	BLEDT20030108ABK	220.4
No	KSPR-LD	D15	LD LIC	SPRINGFIELD, MO	BLDTL20150120AHZ	302.8
No	WDDY-LD	D15	LD CP	JACKSON, TN	BNPDTL20100319AEP	352.1
No	W50EA-D	D15	DC CP	MEMPHIS, TN	BLANK0000031039	369.2
No	WWWN-LP	N15+	TX LIC	MEMPHIS, TN	BLTTL20111121DBI	376.1
No	WZTV	D15	DT LIC	NASHVILLE, TN	BLCDT20050309ACM	403.8
No	WCQA-LD	D16	LD CP	SPRINGFIELD, IL	BLANK0000001374	148.7
No	WRSP-TV	D16	DT CP	SPRINGFIELD, IL	BLANK0000034422	156.5
No	WCQA-LD	D16	LD LIC	SPRINGFIELD, IL	BLDTL20140228AEL	148.6
No	KOZK	D16	DT CP	SPRINGFIELD, MO	BLANK0000034615	276.8
Yes	KDTL-LD	D16	LD LIC	ST LOUIS, MO	BLDTL20111205AEI	0.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15

Mask: Full Service

Latitude: 38 34 5.00 N (NAD83)

Longitude: 90 19 55.00 W

Height AMSL: 341.1 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: JAMPRO-JA/SS-16/15SEP (ID 1002789) 200.0 deg

Elev Pattn: JAMPRO 16 bay vertical pattern with fill

Elec Tilt: 2.50

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
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0.0 deg	0.037 kW	175.2 m	20.4 km
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45.0	0.037	188.9	21.1
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90.0	0.794	210.7	37.7
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135.0	11.0	208.3	51.2
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180.0	14.4	184.8	51.2
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225.0	14.7	177.9	50.9
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270.0	10.1	165.2	48.3
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315.0	0.360	164.8	31.1
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Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 184 m

Distance to Canadian border: 716.7 km

Distance to Mexican border: 1409.4 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 38.1 degrees Distance: 581.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 282.4 degrees Distance: 1290.2 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

---- Below is IX received by proposal KSDK tower 2.5 deg w/ ----

**MX with BLANK0000035663 APP scenario 1, 47.28% interference received

Proposal receives 45.35% interference from scenario 2

**MX with BLANK0000035663 APP scenario 3, 47.28% interference received

Proposal receives 45.35% interference from scenario 4