

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Corp Sq - Hgt, Model: Longley-Rice
Start: 2023.06.07 10:06:25

Study created: 2023.06.07 10:06:25

Study build station data: LMS TV 2023-06-07

Proposal: K25NG-D D25 DC APP ST. LOUIS, MO
File number: Corp Sq - Hgt
Facility ID: 190156
Station data: User record
Record ID: 911
Country: U.S.

Build options:
Protect LPTV records from Class A

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W18CJ	N18-	TX	LIC	QUINCY, IL	BLTTTL20011120AAN	164.6 km
No	WHOI	D24	DT	LIC	PEORIA, IL	BLANK0000100514	228.9
No	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLANK0000157749	18.6
No	KXNW	D25	DT	LIC	EUREKA SPRINGS, AR	BLANK0000059458	401.8
No	KWKB	D25	DT	LIC	IOWA CITY, IA	BLCDDT20070130AJQ	348.3
No	WTTW	D25	DT	LIC	CHICAGO, IL	BLANK0000193623	426.1
Yes	WEDK-LD	D25	LD	LIC	EFFINGHAM, IL	BLANK0000195937	161.9
No	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	228.9
No	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLANK0000153580	385.9
No	KMCI-TV	D25	DT	LIC	LAWRENCE, KS	BLANK0000153576	359.5
No	WBNM-LD	D25	LD	LIC	LOUISVILLE, KY	BLANK0000092952	398.0
Yes	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	191.4
No	K25QT-D	D25	LD	LIC	COLUMBIA, MO	BLANK0000179431	164.8
No	KFKY-LD	D25	LD	LIC	Springfield, MO	BLANK0000136440	296.9
No	WJFB	D25	DT	LIC	LEBANON, TN	BLANK0000147261	415.6
No	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDDT20050628AAP	382.1
No	WMBD-TV	D26	DT	LIC	PEORIA, IL	BLANK0000098193	229.8
No	WFIE	D26	DT	LIC	EVANSVILLE, IN	BLANK0000156756	266.3
Yes	KPLR-TV	D26	DT	LIC	ST. LOUIS, MO	BLANK0000160951	15.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D25
Mask: Full Service
Latitude: 38 40 37.30 N (NAD83)
Longitude: 90 23 59.50 W
Height AMSL: 279.4 m
HAAT: 0.0 m
Peak ERP: 15.0 kw
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

49.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kw	114.4 m	45.5 km
45.0	15.0	102.3	44.3
90.0	15.0	115.2	45.6
135.0	15.0	125.8	46.4
180.0	15.0	98.3	43.8
225.0	15.0	104.2	44.5
270.0	15.0	119.6	45.9
315.0	15.0	126.3	46.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 113 m

Distance to Canadian border: 715.1 km

Distance to Mexican border: 1412.9 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 39.2 degrees Distance: 575.3 km

Proposal is not within the west Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.9 degrees Distance: 1281.9 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%

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Interference to BLANK0000195937 LIC scenario 1

Desired:	Call WEDK-LD	Chan D25	Svc LD	Status LIC	City, State EFFINGHAM, IL	File Number BLANK0000195937	Distance		
Undesireds:	K25NG-D	D25	DC	BL	ST. LOUIS, MO	DTVBL190156	149.3 km		
	K25NG-D	D25	DC	APP	ST. LOUIS, MO	Corp Sq - Hgt	161.9		
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	197.4		
	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLANK0000153580	226.6		
	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	182.9		
Service area		Terrain-limited			IX-free, before		IX-free, after	Percent New	
IX	90.5	4,014	89.5	3,990	67.7	2,353	67.7	2,353	0.00
0.00									
Undesired				Total IX	Unique IX, before		Unique IX, after		
K25NG-D	D25	DC	BL	0.0	0	0.0	0		
K25NG-D	D25	DC	APP	1.0	16		0.0	0	
WEEK-TV	D25	DT	LIC	7.0	121	1.0	15	1.0	15
WRTV	D25	DT	LIC	5.0	105	1.0	0	1.0	0
WDKA	D25	DT	LIC	19.9	1,622	13.9	1,516	13.9	1,516

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Interference to BLANK0000087462 LIC scenario 1

Desired:	Call WDKA	Chan D25	Svc DT	Status LIC	City, State PADUCAH, KY	File Number BLANK0000087462	Distance	
Undesireds:	K25NG-D	D25	DC	BL	ST. LOUIS, MO	DTVBL190156	178.1 km	
	K25NG-D	D25	DC	APP	ST. LOUIS, MO	Corp Sq - Hgt	191.4	
	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLANK0000157749	173.5	
	WUWT-LD	D24	DC	BL	UNION CITY, TN	DTVBL32216	105.8	
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	363.3	
	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLANK0000153580	366.0	
	WJFB	D25	DT	LIC	LEBANON, TN	BLANK0000147261	228.2	
	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDT20050628AAP	247.2	
	WFIE	D26	DT	LIC	EVANSVILLE, IN	BLANK0000156756	136.5	
	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX	27418.6	655,249	27238.4	654,504	26468.8	647,359	26476.9 647,455	-0.03
-0.01								
Undesired				Total IX	Unique IX, before		Unique IX, after	
K25NG-D D25 DC BL	48.5			595	30.3	390		
K25NG-D D25 DC APP	39.4			517			22.2	294
KMOV D24 DT LIC	4.0			38	1.0	30	0.0	0
WUWT-LD D24 DC BL	226.8			2,282	82.3	1,726	82.3	1,726
WEEK-TV D25 DT LIC	3.0			2	0.0	0	0.0	0
WRTV D25 DT LIC	16.2			45	4.0	2	4.0	2
WJFB D25 DT LIC	198.7			1,685	111.2	972	111.2	972
WATN-TV D25 DT LIC	412.2			3,684	204.3	2,416	204.3	2,410
WFIE D26 DT LIC	123.6			331	104.3	192	104.3	192

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Interference to BLANK0000160951 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPLR-TV	D26	DT	LIC	ST. LOUIS, MO	BLANK0000160951	
Undesireds:	K25NG-D	D25	DC	BL	ST. LOUIS, MO	DTVBL190156	16.2 km

K25NG-D	D25	DC	APP	ST. LOUIS, MO	Corp Sq - Hgt	15.9
WMBD-TV	D26	DT	LIC	PEORIA, IL	BLANK0000098193	244.1
WFIE	D26	DT	LIC	EVANSVILLE, IN	BLANK0000156756	259.5
WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	366.1
KOMU-TV	D27	DT	LIC	COLUMBIA, MO	BLANK0000207157	168.5

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
31808.1 0.00	2,990,864	31277.7	2,985,079	30967.9 2,980,748	30966.9 2,980,726 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K25NG-D D25 DC BL	0.0	0	0
K25NG-D D25 DC APP	1.0	22	1.0 22
WMBD-TV D26 DT LIC	231.1	1,055	227.1 1,050
WFIE D26 DT LIC	63.6	3,158	51.5 3,017
WBUY-TV D26 DT LIC	14.2	153	6.1 17
KOMU-TV D27 DT LIC	13.0	106	13.0 106

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Interference to proposal scenario 1
18.79% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K25NG-D	D25	DC	APP	ST. LOUIS, MO	Corp Sq - Hgt	
Undesireds:	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLANK0000157749	18.6 km
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	228.9
	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	191.4
	KPLR-TV	D26	DT	LIC	ST. LOUIS, MO	BLANK0000160951	15.9

Service area	Terrain-limited	IX-free	Percent IX
6459.4 2,319,557	6264.0 2,303,890	4236.7 1,870,973	32.36 18.79
Undesired	Total IX	Unique IX	Prcnt Unique IX
KMOV D24 DT LIC	1446.4	289,592	147.0 19,178
WEEK-TV D25 DT LIC	17.0	1,299	2.0 0
WDKA D25 DT LIC	22.0	1,011	2.0 4
KPLR-TV D26 DT LIC	1872.3	413,684	566.9 142,863