

INTERFERENCE ANALYSIS FOR PROPOSED KPLR-TV, ST. LOUIS, MO, CHANNEL 26

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: kplr_p2, Model: Longley-Rice

Study build station data: LMS TV 2021-03-28

Proposal: KPLR-TV D26 DT APP ST. LOUIS, MO
File number: kplr_p2
Facility ID: 35417
Station data: User record
Record ID: 3757
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	243.3 km
No	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	178.4
Yes	K25NG-D	D25	DC	CP	ST. LOUIS, MO	BLANK0000127518	6.0
Yes	K25NG-D	D25	DC	LIC	ST. LOUIS, MO	BLDTL20130805ABR	16.2
Yes	WMBD-TV	D26	DT	LIC	PEORIA, IL	BLANK0000098193	244.1
Yes	WFIE	D26	DT	LIC	EVANSVILLE, IN	BLANK0000087068	259.5
No	WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	366.1
No	KOMU-TV	D27	DT	APP	COLUMBIA, MO	BLANK0000125105	168.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26
Latitude: 38 32 7.00 N (NAD83)
Longitude: 90 22 23.00 W
Height AMSL: 475.0 m
HAAT: 315.0 m
Peak ERP: 1000 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.75

40.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	301.3 m	99.2 km
45.0	1000	321.8	101.3
90.0	1000	339.1	103.0
135.0	1000	327.5	101.9
180.0	1000	317.7	100.9
225.0	1000	300.5	99.1
270.0	1000	321.3	101.3
315.0	1000	291.5	98.0

Distance to Canadian border: 721.7 km

Distance to Mexican border: 1404.3 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 38.1 degrees Distance: 586.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 282.5 degrees Distance: 1287.5 km

Study cell size: 2.00 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 BLANK0000127518 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K25NG-D	D25	DC	CP	ST. LOUIS, MO	BLANK0000127518	
Undesireds:	KPLR-TV	D26	DT	BL	ST. LOUIS, MO	DTVBL35417	0.1 km
	KPLR-TV	D26	DT	APP	ST. LOUIS, MO	kplr_p2	6.0
	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	5.5
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	237.9
	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	178.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7237.2 2,369,932		6993.9 2,357,676		3391.7 1,773,255		3632.8 1,847,446	-7.11 -4.18
Undesired		Total IX		Unique IX, before		Unique IX, after	
KPLR-TV D26 DT BL		3442.8 564,347		773.5 162,810			
KPLR-TV D26 DT APP		3060.5 480,912				532.4 88,619	
KMOV D24 DT LIC		2804.8 421,030		139.6 19,652		292.6 28,987	
WEEK-TV D25 DT LIC		28.0 1,740		3.9 0		0.0 0	
WDKA D25 DT LIC		47.4 636		7.9 186		0.0 0	

Interference to BLDLTL20130805ABR LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K25NG-D	D25	DC	LIC	ST. LOUIS, MO	BLDRTL20130805ABR	
Undesireds:	KPLR-TV	D26	DT	BL	ST. LOUIS, MO	DTVBL35417	10.3 km
	KPLR-TV	D26	DT	APP	ST. LOUIS, MO	kplr_p2	16.2
	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	12.7
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	229.6
	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	178.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6462.6 2,222,002		6338.8 2,213,204		2975.1 1,528,573		3211.7 1,627,807	-7.95 -6.49
Undesired		Total IX		Unique IX, before		Unique IX, after	
KPLR-TV D26 DT BL		3215.0 658,644		597.9 191,703			
KPLR-TV D26 DT APP		2633.9 505,194				361.3 92,469	
KMOV D24 DT LIC		2757.8 490,855		144.7 25,987		481.3 79,403	
WEEK-TV D25 DT LIC		7.9 841		0.0 0		0.0 0	
WDKA D25 DT LIC		27.9 2,988		4.0 0		4.0 0	

Interference to BLANK0000098193 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMBD-TV	D26	DT	LIC	PEORIA, IL	BLANK0000098193	
Undesireds:	KPLR-TV	D26	DT	BL	ST. LOUIS, MO	DTVBL35417	238.8 km
	KPLR-TV	D26	DT	APP	ST. LOUIS, MO	kplr_p2	244.1
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000137499	1.0
	WKOW	D26	DT	LIC	MADISON, WI	BLCDT20111006AAO	269.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19623.8 742,729		19603.6 742,660		19498.6 741,610		19498.7 741,608	-0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KPLR-TV D26 DT BL		60.5 345		52.4 152			
KPLR-TV D26 DT APP		60.4 347				52.3 154	
WEEK-TV D25 DT LIC		8.0 538		4.0 351		4.0 351	
WKOW D26 DT LIC		44.6 360		40.5 354		40.5 354	

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Interference to BLANK0000087068 LIC scenario 1

Desired:	Call WFIE	Chan D26	Svc DT	Status LIC	City, State EVANSVILLE, IN	File Number BLANK0000087068	Distance		
Undesireds:	KPLR-TV	D26	DT	BL	ST. LOUIS, MO	DTVBL35417	256.6 km		
	KPLR-TV	D26	DT	APP	ST. LOUIS, MO	kplr_p2	259.5		
	WDKA	D25	DT	LIC	PADUCAH, KY	BLANK0000087462	136.5		
	WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	353.4		
	WCPO-TV	D26	DT	LIC	CINCINNATI, OH	BLANK0000087181	296.5		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
23251.6	743,079	23048.8	740,909	22777.9	739,347	22766.0	739,428	0.05	-0.01
Undesired				Total IX	Unique IX, before		Unique IX, after		
KPLR-TV	D26	DT	BL	231.2	1,142	211.3	1,056		
KPLR-TV	D26	DT	APP	243.1	1,061			223.2	975
WDKA	D25	DT	LIC	8.0	21	0.0	0	0.0	0
WBUY-TV	D26	DT	LIC	15.9	65	0.0	0	0.0	0
WCPO-TV	D26	DT	LIC	39.7	420	39.7	420	39.7	420

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPLR-TV	D26	DT	APP	ST. LOUIS, MO	kplr_p2	
Undesireds:	K25NG-D	D25	DC	CP	ST. LOUIS, MO	BLANK0000127518	6.0 km
	WMBD-TV	D26	DT	LIC	PEORIA, IL	BLANK0000098193	244.1
	WFIE	D26	DT	LIC	EVANSVILLE, IN	BLANK0000087068	259.5
	WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	366.1
	KOMU-TV	D27	DT	APP	COLUMBIA, MO	BLANK0000125105	168.5
Service area		Terrain-limited			IX-free	Percent IX	
31751.4	2,991,598	31222.4	2,988,106		30884.1	2,983,377	1.08 0.16
Undesired				Total IX		Unique IX	Prcnt Unique IX
WMBD-TV	D26	DT	LIC	262.7	1,022	258.7	899 0.83 0.03
WFIE	D26	DT	LIC	51.5	3,673	43.6	3,447 0.14 0.12
WBUY-TV	D26	DT	LIC	11.9	176	7.9	73 0.03 0.00
KOMU-TV	D27	DT	APP	20.1	84	20.1	84 0.06 0.00