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

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tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: kplr06,  Model: Longley-Rice

Study build station data: LMS TV 2020-11-25

    Proposal: KPLR06 D26 DT APP ST. LOUIS, MO
 File number: kplr06
 Facility ID: 35417
Station data: User record
   Record ID: 4454
     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               BLANK0000100761        243.3 km
No   WDKA      D25        DT  LIC     PADUCAH, KY              BLANK0000087462        178.4
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: 492.7 m
       HAAT: 333.0 m
   Peak ERP: 1000 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 0.75

40.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   1000 kW   319.0 m  101.1 km
 45.0       1000      339.5    103.0
 90.0       1000      356.8    104.6
135.0       1000      345.2    103.5
180.0       1000      335.4    102.6
225.0       1000      318.2    101.0
270.0       1000      339.0    102.9
315.0       1000      309.2    100.0

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 BLDTL20130805ABR LIC scenario 1
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	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K25NG-D	D25	DC	LIC	ST. LOUIS, MO	BLDTL20130805ABR	
Undesireds:	KPLR-TV	D26	DT	BL	ST. LOUIS, MO	DTVBL35417	10.3 km
	KPLR06	D26	DT	APP	ST. LOUIS, MO	kplr06	16.2
	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	12.7
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000100761	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	3131.6	1,610,246	-5.26 -5.34

Undesired	Total IX		Unique IX, before		Unique IX, after	
KPLR-TV D26 DT BL	3215.0	658,644	597.9	191,703		
KPLR06 D26 DT APP	2826.2	525,308			441.4	110,030
KMOV D24 DT LIC	2757.8	490,855	144.7	25,987	369.1	76,850
WEEK-TV D25 DT LIC	3.9	800	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
	KPLR06	D26	DT	APP	ST. LOUIS, MO	kplr06	244.1
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLANK0000100761	1.0
	WPVN-CD	D26	DC	LIC	CHICAGO, IL	BLANK0000106475	212.9
	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	56.4	339		
KPLR06 D26 DT APP	60.4	347			56.4	341
WEEK-TV D25 DT LIC	4.0	351	4.0	351	4.0	351
WKOW D26 DT LIC	44.6	360	40.5	354	40.5	354

Interference to BLANK0000087068 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFIE	D26	DT	LIC	EVANSVILLE, IN	BLANK0000087068	
Undesireds:	KPLR-TV	D26	DT	BL	ST. LOUIS, MO	DTVBL35417	256.6 km
	KPLR06	D26	DT	APP	ST. LOUIS, MO	kplr06	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	22762.0	739,415	0.07 -0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
KPLR-TV D26 DT BL	231.2	1,142	211.3	1,056		
KPLR06 D26 DT APP	247.1	1,074			227.2	988
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:	KPLR06	D26	DT	APP	ST. LOUIS, MO	kplr06	
Undesireds:	WMBD-TV	D26	DT	LIC	PEORIA, IL	BLANK0000098193	244.1 km
	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

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32882.1	3,008,857	32241.4	3,004,721	31867.5	2,998,753	1.16	0.20

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WMBD-TV D26 DT LIC	294.4	2,352	290.4	2,229		0.90	0.07
WFIE D26 DT LIC	59.5	3,595	55.5	3,472		0.17	0.12
WBUY-TV D26 DT LIC	4.0	60	4.0	60		0.01	0.00
KOMU-TV D27 DT APP	20.1	84	20.1	84		0.06	0.00
