

tvstudy v2.2.5 (V91R41)

Database: localhost, Study: KGBU_ch27_15kW_ND, Model: Longley-Rice

Start: 2018.04.02 19:54:37

Study created: 2018.04.02 19:54:37

Study build station data: LMS TV 2018-03-19

Proposal: KGBU-LP D27 LD LIC ST. LOUIS, MO

File number: BLANK0000001766

Facility ID: 68055

Station data: User record

Record ID: 243

Country: U.S.

Build options:

Protect baseline records from LPTV

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W26DZ-D	D26	LD	LIC	CHAMPAIGN, IL	BLANK00000014105	133.1 km
No	W26DZ-D	D26	LD	CP	CHAMPAIGN, IL	BLANK00000013445	133.1
No	WMBD-TV	D26	DT	CP	PEORIA, IL	BLANK00000027808	238.7
No	WFIE	D26	DT	CP	EVANSVILLE, IN	BLANK00000034157	256.7
No	K26ME-D	D26	LD	CP	CAPE GIRARDEAU, MO	BLANK00000036235	145.2
No	K26KH-D	D26	LD	CP	COLUMBIA, MO	BNPDTL20090825BTX	178.4
No	K26KT-D	D26	LD	CP	ELDON, MO	BNPDTL20090825BVM	192.9
No	KPLR-TV	D26	DT	LIC	ST. LOUIS, MO	BLCDDT20030812ABY	0.0
No	KFTA-TV	D27	DT	LIC	FORT SMITH, AR	BLCDDT20090331AEC	464.1
No	KJNB-LD	D27	LD	APP	JONESBORO, AR	BLANK00000029562	284.9
No	KFXA	D27	DT	LIC	CEDAR RAPIDS, IA	BLCDDT20050713ABD	418.3
No	W27DF-D	D27	LD	LIC	QUINCY, IL	BLANK00000023020	177.7
No	W40CN-D	D27	DC	CP	SUGAR GROVE, IL	BLANK00000027753	391.6
No	WTTV	D27	DT	CP	BLOOMINGTON, IN	BLANK00000034516	372.6
No	KSNT	D27	DT	LIC	TOPEKA, KS	BLCDDT20090910ABY	476.1
No	W27DH-D	D27	LD	LIC	Louisville, KY	BLANK00000010566	342.1
No	W27DH-D	D27	LD	CP	Louisville, KY	BLANK00000036475	250.9
Yes	NEW	D27	LD	APP	ROLLA, MO	BNPDTL20090825BJV	144.2
No	KULG-LD	D27	LD	LIC	Springfield, MO	BLANK00000007881	338.1
No	KULG-LD	D27	LD	CP	Springfield, MO	BLANK00000036446	342.1
No	WYJJ-LD	D27	LD	LIC	JACKSON, TN	BLDTL20140516ABM	351.2
No	WLJT-DT	D27	DT	CP	LEXINGTON, TN	BLANK00000034926	353.7
No	WKRN-TV	D27	DT	LIC	NASHVILLE, TN	BLCDDT20090624ABO	417.5
No	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDDT20060609ABE	250.3
No	WSIU-TV	D28	LD	CP	CARBONDALE, IL	BDRTEDT20100830ABG	146.0
No	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK00000034410	25.0
No	W28EB-D	D28	LD	CP	EFFINGHAM, IL	BMPDTL20111006ACQ	159.2
No	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK00000027564	254.6
No	KLMC-LP	N28+	TX	LIC	JEFFERSON CITY, MO	BLTTL20050613AFP	167.6
No	KLMC-LP	D28	LD	CP	JEFFERSON CITY, MO	BDFCDTL20120625ACS	172.2
No	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDDT20070213ABB	275.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27

Mask: Full Service

Latitude: 38 34 27.90 N (NAD83)

Longitude: 90 19 31.90 W

Height AMSL: 306.2 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: Omnidirectional
 Elev Pattn: Generic
 Elec Tilt: 1.75

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	137.7 m	47.0 km
45.0	15.0	154.8	48.2
90.0	15.0	173.9	49.4
135.0	15.0	172.0	49.3
180.0	15.0	144.9	47.5
225.0	15.0	144.4	47.5
270.0	15.0	132.4	46.6
315.0	15.0	135.4	46.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 149 m

Distance to Canadian border: 715.8 km

Distance to Mexican border: 1410.3 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 38.1 degrees Distance: 580.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 282.3 degrees Distance: 1290.6 km

Study cell size: 0.50 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%

----- Interference to BNPDTL20090825BJV APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	NEW	D27	LD	APP	ROLLA, MO	BNPDTL20090825BJV	
Undesireds:	KBGU-LP	D27	LD	LIC	ST. LOUIS, MO	BLANK0000001766	144.2 km
	K26KT-D	D26	LD	CP	ELDON, MO	BNPDTL20090825BVM	76.6
	KULG-LD	D27	LD	LIC	Springfield, MO	BLANK0000007881	193.9
	KLMC-LP	N28+	TX	LIC	JEFFERSON CITY, MO	BLTTL20050613AFP	78.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6863.9		133,591		6601.7		131,499	0.00 0.00
		6699.6		132,363		6601.4	131,499
Undesired				Total IX	Unique IX, before	Unique IX, after	
KBGU-LP	D27	LD	LIC	0.3	0	0.3	0
K26KT-D	D26	LD	CP	97.9	864	97.9	864

----- Interference to proposal scenario 1

**MX: 17.59% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KBGU-LP	D27	LD	LIC	ST. LOUIS, MO	BLANK0000001766	
Undesireds:	W26DZ-D	D26	LD	LIC	CHAMPAIGN, IL	BLANK00000014105	133.1 km
	KPLR-TV	D26	DT	LIC	ST. LOUIS, MO	BLCDT20030812ABY	0.0
	W27DH-D	D27	LD	LIC	Louisville, KY	BLANK00000010566	342.1
	NEW	D27	LD	APP	ROLLA, MO	BNPDTL20090825BJV	144.2
	KULG-LD	D27	LD	LIC	Springfield, MO	BLANK0000007881	338.1
	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK00000034410	25.0

4/6/2018

St. Louis - Dropbox

Service area		Terrain-limited		IX-free		Percent IX	
7178.9	2,366,772	6936.3	2,355,394	4348.7	1,941,104	37.31	17.59
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KPLR-TV D26 DT LIC		2492.2	398,474	1952.0	325,522	28.14	13.82
NEW D27 LD APP		0.5	5	0.0	0	0.00	0.00
WRBU D28 DT CP		635.6	88,768	95.1	15,816	1.37	0.67