

**Note:**  
**Study cell size: 1.00 km**  
**Profile point spacing: 0.10 km**

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: KKTN\_Ch29\_Omni\_Hgt\_Pre, Model: Longley-Rice  
Start: 2019.04.17 20:35:57

Study created: 2019.04.17 20:02:19

Study build station data: LMS TV 2019-04-16

Proposal: KKTN-LD D29 LD APP FORT SMITH, AR  
File number: KKTN\_Ch29\_Omni\_Hgt  
Facility ID: 184038  
Station data: User record  
Record ID: 841  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel  
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	K25GJ	N25+	TX	LIC	MUSKOGEE, OK	BLTT20051206ADA	98.8 km
No	K28NT-D	D28z	LD	LIC	BENTONVILLE & ROGERS, AR	BLANK0000059138	95.5
No	KARZ-TV	D28	DT	CP	LITTLE ROCK, AR	BLANK0000062880	177.2
No	KJPX-LP	D28+	LD	CP	JOPLIN, MO	BLANK0000054317	172.5
No	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDDT20070213ABB	222.8
No	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDDT20020510AAQ	174.1
No	K29KW-D	D29	LD	CP	FORT SMITH, AR	BLANK0000008509	71.5
No	KZTE-LD	D29	LD	CP	FULTON, AR	BLANK0000054183	232.2
No	KWMO-LD	D29	LD	CP	HOT SPRINGS, AR	BLANK0000052513	177.1
Yes	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	75.7
No	K29KL-D	D29	LD	CP	INDEPENDENCE, KS	BLANK0000030455	193.5
No	K15DD-D	D29	LD	CP	WICHITA, KS	BLANK0000053613	367.3
No	K45IM-D	D29	LD	CP	MONROE, LA	BLANK0000054924	373.1
No	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDDT20090618ACY	398.5
No	K29JF-D	D29	LD	LIC	ROLLA, MO	BLDTL20130222ADE	348.2
No	K29LK-D	D29+	LD	LIC	Springfield, MO	BLANK0000063015	184.3
No	K29LK-D	D29+	LD	CP	Springfield, MO	BLANK0000068381	209.6
No	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDDT20081105ACO	293.6
No	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	173.6
No	KTZT-CD	D29	DC	LIC	TULSA, OK	BLDTA20120430AEA	173.6
Yes	K29JY-D	D29	LD	CP	VIAN, OK	BNPDTL20100504ALZ	60.6
No	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	402.4
No	KDTN	D29	DT	CP	DENTON, TX	BLANK0000034864	410.1
No	KTXA	D29	DT	LIC	FORT WORTH, TX	BLCDDT20110127AAG	413.6
No	KBJE-LD	D29	LD	CP	TYLER, TX	BPDTL20150220AAU	375.5
No	KBJE-LD	D29	LD	LIC	TYLER, TX	BLDTL20140305AJV	361.8
No	KKAF-LD	D30	LD	LIC	FAYETTEVILLE, AR	BLANK0000062918	71.5
No	KLRT-TV	D30	DT	LIC	LITTLE ROCK, AR	BLCDDT20020507AAK	177.2
No	KCLJ-LP	D30	LD	CP	JOPLIN/CARTHAGE, MO	BDFCDTA20100813CAI	172.5
No	KCLJ-LP	N30z	TX	LIC	JOPLIN/CARTHAGE, MO	BLTTA20050506ACG	172.5
No	K46LF-D	D30	LD	CP	TULSA, OK	BLANK0000048993	173.3
No	KHMF-LD	N33+	TX	LIC	FORT SMITH, AR	BLTTL20051208ACS	48.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29  
Mask: Full Service  
Latitude: 35 30 18.10 N (NAD83)  
Longitude: 94 14 23.10 W  
Height AMSL: 246.7 m

HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	-79.9 m	30.1 km
45.0	15.0	-10.4	30.1
90.0	15.0	78.7	40.8
135.0	15.0	121.8	45.7
180.0	15.0	116.4	45.3
225.0	15.0	107.5	44.4
270.0	15.0	29.5	30.1
315.0	15.0	-10.1	30.1

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 44 m

Distance to Canadian border: 1197.9 km

Distance to Mexican border: 924.4 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 330.0 degrees    Distance: 704.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 301.3 degrees    Distance: 1091.3 km

Study cell size: 1.00 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%

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Interference to BLANK0000049027 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	
Undesireds:	KKTN-LD	D29	LD	APP	FORT SMITH, AR	KKTN_Ch29_Omni_Hgt	75.7 km
	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	322.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	295.4
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	152.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
11306.4	512,648	10864.1	507,135	10645.7	503,160	10606.0    502,701	0.37    0.09
Undesired	Total IX		Unique IX, before		Unique IX, after		
KKTN-LD D29 LD APP	65.8	830	39.7	459			
KMBC-TV D29 DT LIC	41.2	1,447	13.1	994	8.0	914	
KTUZ-TV D29 DT LIC	158.0	2,471	80.3	1,326	74.4	1,296	
KTZT-CD D29 DC CP	117.0	1,444	46.4	487	44.4	412	

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Interference to BLANK0000049027 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	
Undesireds:	KKTN-LD	D29	LD	APP	FORT SMITH, AR	KKTN_Ch29_Omni_Hgt	75.7 km
	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	322.8
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	295.4
	KTZT-CD	D29	DC	LIC	TULSA, OK	BLDTA20120430AEA	152.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
11306.4	512,648	10864.1	507,135	10691.0	503,647	10649.3    503,113	0.39    0.11
Undesired	Total IX		Unique IX, before		Unique IX, after		

KKTN-LD D29 LD APP	65.8	830			41.7	534
KMBC-TV D29 DT LIC	41.2	1,447	14.1	1,017	9.0	937
KTUZ-TV D29 DT LIC	158.0	2,471	124.8	2,027	117.9	1,909
KTZT-CD D29 DC LIC	7.1	14	1.0	0	1.0	0

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Interference to BNPDTL20100504ALZ CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K29JY-D	D29	LD	CP	VIAN, OK	BNPDTL20100504ALZ	
Undesireds:	KKTN-LD	D29	LD	APP	FORT SMITH, AR	KKTN_Ch29_Omni_Hgt	60.6 km
	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	98.1
	K29LK-D	D29+	LD	LIC	Springfield, MO	BLANK0000063015	235.2
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	233.6
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	125.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1089.6		19,830		1033.9		18,997	0.89 1.45
Undesired		Total IX		Unique IX, before		Unique IX, after	
KKTN-LD D29 LD APP		20.9		524		9.0	276
KWOG D29 DT LIC		7.0		8		4.0	0
KTUZ-TV D29 DT LIC		23.8		409		12.9	167
KTZT-CD D29 DC CP		3.0		23		1.0	21

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Interference to BNPDTL20100504ALZ CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K29JY-D	D29	LD	CP	VIAN, OK	BNPDTL20100504ALZ	
Undesireds:	KKTN-LD	D29	LD	APP	FORT SMITH, AR	KKTN_Ch29_Omni_Hgt	60.6 km
	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	98.1
	K29LK-D	D29+	LD	LIC	Springfield, MO	BLANK0000063015	235.2
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	233.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1089.6		19,830		1033.9		19,018	0.89 1.45
Undesired		Total IX		Unique IX, before		Unique IX, after	
KKTN-LD D29 LD APP		20.9		524		9.0	276
KWOG D29 DT LIC		7.0		8		4.0	0
KTUZ-TV D29 DT LIC		23.8		409		14.9	169

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKTN-LD	D29	LD	APP	FORT SMITH, AR	KKTN_Ch29_Omni_Hgt	
Undesireds:	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	75.7 km
	K29LK-D	D29+	LD	LIC	Springfield, MO	BLANK0000063015	184.3
	KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	293.6
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	173.6
	K29JY-D	D29	LD	CP	VIAN, OK	BNPDTL20100504ALZ	60.6
Service area		Terrain-limited		IX-free		Percent IX	
4498.6		225,327		4002.2		1.14	1.04
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KWOG D29 DT LIC		19.9		214		0.47	0.10
KTUZ-TV D29 DT LIC		9.0		332		0.07	0.15
KTZT-CD D29 DC CP		1.0		0		0.02	0.00
K29JY-D D29 LD CP		21.9		1,675		0.42	0.78

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Interference to proposal scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKTN-LD	D29	LD	APP	FORT SMITH, AR	KKTN_Ch29_Omni_Hgt	
Undesireds:	KWOG	D29	DT	LIC	SPRINGDALE, AR	BLANK0000049027	75.7 km
	K29LK-D	D29+	LD	LIC	Springfield, MO	BLANK0000063015	184.3

KTUZ-TV	D29	DT	LIC	SHAWNEE, OK	BLCDT20081105ACO	293.6
K29JY-D	D29	LD	CP	VIAN, OK	BNPDTL20100504ALZ	60.6

Service area	Terrain-limited	IX-free	Percent IX
4498.6 225,327	4002.2 214,178	3957.4 211,958	1.12 1.04

Undesired	Total IX	Unique IX	Prcnt Unique IX
KWOG D29 DT LIC	19.9 214	18.9 214	0.47 0.10
KTUZ-TV D29 DT LIC	9.0 332	3.0 331	0.07 0.15
K29JY-D D29 LD CP	21.9 1,675	16.9 1,674	0.42 0.78