

tvstudy v2.2.2
Database: localhost, Study: KAUT-P6, Model: Longley-Rice
Start: 2017.05.24

Study created: 2017.05.24

Study build station data: LMS TV 2017-05-22 (8)

Proposal: KAUT-P6 D19 DT APP OKLAHOMA CITY, OK
File number: KAUT-P6
Facility ID: 50182
Station data: User record
Record ID: 256
Country: U.S.
Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KOPX-TV	D18	DT	BL	OKLAHOMA CITY, OK	DTVBL2566	3.2 km
KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	260.5
KWCH-DT	D19	DT	LIC	HUTCHINSON, KS	BLCDT20090929ACC	278.0
KYTV	D19	DT	BL	SPRINGFIELD, MO	DTVBL36003	444.4
KAMR-TV	D19	DT	LIC	AMARILLO, TX	BLCDT20080519ACZ	393.1
KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDT20121115ABM	339.8
KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDT20130823ACR	153.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19
Latitude: 35 34 7.00 N (NAD83)
Longitude: 97 29 21.00 W
Height AMSL: 819.6 m
HAAT: 467.0 m
Peak ERP: 375 kW
Antenna: Omnidirectional

39.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	375 kW	465.9 m	106.1 km
45.0	375	492.2	108.3
90.0	375	472.6	106.7
135.0	375	463.0	105.8
180.0	375	455.1	105.2
225.0	375	454.5	105.1
270.0	375	452.8	105.0
315.0	375	480.4	107.3

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1430.3 km

Distance to Mexican border: 740.9 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 352.4 degrees Distance: 600.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 309.0 degrees Distance: 846.1 km

No land mobile station failures found

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%

Interference to DTVBL2566 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KOPX-TV	D18	DT	BL	OKLAHOMA CITY, OK	DTVBL2566	

Undesireds:	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	0.0 km
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	3.2
	KTEN	D17	DT	BL	ADA, OK	DTVBL35666	161.6
	KUTU-CD	D17	DC	BL	TULSA, OK	DTVBL31369	148.3
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	301.9
	KTXA	D18	DT	BL	FORT WORTH, TX	DTVBL51517	343.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28804.9 1,513,730	28748.8 1,512,480	28624.6 1,511,312	28109.0 1,504,769	1.80 0.43

Undesired	Total IX	Unique IX, before	Unique IX, after
KAUT-TV D19 DT BL	0.0 0	0.0 0	
KAUT-P6 D19 DT APP	527.6 6,629		515.7 6,543
KTEN D17 DT BL	7.9 20	7.9 20	
KFSM-TV D18 DT LIC	84.5 979	84.5 979	80.4 937
KTXA D18 DT BL	31.8 169	31.8 169	23.8 125

Interference to DTVBL52425 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	
Undesireds:	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	261.2 km
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	260.5
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDDT20060530AIM	97.2
	KYTV	D19	DT	BL	SPRINGFIELD, MO	DTVBL36003	281.5
	KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDDT20130823ACR	126.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4687.8 196,194	3965.9 186,330	3941.9 186,130	3946.0 186,151	-0.10 -0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
KAUT-TV D19 DT BL	12.0 161	4.0 21	
KAUT-P6 D19 DT APP	7.9 140		0.0 0
KFSM-TV D18 DT LIC	15.9 159	8.0 19	8.0 19
KYTV D19 DT BL	7.9 160	4.0 20	4.0 20

Interference to BLCDDT20090929ACC LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWCH-DT	D19	DT	LIC	HUTCHINSON, KS	BLCDDT20090929ACC	
Undesireds:	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	274.8 km
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	278.0
	KWKS	D19	DT	LIC	COLBY, KS	BLEDDT20070601ATA	338.7
	KTMJ-CD	D20	DC	BL	TOPEKA, KS	DTVBL43649	206.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
39694.4 883,647	39350.8 881,674	38431.2 878,686	38707.2 880,935	-0.72 -0.26

Undesired	Total IX	Unique IX, before	Unique IX, after
KAUT-TV D19 DT BL	863.6 2,956	863.6 2,956	
KAUT-P6 D19 DT APP	587.6 707		587.6 707
KWKS D19 DT LIC	56.0 32	56.0 32	56.0 32

Interference to DTVBL36003 BL, scenario 1
Proposal causes no interference.

Interference to BLCDDT20080519ACZ LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAMR-TV	D19	DT	LIC	AMARILLO, TX	BLCDDT20080519ACZ	
Undesireds:	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	393.2 km
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	393.1
	KPTF-DT	D18	DT	LIC	FARWELL, TX	BLCDDT20090612AEB	161.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35115.5 366,476	34579.6 366,335	34571.5 366,335	34571.5 366,335	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KAUT-TV D19 DT BL	8.1 0	8.1 0	
KAUT-P6 D19 DT APP	8.1 0		8.1 0

Interference to BLCDDT20121115ABM LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDDT20121115ABM	

Undesireds:	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	343.0 km
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	339.8
	KTXA	D18	DT	BL	FORT WORTH, TX	DTVBL51517	0.0
	KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	350.6
	KGBS-CD	D19	DC	LIC	AUSTIN, TX	BLDTL20141118ARA	259.8
	KTXH	D19	DT	LIC	HOUSTON, TX	BLCDDT20090804ABC	358.9
	KIDY	D19	DT	LIC	SAN ANGELO, TX	BLCDDT20110520ADN	351.5
	KFXK-TV	D20	DT	BL	LONGVIEW, TX	DTVBL70917	191.1
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	211.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
45638.0	6,912,366	45268.2	6,908,715	45120.3	6,907,182	45160.2	6,907,648	-0.09 -0.01

Undesired		Total IX		Unique IX, before		Unique IX, after
KAUT-TV D19 DT BL	107.9	997	107.9	997		
KAUT-P6 D19 DT APP	68.0	531	68.0	531		
KTXH D19 DT LIC	20.0	171	20.0	171		
KFXK-TV D20 DT BL	20.1	365	20.1	365		

Interference to BMLCDT20130823ACR LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDT20130823ACR	
Undesireds:	KAUT-TV	D19	DT	BL	OKLAHOMA CITY, OK	DTVBL50182	153.1 km
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	153.5
	KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	126.9
	KLRA-CD	D20	DC	LIC	LITTLE ROCK, AR	BLANK0000004217	318.4
	KTMJ-CD	D20	DC	BL	TOPEKA, KS	DTVBL43649	368.1
	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	325.6
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	127.0
	KUOT-CD	D21	DC	BL	OKLAHOMA CITY, OK	DTVBL31368	155.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
23656.6	1,128,198	23264.8	1,123,324	22789.2	1,117,951	22809.3	1,118,088 -0.09 -0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
KAUT-TV D19 DT BL	28.2	174	28.2	174			
KAUT-P6 D19 DT APP	8.0	37	8.0	37			
KSJF-CD D19 DC BL	72.7	482	4.0	75			
KHBS D21 DT LIC	443.4	5,124	374.8	4,717	374.8	4,717	

Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAUT-P6	D19	DT	APP	OKLAHOMA CITY, OK	KAUT-P6	
Undesireds:	KOPX-TV	D18	DT	BL	OKLAHOMA CITY, OK	DTVBL2566	3.2 km
	KSJF-CD	D19	DC	BL	Fort Smith, AR	DTVBL52425	260.5
	KWCH-DT	D19	DT	LIC	HUTCHINSON, KS	BLCDDT20090929ACC	278.0
	KAMR-TV	D19	DT	LIC	AMARILLO, TX	BLCDDT20080519ACZ	393.1
	KTVT	D19	DT	LIC	FORT WORTH, TX	BLCDDT20121115ABM	339.8
	KQCW-DT	D20	DT	LIC	MUSKOGEE, OK	BMLCDT20130823ACR	153.5
Service area		Terrain-limited		IX-free		Percent IX	
35442.6	1,594,569	35266.2	1,594,152	34328.3	1,591,515	2.66 0.17	

Undesired		Total IX		Unique IX		Prcnt Unique IX
KOPX-TV D18 DT BL	20.1	131	12.1	78	0.03	0.00
KWCH-DT D19 DT LIC	750.7	1,550	710.5	1,310	2.01	0.08
KAMR-TV D19 DT LIC	12.1	8	0.0	0	0.00	0.00
KTVT D19 DT LIC	142.9	835	142.9	835	0.41	0.05
KQCW-DT D20 DT LIC	52.3	353	32.2	174	0.09	0.01