

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KTOU-LD ANT CHG, Model: Longley-Rice
Start: 2022.06.06 09:29:06

Study created: 2022.06.06 09:29:06

Study build station data: LMS TV 2022-04-20

Proposal: KTOU-LD D22 LD APP OKLAHOMA CITY, OK
File number: KTOU-LD ANT CHG
Facility ID: 28186
Station data: User record
Record ID: 841
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDT20031121AMR	258.5 km
No	K21MP-D	D21	LD	LIC	LAWTON, OK	BLANK0000055044	111.8
No	KUOT-CD	D21	DC	LIC	OKLAHOMA CITY, OK	BLANK0000069721	4.0
No	K21MT-D	D21	LD	LIC	SEILING, OK	BLANK0000058911	152.9
No	K21IT-D	D21	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABG	112.2
No	K22HS-D	D22	LD	LIC	EUREKA SPRINGS, AR	BLDTL20110517ADA	354.7
No	K22OC-D	D22	LD	LIC	FORT SMITH, AR	BLANK0000151094	283.9
No	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLANK0000149936	460.3
No	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDT20081112AIQ	356.8
No	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000171221	455.5
No	K22ID-D	D22	LD	LIC	ALVA - CHEROKEE, OK	BLDTT20101007ABI	182.2
No	K22JQ-D	D22	LD	CP	ARDMORE, OK	BLANK0000164280	142.9
No	K22JQ-D	D22	LD	LIC	ARDMORE, OK	BLDTL20140224ACC	131.4
No	K22MA-D	D22	LD	LIC	ELK CITY, OK	BLANK0000058430	160.5
No	K22LZ-D	D22	LD	LIC	HOLLIS, OK	BLANK0000058437	222.0
No	K22MT-D	D22	LD	LIC	IDABEL, OK	BLANK0000059597	297.2
No	K22BR-D	D22	LD	LIC	MAY, ETC., OK	BLDTT20101008ABE	235.6
Yes	K22OD-D	D22	LD	CP	PONCA CITY, OK	BLANK0000071812	134.4
Yes	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	179.0
No	KZAB-LP	D22-	LD	CP	ABILENE, TX	BLANK0000136000	386.6
No	KZAB-LP	D22-	LD	LIC	ABILENE, TX	BLANK0000179375	386.6
No	KNAV-LD	D22	LD	LIC	DALLAS, TX	BLANK0000120153	314.8
No	KNAV-LD	N22-	TX	LIC	DALLAS, TX	BLTTL20050915ABM	314.8
No	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDT20120516ABW	421.2
No	KGSW-LD	D22	LD	LIC	KEENE, TX	BLANK0000106132	331.8
No	K39AN-D	D22	LD	CP	NEW MOBEETIE, TX	BLANK0000053931	273.6
No	K22NR-D	D22	LD	LIC	STEPHENVILLE, TX	BLANK0000074737	354.6
No	K22JR-D	D22	LD	LIC	TURKEY, TX	BLDTT20101115FOB	347.8
Yes	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	190.6
No	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLANK0000055374	23.4
No	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	23.4
No	K23NH-D	D23	LD	LIC	SEILING, OK	BLANK0000058916	152.9
No	KTUO-LD	D23	LD	CP	TULSA, OK	BLANK0000184124	154.8
No	KQDA-LD	D23	LD	LIC	DENISON, TX	BLDTL20150106ABO	185.2
No	DK40HZ	D23-	LD	APP	WICHITA FALLS, TX	BLANK0000052116	191.1

Non-directional AM stations within 0.8 km:
KRMP 1140 L NDD D OKLAHOMA CITY, OK BL19781127AB

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22
Mask: Full Service
Latitude: 35 23 14.00 N (NAD83)
Longitude: 97 29 57.00 W
Height AMSL: 520.1 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: ATC BCC312M-V3-22 1.0 deg

Elev Pattn: Generic
Elec Tilt: 0.75

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	153.8 m	48.7 km
45.0	12.2	145.9	47.1
90.0	7.31	136.8	43.9
135.0	6.39	153.2	44.3
180.0	7.53	152.8	45.1
225.0	6.44	151.7	44.2
270.0	7.16	126.6	43.1
315.0	12.0	144.4	46.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 146 m

Distance to Canadian border: 1442.3 km

Distance to Mexican border: 723.2 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 352.8 degrees Distance: 620.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.1 degrees Distance: 858.2 km

Study cell size: 1.00 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 BLANK0000071812 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K22OD-D	D22	LD	CP	PONCA CITY, OK	BLANK0000071812	
Undesireds:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	134.4 km
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDT20081112AIQ	229.7
	K22JQ-D	D22	LD	CP	ARDMORE, OK	BLANK0000164280	274.3
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	181.4
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLANK0000055374	111.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7585.1	111,092	7584.1	111,092	7563.9	111,066	7551.8 111,061	0.16 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KTOU-LD D22 LD APP				18.2 15	12.1 5		
KSNC D22 DT LIC				1.0 0 0.0 0	0.0 0		
KOKI-TV D22 DT LIC				14.1 16 12.1 16	12.1 16		
KSBI D23 DT LIC				8.1 10 5.0 10	2.0 0		

Interference to BLANK0000071812 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K22OD-D	D22	LD	CP	PONCA CITY, OK	BLANK0000071812	
Undesireds:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	134.4 km
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDT20081112AIQ	229.7
	K22JQ-D	D22	LD	CP	ARDMORE, OK	BLANK0000164280	274.3
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	181.4
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	111.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7585.1	111,092	7584.1	111,092	7563.9	111,066	7551.8 111,061	0.16 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KTOU-LD D22 LD APP				18.2 15	12.1 5		
KSNC D22 DT LIC				1.0 0 0.0 0	0.0 0		

KOKI-TV D22 DT LIC	14.1	16	12.1	16	12.1	16
KSBI D23 DT LIC	8.1	10	5.0	10	2.0	0

Interference to BLCDDT20021127AGL LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	
Undesireds:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	179.0 km
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	139.5
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLANK0000149936	319.7
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDDT20081112AIQ	382.5
	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000171221	277.2
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	351.7
	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	153.9
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLANK0000055374	170.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37682.1 1,365,694	36745.5 1,353,420	35336.8 1,330,799	35167.2 1,329,703	0.48 0.08
Undesired	Total IX	Unique IX, before	Unique IX, after	
KTOU-LD D22 LD APP	256.2 2,282	574.1 7,788	169.6 1,096	
KHBS D21 DT LIC	776.0 12,454	57.9 2,720	574.1 7,788	
KATV D22 DT LIC	278.8 7,684	20.1 19	55.8 2,720	
KSNC D22 DT LIC	22.1 19	26.2 221	12.0 16	
KRBK D22 DT LIC	80.3 701	35.0 76	26.2 221	
KAUZ-TV D22 DT LIC	45.1 105	364.9 5,419	18.9 24	
KODE-TV D23 DT LIC	391.9 5,562	72.5 1,242	364.9 5,419	
KSBI D23 DT LIC	82.5 1,271		23.1 140	

Interference to BLCDDT20021127AGL LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	
Undesireds:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	179.0 km
	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDDT20031121AMR	139.5
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLANK0000149936	319.7
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDDT20081112AIQ	382.5
	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000171221	277.2
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	351.7
	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	153.9
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDDT20140530AFS	170.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37682.1 1,365,694	36745.5 1,353,420	35336.8 1,330,799	35167.2 1,329,703	0.48 0.08
Undesired	Total IX	Unique IX, before	Unique IX, after	
KTOU-LD D22 LD APP	256.2 2,282	574.1 7,788	169.6 1,096	
KHBS D21 DT LIC	776.0 12,454	57.9 2,720	574.1 7,788	
KATV D22 DT LIC	278.8 7,684	20.1 19	55.8 2,720	
KSNC D22 DT LIC	22.1 19	26.2 221	12.0 16	
KRBK D22 DT LIC	80.3 701	35.0 76	26.2 221	
KAUZ-TV D22 DT LIC	45.1 105	364.9 5,419	18.9 24	
KODE-TV D23 DT LIC	391.9 5,562	72.5 1,242	364.9 5,419	
KSBI D23 DT LIC	82.5 1,271		23.1 140	

Interference to BLCDDT20090724ACR LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	
Undesireds:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	190.6 km
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDDT20021127AGL	351.7
	KETK-TV	D22	DT	LIC	JACKSONVILLE, TX	BMLCDDT20120516ABW	363.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27443.8 381,428	27338.2 380,008	27307.3 379,920	27306.3 379,920	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
KTOU-LD D22 LD APP	6.0 6	17.0 57	1.0 0	
KOKI-TV D22 DT LIC	19.0 57	11.9 31	13.0 51	
KETK-TV D22 DT LIC	13.9 31		11.9 31	

Interference to proposal scenario 1
10.53% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	
Undesireds:	KUOT-CD	D21	DC	LIC	OKLAHOMA CITY, OK	BLANK0000069721	4.0 km
	K22JQ-D	D22	LD	CP	ARDMORE, OK	BLANK0000164280	142.9
	K22OD-D	D22	LD	CP	PONCA CITY, OK	BLANK0000071812	134.4
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	179.0
	KNAV-LD	D22	LD	LIC	DALLAS, TX	BLANK0000120153	314.8
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	190.6
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLANK0000055374	23.4

Service area	Terrain-limited	IX-free	Percent IX
6522.4 1,163,587	6495.5 1,163,045	4479.7 1,040,558	31.03 10.53

Undesired	Total IX	Unique IX	Prcnt Unique IX
KUOT-CD D21 DC LIC	359.5 14,681	159.5 5,353	2.46 0.46
K22OD-D D22 LD CP	5.0 37	0.0 0	0.00 0.00
KOKI-TV D22 DT LIC	246.2 4,303	97.7 715	1.50 0.06
KAUZ-TV D22 DT LIC	114.8 2,428	26.0 434	0.40 0.04
KSBI D23 DT LIC	1664.7 114,365	1401.0 103,605	21.57 8.91

Interference to proposal scenario 2
11.88% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	KTOU-LD ANT CHG	
Undesireds:	KUOT-CD	D21	DC	LIC	OKLAHOMA CITY, OK	BLANK0000069721	4.0 km
	K22JQ-D	D22	LD	CP	ARDMORE, OK	BLANK0000164280	142.9
	K22OD-D	D22	LD	CP	PONCA CITY, OK	BLANK0000071812	134.4
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	179.0
	KNAV-LD	D22	LD	LIC	DALLAS, TX	BLANK0000120153	314.8
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	190.6
	KSBI	D23	DT	LIC	OKLAHOMA CITY, OK	BLCDT20140530AFS	23.4

Service area	Terrain-limited	IX-free	Percent IX
6522.4 1,163,587	6495.5 1,163,045	4448.0 1,024,824	31.52 11.88

Undesired	Total IX	Unique IX	Prcnt Unique IX
KUOT-CD D21 DC LIC	359.5 14,681	157.5 5,348	2.43 0.46
K22OD-D D22 LD CP	5.0 37	0.0 0	0.00 0.00
KOKI-TV D22 DT LIC	246.2 4,303	97.7 715	1.50 0.06
KAUZ-TV D22 DT LIC	114.8 2,428	26.0 434	0.40 0.04
KSBI D23 DT LIC	1698.4 130,104	1432.8 119,339	22.06 10.26