

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: KKTMLD21Pre-Post Transition, Model: Longley-Rice
Start: 2018.04.19 11:45:41

Study created: 2018.04.19 11:45:40

Study build station data: LMS TV 2018-04-18

Proposal: KKTMLD21+ LD APP ALTUS, OK
File number: KKTMLD21Pre-Post Transition
Facility ID: 130241
Station data: User record
Record ID: 1801
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K47KI-D	D20	LD	APP	DUNCAN, OK	BLANK0000029423	152.7 km
No	K20JB-D	D20	LD	LIC	HOLLIS, OK	BLDTT20100802AZJ	44.8
No	K20KS-D	D20	LD	CP	MCCLEAN, TX	BNPDTL20100406ACO	135.8
No	KTXS-TV	D20	DT	APP	SWEETWATER, TX	BLANK0000035779	257.9
No	KTXS-TV	D20	DT	LIC	SWEETWATER, TX	BLCDT20080815ABJ	257.9
No	KTXS-TV	D20	DT	CP	SWEETWATER, TX	BPCDT20110801ALU	257.9
No	K20DN-D	D20	DC	LIC	WICHITA FALLS, TX	BLANK0000001589	109.9
No	K20LC-D	D20	LD	CP	WICHITA FALLS, TX	BNPDTL20090825BQN	109.9
No	KHBS	D21	DT	LIC	FORT SMITH, AR	BLCDT20031121AMR	427.2
No	KDCK	D21	DT	LIC	DODGE CITY, KS	BLEDT20030423ABG	361.8
No	KAKE	D21	LD	LIC	WICHITA, KS	BLCDT20100308ABF	384.9
Yes	K21JN-D	D21	LD	LIC	ERICK, OK	BLDTT20100802AZU	66.3
Yes	K38GL-D	D21	LD	APP	LAWTON, OK	BLANK0000028992	97.0
No	KUOT-CD	D21	DC	CP	OKLAHOMA CITY, OK	BLANK0000033588	188.7
No	KTOU-LD	D21	LD	LIC	OKLAHOMA CITY, OK	BLDTL20110519AAQ	186.4
No	K41KS-D	D21	LD	APP	SEILING, OK	BLANK0000031244	164.8
Yes	K21IT-D	D21	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABG	109.1
Yes	K21IR-D	D21	LD	LIC	CHILDRESS, TX	BLDTT20100907ACP	85.7
No	KDTX-TV	D21	DT	CP	DALLAS, TX	BLANK0000034792	316.1
No	KWDA-LD	D21	LD	LIC	DALLAS, TX	BLDTL20110711AGT	312.4
No	KDKW-LD	D21	LD	CP	LUBBOCK, TX	BLANK0000008054	259.6
Yes	K21LA-D	D21	LD	CP	MCCLEAN, TX	BNPDTL20100406ACP	135.8
No	K21KJ-D	D21	LD	CP	MINERAL WELLS, TX	BLANK0000001185	294.0
No	K21KJ-D	D21	LD	LIC	MINERAL WELLS, TX	BLDTL20140612AAS	254.7
No	K21LV-D	D21	LD	LIC	PERRYTON, TX	BLDTT20120622ADI	211.2
No	KEUS-LD	D21	LD	APP	SAN ANGELO, TX	BLANK0000030047	365.6
No	K43KT-D	D22	LD	APP	ELK CITY, OK	BLANK0000029961	79.6
Yes	K47LS-D	D22	LD	APP	HOLLIS, OK	BLANK0000029973	44.8
No	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	BLANK0000051682	186.4
No	K22IC-D	D22	LD	LIC	STRONG CITY, OK	BLDTT20100521AEI	128.8
No	K22JR-D	D22	LD	LIC	TURKEY, TX	BLDTT20101115FOB	165.8
No	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	110.1
No	K25IC	N25+	TX	LIC	LAWTON, OK	BLTTL20070212ACG	86.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21+
Mask: Full Service
Latitude: 34 38 34.20 N (NAD83)
Longitude: 99 20 2.30 W
Height AMSL: 460.1 m
HAAT: 42.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.50

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	21.8 m	30.9 km
45.0	15.0	30.2	30.9
90.0	15.0	51.9	37.0
135.0	15.0	58.9	38.5
180.0	15.0	47.1	35.8

225.0	15.0	51.8	36.9
270.0	15.0	40.8	34.0
315.0	15.0	33.2	31.7

Distance to Canadian border: 1595.8 km

Distance to Mexican border: 575.2 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 6.2 degrees Distance: 702.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 321.2 degrees Distance: 800.3 km

No land mobile station failures found

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 BLDTT20100802AZU LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance				
	K21JN-D	D21	LD	LIC	ERICK, OK	BLDTT20100802AZU					
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	66.3 km				
	K20JB-D	D20	LD	LIC	HOLLIS, OK	BLDTT20100802AZJ	46.3				
	K21IR-D	D21	LD	LIC	CHILDRRESS, TX	BLDTT20100907ACP	92.3				
	K21LA-D	D21	LD	CP	MCCLEAN, TX	BNPDTL20100406ACP	84.6				
	K43KT-D	D22	LD	APP	ELK CITY, OK	BLANK0000029961	46.4				
	K47LS-D	D22	LD	APP	HOLLIS, OK	BLANK0000029973	46.3				
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX			
3032.4		8,770		2989.5		8,759		2971.5			
								8,642			
								4.37			
								1.34			
Undesired				Total IX	Unique IX, before	Unique IX, after					
KKTM-LD D21+ LD APP				141.9	117	129.9	117				
K20JB-D D20 LD LIC				10.0	0	0.0	0				
K21IR-D D21 LD LIC				2.0	0	0.0	0				
K21LA-D D21 LD CP				5.0	0	2.0	0				
K43KT-D D22 LD APP				3.0	0	2.0	0				
K47LS-D D22 LD APP				10.0	0	0.0	0				

Interference to BLANK0000028992 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance				
	K38GL-D	D21	LD	APP	LAWTON, OK	BLANK0000028992					
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	97.0 km				
	K47KI-D	D20	LD	APP	DUNCAN, OK	BLANK0000029423	57.3				
	K21JN-D	D21	LD	LIC	ERICK, OK	BLDTT20100802AZU	144.5				
	KUOT-CD	D21	DC	CP	OKLAHOMA CITY, OK	BLANK0000033588	112.5				
	K21IT-D	D21	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABG	106.7				
	KDTX-TV	D21	DT	CP	DALLAS, TX	BLANK0000034792	254.7				
	K21KJ-D	D21	LD	CP	MINERAL WELLS, TX	BLANK0000001185	243.6				
	K22JQ-D	D22	LD	LIC	ARDMORE, OK	BLDTL20140224ACC	111.4				
	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	BLANK0000051682	111.8				
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDDT20090724ACR	82.2				
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX			
7052.9		182,345		6894.7		182,005		6535.6			
								180,596			
								6508.5			
								180,587			
								0.41			
								0.00			
Undesired				Total IX	Unique IX, before	Unique IX, after					
KKTM-LD D21+ LD APP				43.1	58	27.1	9				
K47KI-D D20 LD APP				155.9	714	140.8	697				
K21JN-D D21 LD LIC				6.0	0	2.0	0				
KUOT-CD D21 DC CP				165.2	675	138.1	626				
K21IT-D D21 LD LIC				52.0	69	28.0	32				
KDTX-TV D21 DT CP				23.1	5	5.0	0				
KAUZ-TV D22 DT LIC				4.0	0	4.0	0				

Interference to BLANK0000028992 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K38GL-D	D21	LD	APP	LAWTON, OK	BLANK0000028992	
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	97.0 km
	K47KI-D	D20	LD	APP	DUNCAN, OK	BLANK0000029423	57.3
	K21JN-D	D21	LD	LIC	ERICK, OK	BLDTT20100802AZU	144.5
	KUOT-CD	D21	DC	CP	OKLAHOMA CITY, OK	BLANK0000033588	112.5
	KTOU-LD	D21	LD	LIC	OKLAHOMA CITY, OK	BLDTL20110519AAQ	111.8
	K21IT-D	D21	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABG	106.7
	KDTX-TV	D21	DT	CP	DALLAS, TX	BLANK0000034792	254.7
	K21KJ-D	D21	LD	CP	MINERAL WELLS, TX	BLANK0000001185	243.6
	K22JQ-D	D22	LD	LIC	ARDMORE, OK	BLDTL20140224ACC	111.4
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	82.2

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	7052.9	182,345	6894.7	180,538	0.42 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KKTM-LD D21+ LD APP	43.1	58	27.1 9
K47KI-D D20 LD APP	155.9	714	140.8 697
K21JN-D D21 LD LIC	6.0	0	2.0 0
KUOT-CD D21 DC CP	165.2	675	119.1 575
KTOU-LD D21 LD LIC	33.0	150	6.0 58
K21IT-D D21 LD LIC	52.0	69	28.0 32
KDTX-TV D21 DT CP	23.1	5	4.0 0
KAUZ-TV D22 DT LIC	4.0	0	4.0 0

Interference to BLDTT20100225ABG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21IT-D	D21	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABG	
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	109.1 km
	K38GL-D	D21	LD	APP	LAWTON, OK	BLANK0000028992	106.7
	KUOT-CD	D21	DC	CP	OKLAHOMA CITY, OK	BLANK0000033588	115.9
	K41KS-D	D21	LD	APP	SEILING, OK	BLANK0000031244	69.8
	KTOU-LD	D22	LD	APP	OKLAHOMA CITY, OK	BLANK0000051682	112.2

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	2275.5	28,124	2252.6	27,970	0.04 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KKTM-LD D21+ LD APP	4.0	0	1.0 0
K38GL-D D21 LD APP	19.9	74	19.9 74
KUOT-CD D21 DC CP	8.9	10	7.9 10
K41KS-D D21 LD APP	17.8	12	16.8 12

Interference to BLDTT20100225ABG LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21IT-D	D21	LD	LIC	WEATHERFORD, OK	BLDTT20100225ABG	
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	109.1 km
	K38GL-D	D21	LD	APP	LAWTON, OK	BLANK0000028992	106.7
	KUOT-CD	D21	DC	CP	OKLAHOMA CITY, OK	BLANK0000033588	115.9
	KTOU-LD	D21	LD	LIC	OKLAHOMA CITY, OK	BLDTL20110519AAQ	112.2
	K41KS-D	D21	LD	APP	SEILING, OK	BLANK0000031244	69.8

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	2275.5	28,124	2252.6	27,970	0.04 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KKTM-LD D21+ LD APP	4.0	0	1.0 0
K38GL-D D21 LD APP	19.9	74	19.9 74
KUOT-CD D21 DC CP	8.9	10	6.0 2
KTOU-LD D21 LD LIC	2.0	8	0.0 0
K41KS-D D21 LD APP	17.8	12	16.8 12

Interference to BLDTT20100907ACP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21IR-D	D21	LD	LIC	CHILDRESS, TX	BLDTT20100907ACP	

Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	85.7 km
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
2325.6	7,241	2315.5	7,241	2315.5	7,241	2291.3	7,232
							1.04 0.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
KKTM-LD D21+ LD APP	24.1	9				24.1	9

Interference to BNPDTL20100406ACP CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K21LA-D	D21	LD	CP	MCCLEAN, TX	BNPDTL20100406ACP	
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	135.8 km
	K21JN-D	D21	LD	LIC	ERICK, OK	BLDTT20100802AZU	84.6
	K21IR-D	D21	LD	LIC	CHILDRESS, TX	BLDTT20100907ACP	95.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
2297.4	1,429	2174.7	1,417	2121.8	1,384	2120.8	1,384
							0.05 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KKTM-LD D21+ LD APP	2.0	0				1.0	0
K21JN-D D21 LD LIC	47.8	16		43.8	16	43.8	16
K21IR-D D21 LD LIC	9.0	17		5.0	17	5.0	17

Interference to BLANK0000029973 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K47LS-D	D22	LD	APP	HOLLIS, OK	BLANK0000029973	
Undesireds:	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	44.8 km
	K22JQ-D	D22	LD	LIC	ARDMORE, OK	BLDTL20140224ACC	250.5
	K43KT-D	D22	LD	APP	ELK CITY, OK	BLANK0000029961	84.2
	KAUZ-TV	D22	DT	LIC	WICHITA FALLS, TX	BLCDT20090724ACR	149.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3142.3	7,158	3116.2	7,156	2949.9	7,084	2949.9	7,084
							0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KKTM-LD D21+ LD APP	1.0	0				0.0	0
K43KT-D D22 LD APP	16.0	0		4.0	0	4.0	0
KAUZ-TV D22 DT LIC	162.3	72		150.3	72	149.3	72

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KKTM-LD	D21+	LD	APP	ALTUS, OK	KKTMLD21Pre-Post Trans	
Undesireds:	K21JN-D	D21	LD	LIC	ERICK, OK	BLDTT20100802AZU	66.3 km
	K38GL-D	D21	LD	APP	LAWTON, OK	BLANK0000028992	97.0
	K21IR-D	D21	LD	LIC	CHILDRESS, TX	BLDTT20100907ACP	85.7
	KDXT-TV	D21	DT	CP	DALLAS, TX	BLANK0000034792	316.1
	K21KJ-D	D21	LD	CP	MINERAL WELLS, TX	BLANK0000001185	294.0
Service area		Terrain-limited		IX-free		Percent IX	
3771.1	33,564	3735.0	33,531	3587.4	33,153	3.95	1.13
Undesired		Total IX		Unique IX		Prcnt Unique IX	
K21JN-D D21 LD LIC	41.1	29		39.0	29	1.05	0.09
K38GL-D D21 LD APP	107.5	284		103.5	282	2.77	0.84
K21IR-D D21 LD LIC	2.0	65		1.0	65	0.03	0.19
KDXT-TV D21 DT CP	1.0	2		0.0	0	0.00	0.00