

tvstudy v2.2.4 (Z2Qqz3)
Database: localhost, Study: KFXL 15 OMNI 250 KW 171128 1dgBT, Model: Longley-Rice
Start: 2017.11.28 15:35:10

Study created: 2017.11.28 15:35:10

Study build station data: LMS TV 2017-11-28 (40)

Proposal: KFXL-TV D15 DT APP LINCOLN, NE
File number: KFXL 15 OMNI 250 KW 171128 1dgBT
Facility ID: 84453
Station data: User record
Record ID: 2516
Country: U.S.
Zone: II

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	KTIV	D14	DT	CP	SIOUX CITY, IA	BLANK0000027439	209.2 km
No	KTIV	D14	DT	APP	SIOUX CITY, IA	BLANK0000034419	209.2
No	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	394.5
Yes	KSNW	D15	DT	APP	WICHITA, KS	BLANK0000034801	337.3
Yes	KSNW	D15	DT	CP	WICHITA, KS	BLANK0000028468	337.3
No	KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	356.6
Yes	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	396.5
No	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	198.3
No	KTKA-TV	D16	DT	APP	TOPEKA, KS	BLANK0000034844	198.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
Latitude: 40 43 39.70 N (NAD83)
Longitude: 96 36 50.90 W
Height AMSL: 616.0 m
HAAT: 226.0 m
Peak ERP: 250 kW
Antenna: Omnidirectional
Elev Pattnr: Generic
Elec Tilt: 1.00

38.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	250 kW	233.2 m	80.5 km
45.0	250	221.1	79.6
90.0	250	210.0	78.8
135.0	250	198.6	77.9
180.0	250	207.4	78.6
225.0	250	232.5	80.5
270.0	250	236.5	80.7
315.0	250	251.8	82.0

Database HAAT does not agree with computed HAAT
Database HAAT: 226 m Computed HAAT: 224 m

Distance to Canadian border: 893.8 km

Distance to Mexican border: 1292.2 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 278.7 degrees Distance: 154.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 267.8 degrees Distance: 731.0 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 BLANK0000034801 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSNW	D15	DT	APP	WICHITA, KS	BLANK0000034801	
Undesireds:	KFXL-TV	D15	DT	BL	LINCOLN, NE	DTVBL84453	349.7 km
	KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	337.3
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	362.2
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	244.3
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	153.9
	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	196.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33038.1	795,853	32571.9		795,335	31182.7	793,954	31118.4 793,898 0.21 0.01
Undesired			Total IX	Unique IX, before		Unique IX, after	
KFXL-TV D15 DT BL	0.0		0	0.0		0	
KFXL-TV D15 DT APP	64.3		56			64.3	56
KHOG-TV D15 DT LIC	31.8		10	7.9		7.9	7
KTBO-TV D15 DT LIC	1365.2		1,369	1341.3		1,366	1,366
KOOD D16 DT LIC	16.0		5	16.0		5	5

 Interference to BLANK0000028468 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSNW	D15	DT	CP	WICHITA, KS	BLANK0000028468	
Undesireds:	KFXL-TV	D15	DT	BL	LINCOLN, NE	DTVBL84453	349.7 km
	KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	337.3
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	362.2
	KTBO-TV	D15	DT	LIC	OKLAHOMA CITY, OK	BLCDT20111028AAX	244.3
	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	196.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
28919.0	789,138	28691.9		788,917	28055.8	786,613	28027.6 786,587 0.10 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
KFXL-TV D15 DT BL	0.0		0	0.0		0	
KFXL-TV D15 DT APP	28.1		26			28.1	26
KHOG-TV D15 DT LIC	4.0		0	0.0		0.0	0
KTBO-TV D15 DT LIC	636.2		2,304	632.2		2,304	2,304

 Interference to BLEDT20030108ABK LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KFXL-TV	D15	DT	BL	LINCOLN, NE	DTVBL84453	408.9 km
	KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	396.5
	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	203.9
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	309.4
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
	WICS	D15	DT	CP	SPRINGFIELD, IL	BLANK0000027418	321.2
	KOZK	D16	DT	CP	SPRINGFIELD, MO	BLANK0000026208	162.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41407.6	804,745	41184.8	803,129	40922.3	799,589	40918.3	799,445	0.01	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
KFXL-TV D15 DT BL	0.0	0		0.0		0			
KFXL-TV D15 DT APP	4.0	144				4.0		144	
KHOG-TV D15 DT LIC	67.4	272		43.6		196		43.6	
KYOU-TV D15 DT LIC	23.9	717		15.9		667		15.9	
WICS D15 DT CP	48.1	227		40.1		177		40.1	
KOZK D16 DT CP	154.9	2,450		131.1		2,374		131.1	

Interference to BLEDT20030108ABK LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KFXL-TV	D15	DT	BL	LINCOLN, NE	DTVBL84453	408.9 km
	KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	396.5
	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	203.9
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	309.4
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
	WICS	D15	DT	CP	SPRINGFIELD, IL	BLANK0000027418	321.2
	KOZK	D16	DT	APP	SPRINGFIELD, MO	BLANK0000034615	162.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41407.6	804,745	41184.8	803,129	40890.5	797,788	40886.5	797,644	0.01	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
KFXL-TV D15 DT BL	0.0	0		0.0		0			
KFXL-TV D15 DT APP	4.0	144				4.0		144	
KHOG-TV D15 DT LIC	67.4	272		43.6		196		43.6	
KYOU-TV D15 DT LIC	23.9	717		15.9		667		15.9	
WICS D15 DT CP	48.1	227		40.1		177		40.1	
KOZK D16 DT APP	186.7	4,251		162.9		4,175		162.9	

Interference to BLEDT20030108ABK LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KFXL-TV	D15	DT	BL	LINCOLN, NE	DTVBL84453	408.9 km
	KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	396.5
	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	203.9
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	309.4
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
	WICS	D15	DT	APP	SPRINGFIELD, IL	BLANK0000034386	321.2
	KOZK	D16	DT	CP	SPRINGFIELD, MO	BLANK0000026208	162.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41407.6	804,745	41184.8	803,129	40862.3	799,434	40858.3	799,290	0.01	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after			
KFXL-TV D15 DT BL	0.0	0		0.0		0			
KFXL-TV D15 DT APP	4.0	144				4.0		144	
KHOG-TV D15 DT LIC	67.4	272		43.6		196		43.6	
KYOU-TV D15 DT LIC	23.9	717		15.9		667		15.9	
WICS D15 DT APP	108.1	382		100.1		332		100.1	
KOZK D16 DT CP	154.9	2,450		131.1		2,374		131.1	

Interference to BLEDT20030108ABK LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KFXL-TV	D15	DT	BL	LINCOLN, NE	DTVBL84453	408.9 km
	KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	396.5
	KNLC	D14	DT	APP	ST. LOUIS, MO	BLANK0000035663	203.9

KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	309.4
KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
WICS	D15	DT	APP	SPRINGFIELD, IL	BLANK0000034386	321.2
KOZK	D16	DT	APP	SPRINGFIELD, MO	BLANK0000034615	162.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
41407.6 804,745	41184.8 803,129	40830.6 797,633	40826.6 797,489	0.01 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
KFXL-TV D15 DT BL	0.0 0	0.0 0	
KFXL-TV D15 DT APP	4.0 144		4.0 144
KHOG-TV D15 DT LIC	67.4 272	43.6 196	43.6 196
KYOU-TV D15 DT LIC	23.9 717	15.9 667	15.9 667
WICS D15 DT APP	108.1 382	100.1 332	100.1 332
KOZK D16 DT APP	186.7 4,251	162.9 4,175	162.9 4,175

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	
Undesireds: KSNW	D15	DT	APP	WICHITA, KS	BLANK0000034801	337.3 km
KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	356.6

Service area	Terrain-limited	IX-free	Percent IX
19998.5 979,009	19909.8 970,104	19897.7 970,079	0.06 0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX
KSNW D15 DT APP	8.1 10	8.1 10	0.04 0.00
KSMN D15 DT LIC	4.0 15	4.0 15	0.02 0.00

Interference to proposal scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KFXL-TV	D15	DT	APP	LINCOLN, NE	KFXL 15 OMNI 250 KW 17	
Undesireds: KSNW	D15	DT	CP	WICHITA, KS	BLANK0000028468	337.3 km
KSMN	D15	DT	LIC	WORTHINGTON, MN	BLEDT20051219AGX	356.6

Service area	Terrain-limited	IX-free	Percent IX
19998.5 979,009	19909.8 970,104	19901.8 970,079	0.04 0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX
KSNW D15 DT CP	4.0 10	4.0 10	0.02 0.00
KSMN D15 DT LIC	4.0 15	4.0 15	0.02 0.00