

tvstudy v2.2.4 (Z2Qqz3)
Database: 127.0.0.1, Study: BLANK0000019249 (110), Model: Longley-Rice
Start: 2017.11.28 12:31:16

Study created: 2017.11.28 12:31:16

Study build station data: LMS TV 2017-11-26 (10)

Proposal: KYNE-TV D17 DT LIC OMAHA, NE
File number: BLANK0000019249
Facility ID: 47974
Station data: User record
Record ID: 65
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDT20110609ABE	208.7 km
No	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	253.9
No	KTKA-TV	D16	DT	APP	TOPEKA, KS	BLANK0000034844	253.9
No	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	253.9
No	KDAO-CD	D17-	DC	CP	MARSHALLTOWN, IA	BLANK0000034815	271.2
No	KDAO-CD	D17	DC	BL	MARSHALLTOWN, IA	DTVBL46753	271.2
Yes	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	270.9
No	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLCDT20110722ADS	408.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Latitude: 41 18 32.00 N (NAD83)
Longitude: 96 1 34.20 W
Height AMSL: 626.6 m
HAAT: 283.6 m

Peak ERP: 36.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.50

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	36.0 kW	252.9 m	71.5 km
45.0	36.0	312.2	76.1
90.0	36.0	306.5	75.6
135.0	36.0	285.5	73.9
180.0	36.0	294.5	74.6
225.0	36.0	281.0	73.5
270.0	36.0	267.5	72.5
315.0	36.0	258.2	71.9

Database HAAT does not agree with computed HAAT
Database HAAT: 284 m Computed HAAT: 282 m

Distance to Canadian border: 820.1 km

Distance to Mexican border: 1370.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 258.7 degrees Distance: 205.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 263.6 degrees Distance: 785.0 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 BLCDT20021120AAP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	127.2
	KSNF	D17	DT	CP	JOPLIN, MO	BLANK0000027633	335.0
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15867.3	220,262	15839.4	219,922	15759.2	219,708	15763.2 219,813	-0.03 -0.05
Undesired				Total IX	Unique IX, before	Unique IX, after	
KYNE-TV D17 DT BL				4.0 105	4.0 105		
KYNE-TV D17 DT LIC				0.0 0		0.0 0	
KOOD D16 DT LIC				60.2 58	60.2 58	60.2 58	
KTKA-TV D16 DT CP				16.0 51	16.0 51	16.0 51	

Interference to BLCDT20021120AAP LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	APP	TOPEKA, KS	BLANK0000034844	127.2
	KSNF	D17	DT	CP	JOPLIN, MO	BLANK0000027633	335.0
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15867.3	220,262	15839.4	219,922	15735.3	218,891	15739.3 218,996	-0.03 -0.05

Undesired		Total IX	Unique IX, before	Unique IX, after
KYNE-TV D17 DT BL	4.0	105	4.0 105	
KYNE-TV D17 DT LIC	0.0	0		0.0 0
KOOD D16 DT LIC	60.2	58	60.2 58	60.2 58
KTKA-TV D16 DT APP	39.9	868	39.9 868	39.9 868

Interference to BLCDT20021120AAP LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	127.2
	KSNF	D17	DT	CP	JOPLIN, MO	BLANK0000027633	335.0
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	15867.3 220,262	15839.4	219,922	15759.2	219,708	15763.2 219,813	-0.03 -0.05

Undesired		Total IX	Unique IX, before	Unique IX, after
KYNE-TV D17 DT BL	4.0	105	4.0 105	
KYNE-TV D17 DT LIC	0.0	0		0.0 0
KOOD D16 DT LIC	60.2	58	60.2 58	60.2 58
KTKA-TV D16 DT BL	16.0	51	16.0 51	16.0 51

Interference to BLCDT20021120AAP LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	127.2

KSNF	D17	DT	APP	JOPLIN, MO	BLANK0000034752	335.0
KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
15867.3	220,262	15839.4	219,922	15755.2	219,629	15759.2	219,734	-0.03 -0.05

Undesired		Total IX		Unique IX, before		Unique IX, after
KYNE-TV D17 DT BL	4.0	105	4.0	105		
KYNE-TV D17 DT LIC	0.0	0			0.0	0
KOOD D16 DT LIC	60.2	58	60.2	58	60.2	58
KTKA-TV D16 DT CP	16.0	51	16.0	51	16.0	51
KSNF D17 DT APP	4.0	79	4.0	79	4.0	79

Interference to BLCDT20021120AAP LIC scenario 5

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds: KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
KTKA-TV	D16	DT	APP	TOPEKA, KS	BLANK0000034844	127.2
KSNF	D17	DT	APP	JOPLIN, MO	BLANK0000034752	335.0
KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
15867.3	220,262	15839.4	219,922	15731.3	218,812	15735.3	218,917	-0.03 -0.05

Undesired		Total IX		Unique IX, before		Unique IX, after
KYNE-TV D17 DT BL	4.0	105	4.0	105		
KYNE-TV D17 DT LIC	0.0	0			0.0	0
KOOD D16 DT LIC	60.2	58	60.2	58	60.2	58
KTKA-TV D16 DT APP	39.9	868	39.9	868	39.9	868
KSNF D17 DT APP	4.0	79	4.0	79	4.0	79

Interference to BLCDT20021120AAP LIC scenario 6

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	127.2
	KSNF	D17	DT	APP	JOPLIN, MO	BLANK0000034752	335.0
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15867.3	220,262	15839.4	219,922	15755.2	219,629	15759.2 219,734	-0.03 -0.05
Undesired		Total IX		Unique IX, before		Unique IX, after	
KYNE-TV D17 DT BL	4.0	105	4.0	105			
KYNE-TV D17 DT LIC	0.0	0	0.0	0			
KOOD D16 DT LIC	60.2	58	60.2	58			
KTKA-TV D16 DT BL	16.0	51	16.0	51			
KSNF D17 DT APP	4.0	79	4.0	79			

Interference to BLCDT20021120AAP LIC scenario 7

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	CP	TOPEKA, KS	BLANK0000028133	127.2
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15867.3	220,262	15839.4	219,922	15759.2	219,708	15763.2 219,813	-0.03 -0.05
Undesired		Total IX		Unique IX, before		Unique IX, after	
KYNE-TV D17 DT BL	4.0	105	4.0	105			
KYNE-TV D17 DT LIC	0.0	0	0.0	0			
KOOD D16 DT LIC	60.2	58	60.2	58			

KTKA-TV D16 DT CP	16.0	51	16.0	51	16.0	51
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Interference to BLCDT20021120AAP LIC scenario 8

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	APP	TOPEKA, KS	BLANK0000034844	127.2
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15867.3 220,262	15839.4 219,922	15735.3 218,891	15739.3 218,996	-0.03 -0.05

Undesired	Total IX	Unique IX, before	Unique IX, after
KYNE-TV D17 DT BL	4.0 105	4.0 105	
KYNE-TV D17 DT LIC	0.0 0		0.0 0
KOOD D16 DT LIC	60.2 58	60.2 58	60.2 58
KTKA-TV D16 DT APP	39.9 868	39.9 868	39.9 868

Interference to BLCDT20021120AAP LIC scenario 9

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	
Undesireds:	KYNE-TV	D17	DT	BL	OMAHA, NE	DTVBL47974	266.4 km
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	270.9
	KOOD	D16	DT	LIC	HAYS, KS	BLEDT20030423ABE	122.5
	KTKA-TV	D16	DT	BL	TOPEKA, KS	DTVBL49397	127.2
	KUTU-CD	D17	DC	CP	TULSA, OK	BLANK0000026567	350.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15867.3 220,262	15839.4 219,922	15759.2 219,708	15763.2 219,813	-0.03 -0.05

Undesired	Total IX	Unique IX, before	Unique IX, after
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KYNE-TV D17 DT BL	4.0	105	4.0	105		
KYNE-TV D17 DT LIC	0.0	0			0.0	0
KOOD D16 DT LIC	60.2	58	60.2	58	60.2	58
KTKA-TV D16 DT BL	16.0	51	16.0	51	16.0	51

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000019249	
Undesireds:	KDAO-CD	D17-	DC	CP	MARSHALLTOWN, IA	BLANK0000034815	271.2 km
	Service area			Terrain-limited		IX-free	Percent IX
17072.1	980,072	16983.4		979,865	16983.4	979,865	0.00 0.00