

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K30BP-D 23 App 4p7 kW OMNI, Model: Longley-Rice
Start: 2022.08.22 13:22:21

Study created: 2022.08.22 13:22:21

Study build station data: LMS TV 2022-08-22

Proposal: K30BP-D D23 LD APP NORFOLK, NE
File number: K30BP-D 23 App 4p7 kW OMNI
Facility ID: 39666
Station data: User record
Record ID: 503
Country: U.S.

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

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	K36QD-D	N21-	TX	LIC	Omaha, NE	BLTT20060510AAY	0.2 km
Yes	WOWT	D22	DT	LIC	OMAHA, NE	BLANK0000188796	136.2
No	K22KD-D	D22	LD	LIC	SIOUX FALLS, SD	BLANK0000195953	172.2
No	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	310.2
No	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDT20090612AIO	310.2
No	KSNL-LD	D23	LD	LIC	SALINA, KS	BLANK0000059950	355.3
No	K23FY-D	D23	LD	LIC	FROST, MN	BLDTT20090730ACT	328.7
No	K23FO-D	D23	LD	LIC	JACKSON, MN	BLDTT20090811AAW	260.3
No	K23FP-D	D23	LD	LIC	OLIVIA, MN	BLDTT20120213ABJ	363.7
No	K23MF-D	D23	LD	LIC	ST. JAMES, MN	BLANK0000123670	321.7
No	KCDN-LD	D23	LD	LIC	KANSAS CITY, MO	BLANK0000112964	411.6
No	KTPE-LD	D23	LD	LIC	Kansas city, MO	BLANK0000120926	358.1
No	K23AA-D	D23	LD	LIC	BEATRICE, NE	BLDTT20081114ACW	204.6
No	KSXF-LD	D23	LD	LIC	SIOUX FALLS, SD	BLANK0000122223	181.1
No	K24GO-D	D24	LD	LIC	BLAIR, NE	BLDTT20081125ANJ	115.3
Yes	K24JG-D	D24	LD	LIC	NORFOLK, NE	BLDTT20140722ACZ	0.8
No	KSNB-TV	D24	DT	LIC	YORK, NE	BLANK0000186767	137.1
No	KCSD-TV	D24	DT	LIC	SIOUX FALLS, SD	BLEDT20081121AKM	181.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23
Mask: Stringent
Latitude: 42 1 45.50 N (NAD83)
Longitude: 97 21 25.50 W
Height AMSL: 619.2 m
HAAT: 0.0 m
Peak ERP: 4.70 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.75

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	4.70 kW	110.8 m	39.6 km
45.0	4.70	89.8	37.3
90.0	4.70	114.7	40.0
135.0	4.70	135.8	41.4
180.0	4.70	153.5	42.6
225.0	4.70	129.8	41.0
270.0	4.70	150.2	42.4

315.0 4.70 140.2 41.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 128 m

Distance to Canadian border: 772.8 km

Distance to Mexican border: 1395.9 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 216.3 degrees Distance: 152.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 255.1 degrees Distance: 691.0 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 BLANK0000188796 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOWT	D22	DT	LIC	OMAHA, NE	BLANK0000188796	
Undesireds:	K30BP-D	D23	LD	APP	NORFOLK, NE	K30BP-D 23 App 4p7 kW	136.2 km
	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	360.1
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDT20081112AIQ	396.5
	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	208.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
38728.0	1,381,072	38309.5	1,376,229	38276.5	1,376,180	38261.5 1,376,156	0.04 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K30BP-D	D23 LD APP	15.0	24			15.0 24	
KPXR-TV	D22 DT LIC	25.1	38	24.1	38	24.1 38	
KSNC	D22 DT LIC	2.0	0	2.0	0	2.0 0	
KCWI-TV	D23 DT APP	7.0	11	6.0	11	6.0 11	

Interference to BLANK0000188796 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOWT	D22	DT	LIC	OMAHA, NE	BLANK0000188796	
Undesireds:	K30BP-D	D23	LD	APP	NORFOLK, NE	K30BP-D 23 App 4p7 kW	136.2 km
	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	360.1
	KSNC	D22	DT	LIC	GREAT BEND, KS	BLCDT20081112AIQ	396.5
	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDT20090612AIO	208.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
38728.0	1,381,072	38309.5	1,376,229	38281.5	1,376,191	38266.5 1,376,167	0.04 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K30BP-D	D23 LD APP	15.0	24			15.0 24	
KPXR-TV	D22 DT LIC	25.1	38	24.1	38	24.1 38	
KSNC	D22 DT LIC	2.0	0	2.0	0	2.0 0	
KCWI-TV	D23 DT LIC	2.0	0	1.0	0	1.0 0	

Interference to BLDTT20140722ACZ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K24JG-D	D24	LD	LIC	NORFOLK, NE	BLDTT20140722ACZ	

Undesireds:	K30BP-D	D23	LD	APP	NORFOLK, NE	K30BP-D 23 App 4p7 kW	0.8 km
	K24JV-D	D24	LD	CP	ST. JAMES, MN	BLANK0000058896	321.8
	KSNB-TV	D24	DT	LIC	YORK, NE	BLANK0000186767	137.6
	KCSD-TV	D24	DT	LIC	SIOUX FALLS, SD	BLEDT20081121AKM	180.8

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
5010.2	52,233	4980.2	51,873	4497.1	48,422	4252.9	47,865	5.43	1.15

Undesired			Total IX		Unique IX, before		Unique IX, after
K30BP-D D23 LD APP	308.4		808			244.2	557
KSNB-TV D24 DT LIC	483.0		3,451	482.0	3,451	417.9	3,200
KCSD-TV D24 DT LIC	1.0		0	0.0	0	0.0	0

Interference to proposal scenario 1

**MX: 7.76% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K30BP-D	D23	LD	APP	NORFOLK, NE	K30BP-D 23 App 4p7 kW	
Undesireds:	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	310.2 km
	K24JG-D	D24	LD	LIC	NORFOLK, NE	BLDTT20140722ACZ	0.8

	Service area		Terrain-limited		IX-free		Percent IX
5221.0	59,490	5197.0	59,179	4578.9	54,587	11.89	7.76
Undesired			Total IX		Unique IX		Prcnt Unique IX
KCWI-TV D23 DT APP	8.0		4	7.0	4	0.13	0.01
K24JG-D D24 LD LIC	611.1		4,588	610.1	4,588	11.74	7.75

Interference to proposal scenario 2

7.75% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K30BP-D	D23	LD	APP	NORFOLK, NE	K30BP-D 23 App 4p7 kW	
Undesireds:	K24JG-D	D24	LD	LIC	NORFOLK, NE	BLDTT20140722ACZ	0.8 km

	Service area		Terrain-limited		IX-free		Percent IX
5221.0	59,490	5197.0	59,179	4585.9	54,591	11.76	7.75
Undesired			Total IX		Unique IX		Prcnt Unique IX
K24JG-D D24 LD LIC	611.1		4,588	611.1	4,588	11.76	7.75