

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K30BP-D 17 5 kW OMNI Strngnt, Model: Longley-Rice
Start: 2022.08.10 11:31:03

Study created: 2022.08.10 11:31:02

Study build station data: LMS TV 2022-08-09 #228

Proposal: K30BP-D D17 LD APP NORFOLK, NE
File number: K30BP-D 17 5 kW OMNI Strngnt
Facility ID: 39666
Station data: User record
Record ID: 273
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	KSXE-LD	D16	LD	LIC	SIOUX CITY, IA	BLANK0000179460	91.3 km
Yes	KMJF-LD	D16	LD	LIC	COLUMBUS, NE	BLANK0000055199	64.7
No	K17MH-D	D17	LD	LIC	CEDAR FALLS, IA	BLANK0000177243	381.2
No	KDIT-LD	D17	LD	LIC	FORT DODGE, IA	BLANK0000176977	282.9
No	KDIT-CD	D17-	DC	LIC	MARSHALLTOWN, IA	BLANK0000164388	343.7
No	KDIT-CD	D17-	DC	CP	MARSHALLTOWN, IA	BLANK0000170923	310.2
No	KLBY	D17	DT	LIC	COLBY, KS	BLANK0000086337	456.9
No	KAAS-TV	D17	DT	CP	SALINA, KS	BLANK0000035657	325.1
No	KAAS-TV	D17	DT	LIC	SALINA, KS	BLCDT20021120AAP	325.1
No	K17MX-D	D17	LD	LIC	FROST, MN	BLANK0000062750	328.7
No	K17MY-D	D17	LD	LIC	JACKSON, MN	BLANK0000064443	260.3
No	K17BV-D	D17	LD	LIC	REDWOOD FALLS, MN	BLDTT20120604AAY	340.4
No	K17MW-D	D17	LD	LIC	ST. JAMES, MN	BLANK0000064441	321.7
No	KAJF-LD	D17	LD	LIC	Kansas city, MO	BLANK0000124483	412.5
Yes	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000123806	136.5
No	KDSD-TV	D17	DT	LIC	ABERDEEN, SD	BLEDT20110816AAM	386.4
No	K17NF-D	D17+	LD	LIC	BROOKINGS, SD	BLANK0000059096	261.2
No	K17NF-D	D17+	LD	CP	BROOKINGS, SD	BLANK0000067617	261.2
No	KHGI-TV	D18	DT	CP	KEARNEY, NE	BLANK0000147792	197.8
No	KCWH-LD	D18	LD	LIC	LINCOLN, NE	BLANK0000059891	146.2
No	K36QD-D	N21-	TX	LIC	Omaha, NE	BLTT20060510AAY	0.2

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
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: 5.00 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.75

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	5.00 kW	110.8 m	40.6 km
45.0	5.00	89.8	38.3
90.0	5.00	114.7	41.0
135.0	5.00	135.8	42.5

180.0	5.00	153.5	43.7
225.0	5.00	129.8	42.1
270.0	5.00	150.2	43.4
315.0	5.00	140.2	42.8

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

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLANK0000055199 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMJF-LD	D16	LD	LIC	COLUMBUS, NE	BLANK0000055199	
Undesireds:	K30BP-D	D17	LD	APP	NORFOLK, NE	K30BP-D 17 5 kW OMNI S	64.7 km
	KDSM-TV	D16	DT	LIC	DES MOINES, IA	BLCDT20110609ABE	305.0
	K16NO-D	D16	LD	CP	BEATRICE / FAIRBURY, NE	BLANK0000071827	142.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5362.1		57,596		5314.7		57,382	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K30BP-D D17 LD APP		1.0		0		1.0	0
KDSM-TV D16 DT LIC		10.1		38		9.1	34
K16NO-D D16 LD CP		2.0		18		1.0	14

Interference to BLANK0000123806 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000123806	
Undesireds:	K30BP-D	D17	LD	APP	NORFOLK, NE	K30BP-D 17 5 kW OMNI S	136.5 km
	KDIT-CD	D17-	DC	LIC	MARSHALLTOWN, IA	BLANK0000164388	240.9
	KAAS-TV	D17	DT	CP	SALINA, KS	BLANK0000035657	270.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17083.2		971,280		17001.0		970,781	0.30 0.15
Undesired		Total IX		Unique IX, before		Unique IX, after	
K30BP-D D17 LD APP		51.1		1,494		51.1	1,494

Interference to BLANK0000123806 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000123806	

Undesireds:	K30BP-D	D17	LD	APP	NORFOLK, NE	K30BP-D 17 5 kW OMNI S	136.5 km
	KDIT-CD	D17-	DC	CP	MARSHALLTOWN, IA	BLANK0000170923	208.7
	KAAS-TV	D17	DT	CP	SALINA, KS	BLANK0000035657	270.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17083.2 971,280	17001.0 970,781	16979.9 970,266	16939.9 969,257	0.24 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
K30BP-D D17 LD APP 51.1 1,494			40.0 1,009
KDIT-CD D17- DC CP 21.1 515		21.1 515	10.1 30

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K30BP-D	D17	LD	APP	NORFOLK, NE	K30BP-D 17 5 kW OMNI S	
Undesireds: KAAS-TV	D17	DT	CP	SALINA, KS	BLANK0000035657	325.1 km
KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000123806	136.5
K17NF-D	D17+	LD	LIC	BROOKINGS, SD	BLANK0000059096	261.2

Service area	Terrain-limited	IX-free	Percent IX
5480.5 61,108	5456.5 60,806	5348.5 60,577	1.98 0.38

Undesired	Total IX	Unique IX	Prcnt Unique IX
KYNE-TV D17 DT LIC 108.0 229		108.0 229	1.98 0.38