

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Good12d3kwSAM300T, Model: Longley-Rice

Start: 2021.08.10 09:14:30

Study created: 2021.08.10 09:14:30

Study build station data: LMS TV 2021-08-10

Proposal: K45MS-D D12 LD APP GOODLAND, KS

Facility ID: 186881

Station data: User record

Record ID: 335

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	K11UW-D	D11	LD	LIC	AKRON, CO	BLDTV20111122ALL	158.4 km
No	KSNG	D11	DT	LIC	GARDEN CITY, KS	BLCDT20090630AAP	186.2
No	K12XK-D	D12	LD	LIC	DENVER, CO	BLANK0000131988	299.3
No	KSCW-DT	D12	DT	LIC	WICHITA, KS	BLCDT20110203ACC	372.1
Yes	KSNK	D12	DT	LIC	MCCOOK, NE	BLCDT20031017ABP	106.5
No	KRNE-TV	D12	DT	LIC	MERRIMAN, NE	BLEDT20090225ABL	374.5
No	K13XW-D	D13-	LD	LIC	AKRON, CO	BLANK0000152087	158.4
No	K13XW-D	N13-	TX	LIC	AKRON, CO	BLTTV20051004ADO	158.4
No	KUPK	D13	DT	LIC	GARDEN CITY, KS	BLCDT20090226ABS	206.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D12

Mask: Stringent

Latitude: 39 18 28.50 N (NAD83)
Longitude: 101 44 37.10 W
Height AMSL: 1145.0 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: SAM-SAM-160 (ID 1005900) 300.0 deg
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.120 kW	31.2 m	14.2 km
45.0	0.005	36.8	6.9
90.0	0.043	40.0	12.4
135.0	0.051	29.7	11.4
180.0	0.011	22.0	7.7
225.0	0.011	-7.4	7.7
270.0	1.43	-8.0	25.1
315.0	2.59	11.6	28.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 19 m

Distance to Canadian border: 1077.2 km

Distance to Mexican border: 939.9 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 56.4 degrees Distance: 334.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 287.9 degrees Distance: 311.0 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 BLCDT20031017ABP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KSNK	D12	DT	LIC	MCCOOK, NE	BLCDT20031017ABP	
Undesireds:	K45MS-D	D12	LD	APP	GOODLAND, KS		106.5 km
	KSCW-DT	D12	DT	LIC	WICHITA, KS	BLCDT20110203ACC	321.2
	KUON-TV	D12	DT	LIC	LINCOLN, NE	BLEDT20090406AIP	387.2
	KRNE-TV	D12	DT	LIC	MERRIMAN, NE	BLEDT20090225ABL	327.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24431.7	48,433	23421.7		45,383	22664.6	44,907	22543.6 44,861 0.53 0.10
Undesired		Total IX		Unique IX, before		Unique IX, after	
K45MS-D	D12 LD APP	121.1		46		121.1	46
KSCW-DT	D12 DT LIC	614.3		407	610.3 407	610.3	407
KUON-TV	D12 DT LIC	4.0		0	0.0 0	0.0	0
KRNE-TV	D12 DT LIC	142.7		69	142.7 69	142.7	69

Interference to proposal scenario 1

30.98% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K45MS-D	D12	LD	APP	GOODLAND, KS		
Undesireds:	KSNK	D12	DT	LIC	MCCOOK, NE	BLCDT20031017ABP	106.5 km
Service area		Terrain-limited		IX-free		Percent IX	
833.2	3,741	830.2		3,741	808.4	2,582	2.63 30.98
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KSNK	D12 DT LIC	21.8		1,159	21.8	1,159	2.63 30.98

