

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: BNPDTL20100510ABV, Model: Longley-Rice

Start: 2021.07.28 07:57:02

Study created: 2021.07.28 07:57:02

Study build station data: LMS TV 2021-07-28

Proposal: K47NK-D D8 LD APP Billings, MT

Facility ID: 186177

Station data: User record

Record ID: 117

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	K07WJ-D	D7	LD	LIC	COLSTRIP, MT	BLDTV20120625AAJ	133.0 km
No	K07ZR-D	D7	LD	LIC	HARLOWTON & SHAWMUT, MT	BLANK0000001712	121.6
No	K07WP-D	D7	LD	LIC	ROUNDUP, MT	BLANK0000152041	75.3
No	K07WP-D	N7	TX	LIC	ROUNDUP, MT	BLTTV19960822IA	75.3
No	KIFI-TV	D8	DT	LIC	IDAHO FALLS, ID	BLCDT20090612AGO	427.0
No	K08IP-D	D8	LD	LIC	BAKER, MT	BLDTV20111202AIW	321.8
No	K08KT-D	D8	LD	LIC	BOULDER, MT	BLDTV20090831ABW	298.0
Yes	KUSM-TV	D8	DD	LIC	BOZEMAN, MT	BLANK0000116395	196.5
No	K08JV-D	D8	LD	LIC	BROADUS, MT	BLDTV20120625AAD	236.1
No	K08FS-D	D8	LD	LIC	DODSON, MT	BLDTV20111116ASY	287.9
Yes	KFBB-TV	D8	DT	LIC	GREAT FALLS, MT	BLCDT20071108ADA	295.4
Yes	K08OW-D	D8	LD	LIC	HYSHAM, MT	BLDTV20090923AEC	92.0
No	K08PP-D	D8	LD	LIC	ROSEBUD, ETC, MT	BLDTV20120821AAQ	151.9
No	K08LI-D	D8	LD	LIC	WHITE SULPHUR SPRING, MT	BLDTV20120507AAX	206.9
No	KUMV-TV	D8	DT	LIC	WILLISTON, ND	BLCDT20090223ABG	427.0
No	KPTW	D8	DT	CP	CASPER, WY	BLANK0000129328	375.5
No	KPTW	D8	DT	LIC	CASPER, WY	BLEDT20090622ADW	375.6
No	KCWC-DT	D8	DT	LIC	LANDER, WY	BLEDT20070226AEY	359.6

No	K09OY-D	D9	LD	LIC	COLSTRIP, MT	BLDTV20120625AAK	133.0
No	K09YR-D	D9	LD	LIC	HARLOWTON, MT	BLDTV20120621ABI	121.6
No	K09LW-D	D9	LD	LIC	MARTINSDALE/LENNEP, MT	BLDTV20120619ACV	175.2
No	K34QX-D	N9	TX	LIC	ROUNDUP, MT	BLTTV19970409JB	75.3
No	DK09SF	N9	TX	APP	NORTH FORK, ETC., WY	BLTTV19830314ID	160.8
No	K09XK-D	D9	LD	LIC	SHERIDAN, WY	BLDVL20100907ACE	162.6
No	K31PY-D	N11	TX	LIC	ROUNDUP, MT	BLTTV4858	75.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D8
Mask: Stringent
Latitude: 45 48 26.00 N (NAD83)
Longitude: 108 20 30.00 W
Height AMSL: 1200.5 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: SAM-SAM-160 (ID 1005900) 270.0 deg
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.003 kW	237.1 m	15.0 km
45.0	0.027	203.0	24.6
90.0	0.059	93.4	20.5
135.0	0.027	110.2	18.4
180.0	0.003	115.8	10.8
225.0	0.677	121.3	38.4
270.0	3.00	206.0	56.7
315.0	0.677	205.7	46.1

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 162 m

Distance to Canadian border: 354.8 km

Distance to Mexican border: 1553.6 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 120.6 degrees Distance: 966.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 157.2 degrees Distance: 676.7 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 BLANK0000116395 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KUSM-TV	D8	DD	LIC	BOZEMAN, MT	BLANK0000116395	
Undesireds:	K47NK-D	D8	LD	APP	Billings, MT		196.5 km
	KIFI-TV	D8	DT	LIC	IDAHO FALLS, ID	BLCDT20090612AGO	280.1
	KFBB-TV	D8	DT	LIC	GREAT FALLS, MT	BLCDT20071108ADA	209.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25007.6	122,624	18715.7		109,924	18473.3	109,848	18212.0 109,767 1.41 0.07
Undesired		Total IX		Unique IX, before		Unique IX, after	
K47NK-D	D8 LD APP	282.4		82		261.3	81
KIFI-TV	D8 DT LIC	94.8		49	72.5 37	66.5	36
KFBB-TV	D8 DT LIC	169.8		39	147.6 27	134.5	27

Interference to BLCDT20071108ADA LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KFBB-TV	D8	DT	LIC	GREAT FALLS, MT	BLCDT20071108ADA			
Undesireds:	K47NK-D	D8	LD	APP	Billings, MT		295.4 km		
	KUSM-TV	D8	DD	LIC	BOZEMAN, MT	BLANK0000116395	209.4		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25105.2	93,515	21730.6		92,013	21522.5	91,717	21521.5	91,717	0.00 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
K47NK-D	D8	LD	APP	1.0	0		1.0	0	
KUSM-TV	D8	DD	LIC	208.1	296	208.1	296	208.1	296

Interference to BLDTV20090923AEC LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	K08OW-D	D8	LD	LIC	HYSHAM, MT	BLDTV20090923AEC			
Undesireds:	K47NK-D	D8	LD	APP	Billings, MT		92.0 km		
	K07WP-D	D7	LD	LIC	ROUNDUP, MT	BLANK0000152041	98.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
301.5	460	298.4		460	298.4	460	297.4	460	0.34 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
K47NK-D	D8	LD	APP	1.0	0		1.0	0	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K47NK-D	D8	LD	APP	Billings, MT		
Undesireds:	K07WP-D	D7	LD	LIC	ROUNDUP, MT	BLANK0000152041	75.3 km

KUSM-TV	D8	DD	LIC	BOZEMAN, MT		BLANK0000116395	196.5
Service area			Terrain-limited		IX-free	Percent IX	
3340.4	147,364	3238.0	147,267	3237.0	147,267	0.03	0.00
Undesired			Total IX		Unique IX	Prcnt Unique IX	
KUSM-TV D8 DD LIC		1.0	0	1.0	0	0.03	0.00