

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: CSprings4d500wZFP, Model: Longley-Rice  
Start: 2018.05.31 12:53:33

Study created: 2018.05.31 12:53:33

Study build station data: LMS TV 2018-05-31

Proposal: K47FJ D4 LD APP COLORADO SPRINGS, CO  
Facility ID: 22863  
Station data: User record  
Record ID: 850  
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
Yes	K03AO	N3	TX	LIC	MANITOU SPRINGS, CO	BLTTV943	9.8 km
No	K03EY-D	D3	LD	LIC	PARLIN, CO	BLDTV20120613ABK	168.9
No	K04HH-D	D4	LD	LIC	ASPEN, CO	BLDTV20130103AEI	179.6
No	K04OM	D4	LD	APP	COLLBRAN, CO	BDFCDTV20120425ADO	275.9
No	K04OM	N4	TX	LIC	COLLBRAN, CO	BLTTV19940803IC	275.9
No	KHDE-LD	D4	LD	APP	DENVER, CO	BLANK0000054184	134.1
No	K04NK-D	D4	LD	LIC	DOLORES, CO	BLDTV20110329ADE	362.2
No	K04KG	D4	LD	CP	GATEWAY, CO	BDFCDTV20120425ADK	354.4
No	K04KG	N4-	TX	LIC	GATEWAY, CO	BLTTV19940803IA	354.4
No	K04DH-D	D4	LD	LIC	GUNNISON, CO	BLDVL20091021ABP	187.2
No	K04PJ-D	D4	LD	LIC	HESPERUS, CO	BLDTV20110808ACL	333.4
No	K04ON-D	D4	LD	LIC	WEBER CANYON, CO	BLDTV20110329ACW	354.1
No	K04EG	N4	TX	LIC	TRENTON, NE	BLTTV1582	354.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D4  
Mask: Full Service  
Latitude: 38 53 46.00 N (NAD83)  
Longitude: 104 47 55.90 W  
Height AMSL: 2046.9 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 0.500 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.500 kW	11.5 m	22.3 km
45.0	0.500	-77.6	22.3
90.0	0.500	27.6	22.3
135.0	0.500	148.7	41.8
180.0	0.500	221.7	47.6
225.0	0.500	-56.5	22.3
270.0	0.500	-170.7	22.3
315.0	0.500	-177.7	22.3

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: -9 m

Distance to Canadian border: 1122.9 km

Distance to Mexican border: 805.9 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 65.5 degrees    Distance: 587.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 344.1 degrees    Distance: 141.3 km

ERP: 0.500 kW    Field strength: 9.2 dBu, 0.0 mV/m

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%

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Interference to BLTTV943 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K03AO	N3	TX	LIC	MANITOU SPRINGS, CO	BLTTV943	
Undesireds:	K47FJ	D4	LD	APP	COLORADO SPRINGS, CO		9.8 km
	K03AY	D3	LD	CP	RIDGWAY, ETC., CO	BLANK0000054147	261.0
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	10.0	1,706	9.0	1,706	9.0	1,706	11.11 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K47FJ D4 LD APP		1.0		0		1.0 0	

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K47FJ	D4	LD	APP	COLORADO SPRINGS, CO		
Undesireds:	K04OM	D4	LD	APP	COLLBRAN, CO	BDFCDTV20120425ADO	275.9 km
	KHDE-LD	D4	LD	APP	DENVER, CO	BLANK0000054184	134.1
	Service area		Terrain-limited		IX-free	Percent IX	
	2878.4	598,980	2744.2	598,729	2738.3	598,617	0.22 0.02
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KHDE-LD D4 LD APP		6.0		112	6.0	112	0.22 0.02