

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: Boulder4dDir100XFP, Model: Longley-Rice  
Start: 2018.05.14 08:21:58

Study created: 2018.05.14 08:21:58

Study build station data: LMS TV 2018-05-11

Proposal: KHDE-LD D4 LD APP BOULDER, CO  
Facility ID: 189604  
Station data: User record  
Record ID: 682  
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	K03AO	N3	TX	LIC	MANITOU SPRINGS, CO	BLTTV943	137.4 km
No	K03CR	N3	TX	LIC	BIG LARAMIE, ETC., WY	BLTTV4272	135.1
No	K04HH-D	D4	LD	LIC	ASPEN, CO	BLDTV20130103AEI	192.0
No	K04OM	D4	LD	APP	COLLBRAN, CO	BDFCDTV20120425ADO	278.9
No	K04OM	N4	TX	LIC	COLLBRAN, CO	BLTTV19940803IC	278.9
No	K04KG	D4	LD	CP	GATEWAY, CO	BDFCDTV20120425ADK	374.1
No	K04KG	N4-	TX	LIC	GATEWAY, CO	BLTTV19940803IA	374.1
No	K04DH-D	D4	LD	LIC	GUNNISON, CO	BLDVL20091021ABP	245.3
No	K04EG	N4	TX	LIC	TRENTON, NE	BLTTV1582	330.7

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: 40 5 59.00 N (NAD83)  
Longitude: 104 54 4.00 W  
Height AMSL: 1801.0 m  
HAAT: 0.0 m  
Peak ERP: 3.00 kW  
Antenna: SCA-CL26TRILOBE (ID 105649) 100.0 deg  
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.629 kW	321.6 m	55.2 km
45.0	2.81	306.5	66.8
90.0	2.65	282.7	64.8
135.0	1.66	279.1	60.7
180.0	2.11	248.6	60.7
225.0	0.011	226.6	23.0
270.0	0.006	280.1	22.1
315.0	0.005	303.6	22.0

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 281 m

Distance to Canadian border: 989.2 km

Distance to Mexican border: 935.8 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 78.4 degrees    Distance: 554.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 282.2 degrees    Distance: 28.2 km  
ERP: 0.006 kW    Field strength: 55.6 dBu, 0.6 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 proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KHDE-LD	D4	LD	APP	BOULDER, CO		
Undesireds:	K040M	D4	LD	APP	COLLBRAN, CO	BDFCDTV20120425ADO	278.9 km
	Service area		Terrain-limited		IX-free		Percent IX
	8146.3	2,283,828	8094.1	2,280,742	8094.1	2,280,742	0.00 0.00