

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: Denver4d3kwF, Model: Longley-Rice  
Start: 2021.02.19 09:18:53

Study created: 2021.02.19 09:18:53

Study build station data: LMS TV 2021-02-19

Proposal: KHDE-LD D4 LD APP DENVER, CO  
Facility ID: 189604  
Station data: User record  
Record ID: 1870  
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	K20KE-D	D3	LD	LIC	DENVER, CO	BLANK0000078393	25.3 km
No	K03AO	N3	TX	LIC	MANITOU SPRINGS, CO	BLTTTV943	137.4
No	K03CR	N3	TX	LIC	BIG LARAMIE, ETC., WY	BLTTTV4272	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	BLTTTV19940803IC	278.9
No	K04KG	D4	LD	CP	GATEWAY, CO	BDFCDTV20120425ADK	374.1
No	K04KG	N4-	TX	LIC	GATEWAY, CO	BLTTTV19940803IA	374.1
No	K04DH-D	D4	LD	LIC	GUNNISON, CO	BLDVL20091021ABP	245.3
Yes	K04RY-D	D4+	LD	LIC	MANITOU SPRINGS, CO	BLANK0000117619	134.1
No	K04EG	N4	TX	LIC	TRENTON, NE	BLTTTV1582	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: 1801.4 m  
HAAT: 0.0 m  
Peak ERP: 3.00 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	322.0 m	68.2 km
45.0	3.00	306.9	67.4
90.0	3.00	283.1	65.9
135.0	3.00	279.5	65.6
180.0	3.00	249.0	63.6
225.0	3.00	227.0	62.0
270.0	3.00	280.5	65.7
315.0	3.00	304.0	67.2

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

\*\*Proposal exceeds field strength limit at Table Mountain receiving zone  
Conditions at Table Mountain receiving zone:  
Bearing: 282.2 degrees    Distance: 28.2 km  
ERP: 3.00 kW    Field strength: 82.5 dBu, 13.3 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 BLANK0000078393 LIC scenario 1  
\*\*IX: 3.11% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K20KE-D	D3	LD	LIC	DENVER, CO	BLANK0000078393	
Undesireds:	KHDE-LD	D4	LD	APP	DENVER, CO		25.3 km
	KBRO-LD	D2	LD	LIC	Lyons, CO	BLANK0000117547	69.3
	K03AY	D3	LD	CP	RIDGWAY, ETC., CO	BLANK0000054147	348.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9331.8	1,382,505	9246.5	1,372,897	9242.5	1,361,440	9053.8 1,319,103	2.04 3.11
Undesired		Total IX		Unique IX, before		Unique IX, after	
KHDE-LD	D4 LD APP	188.7	42,337	188.7	42,337		
KBRO-LD	D2 LD LIC	4.0	11,457	4.0	11,457		

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Interference to BLANK0000117619 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K04RY-D	D4+	LD	LIC	MANITOU SPRINGS, CO	BLANK0000117619	
Undesireds:	KHDE-LD	D4	LD	APP	DENVER, CO		134.1 km
	K04OM	D4	LD	APP	COLLBRAN, CO	BDFCDTV20120425ADO	275.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
2878.4	598,980	2744.2	598,729	2744.2	598,729	2737.3 598,617	0.25 0.02

Undesired		Total IX	Unique IX, before	Unique IX, after
KHDE-LD D4 LD APP	7.0	112		7.0 112

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KHDE-LD	D4	LD	APP	DENVER, CO		
Undesireds:	K20KE-D	D3	LD	LIC	DENVER, CO	BLANK0000078393	25.3 km
	K04OM	D4	LD	APP	COLLBRAN, CO	BDFCDTV20120425ADO	278.9
	K04RY-D	D4+	LD	LIC	MANITOU SPRINGS, CO	BLANK0000117619	134.1

	Service area		Terrain-limited		IX-free		Percent IX
13604.3	3,113,765	13343.5	3,102,255	13324.5	3,102,217	0.14	0.00

Undesired		Total IX	Unique IX	Prcnt Unique IX
K20KE-D D3 LD LIC	14.0	38	13.0 38	0.10 0.00
K04RY-D D4+ LD LIC	6.0	0	5.0 0	0.04 0.00