

tvstudy v2.2.2
Database: localhost, Study: KDVR-P12, Model: Longley-Rice
Start: 2017.06.28

Study created: 2017.06.28

Study build station data: LMS TV 2017-06-25 (12)

Proposal: KDVR-P12 D36 DT APP DENVER, CO
File number: KDVR-P12
Facility ID: 126
Station data: User record
Record ID: 462
Country: U.S.
Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDT20090611AAQ	0.5 km
K36DB-CD	D36	DC	LIC	AVON, VAIL, CO	BLDTA20120615ABO	111.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36
Latitude: 39 43 42.10 N (NAD83)
Longitude: 105 14 15.70 W
Height AMSL: 2323.7 m
HAAT: 291.0 m
Peak ERP: 590 kW
Antenna: DIE-TFU-22JSC/VP-R 3BP260 0.0 deg

Note: Proposed facility employs the elevation pattern for the proposed antenna with mechanical beam tilt of 0.75° at an azimuth of 110° True.

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	486 kW	475.5 m	105.8 km
45.0	112	605.6	101.5
90.0	211	609.6	107.2
135.0	251	534.0	104.4
180.0	19.0	142.7	58.5
225.0	24.0	53.6	48.8
270.0	20.7	39.3	43.7
315.0	300	-131.9	52.2

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1030.5 km

Distance to Mexican border: 890.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 74.9 degrees Distance: 591.9 km

Proposal is not within the West Virginia quiet zone area

**Proposal is within coordination distance of Table Mountain receiving zone
 **Proposal exceeds field strength limit at Table Mountain receiving zone
 Conditions at Table Mountain receiving zone:
 Bearing: 358.2 degrees Distance: 43.3 km
 ERP: 506 kW Field strength: 100.1 dBu, 101.5 mV/m

Study cell size: 2.00 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 BLCDT20090611AAQ LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDT20090611AAQ	
Undesireds:	KDVR	D36	DT	BL	DENVER, CO	DTVBL126	0.5 km
	KDVR-P12	D36	DT	APP	DENVER, CO	KDVR-P12	0.5
	KWGN-TV	D34	DT	LIC	DENVER, CO	BLCDT20091209ACA	0.4
	K36DB-CD	D36	DC	LIC	AVON, VAIL, CO	BLDTA20120615ABO	112.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
30219.5	3,794,400	26417.2	3,541,089	26237.2	3,528,374	26281.4	3,529,859	-0.17	-0.04
Undesired		Total IX		Unique IX, before		Unique IX, after			
KDVR	D36 DT BL	96.3	8,216	72.2	6,934				
KDVR-P12	D36 DT APP	40.2	5,529			28.1	5,449		
KWGN-TV	D34 DT LIC	107.8	5,781	83.7	4,499	95.7	5,701		

 Interference to BLDTA20120615ABO LIC, scenario 1
 Proposal causes no interference.

 Interference to proposal, scenario 1
 0.88% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDVR-P12	D36	DT	APP	DENVER, CO	KDVR-P12	
Undesireds:	KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDT20090611AAQ	0.5 km
	K36DB-CD	D36	DC	LIC	AVON, VAIL, CO	BLDTA20120615ABO	111.6

Service area		Terrain-limited		IX-free		Percent IX	
21386.0	3,402,324	19202.2	3,365,380	18642.0	3,335,874	2.92	0.88
Undesired		Total IX		Unique IX		Prct Unique IX	
KCNC-TV	D35 DT LIC	560.2	29,506	560.2	29,506	2.92	0.88