

# INTERFERENCE ANALYSIS FOR PROPOSED KDVR(TV), DENVER, COLORADO (CHANNEL 36)

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: kdvrp2, Model: Longley-Rice

Study build station data: LMS TV 2019-08-16

Proposal: KDVRP2 D36 DT APP DENVER, CO  
File number: kdvrp2  
Facility ID: 126  
Station data: User record  
Record ID: 4038  
Country: U.S.  
Zone: II

Search options:  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDDT20090611AAQ	0.5 km
No	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: 2348.7 m  
HAAT: 316.0 m  
Peak ERP: 1000 kW  
Antenna: DIE-TFU-26DSC/VP-R C170 MT 0.0 deg  
Elev Pattn: Generic  
Tilts: elec 1.00, mech 0.50 @ 80.0 deg

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	939 kW	500.5 m	114.3 km
45.0	900	630.6	121.5
90.0	850	634.6	121.2
135.0	983	559.0	118.4
180.0	672	167.7	78.4
225.0	48.0	78.6	56.2
270.0	34.6	64.3	52.5
315.0	208	-106.9	50.6

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: 1.4 degrees Distance: 43.3 km  
ERP: 947 kW Field strength: 103.0 dBu, 140.6 mV/m

There is a reduction in ERP/Field Strength toward the Table Mountain receiving zone as compared to the authorized and coordinated facility for KDVR. See attached TVStudy analysis results for the KDVR construction permit facility for reference.

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%

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Interference to BLCDDT20090611AAQ LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDDT20090611AAQ	
Undesireds:	KDVR	D36	DT	BL	DENVER, CO	DTVBL126	0.5 km
	KDVRP2	D36	DT	APP	DENVER, CO	kdvrp2	0.5
	KWGN-TV	D34	DT	LIC	DENVER, CO	BLCDDT20091209ACA	0.4
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	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	26173.3 3,514,833 0.24 0.38

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Undesired		Total IX	Unique IX, before	Unique IX, after
KDVR D36 DT BL	96.3	8,216	72.2	6,934
KDVRP2 D36 DT APP	180.2	24,675		
KWGN-TV D34 DT LIC	107.8	5,781	83.7	4,499
			63.8	1,581

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## Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KDVRP2	D36	DT	APP	DENVER, CO	kdvrp2	
Undesireds:	KCNC-TV	D35	DT	LIC	DENVER, CO	BLCDT20090611AAQ	0.5 km
	Service area			Terrain-limited		IX-free	Percent IX
	28089.5	3,691,373	25269.8	3,538,430	25098.0	3,535,324	0.68 0.09
Undesired				Total IX		Unique IX	Prcnt Unique IX
KCNC-TV D35 DT LIC		171.8		3,106	171.8	3,106	0.68 0.09

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