

tvstudy v2.2.2  
Database: localhost, Study: KQDK 0.56 KW, Model: Longley-Rice  
Start: 2017.05.19 09:29:09

Study created: 2017.05.19 09:29:02

Study build station data: LMS TV FCC LMS 5-17-17

Proposal: KQDK-CD D16 DC BL DENVER, CO  
File number: Proposed KQDK 0.56 kW  
Facility ID: 29455  
Station data: User record  
Record ID: 221  
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KETD	D15	DT	BL	CASTLE ROCK, CO	DTVBL37101	29.5 km
KPJR-TV	D17	DT	BL	GREELEY, CO	DTVBL166510	47.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16  
Mask: Full Service  
Latitude: 39 40 30.95 N (NAD83)  
Longitude: 104 52 25.92 W  
Height AMSL: 1769.0 m  
HAAT: 0.0 m  
Peak ERP: 0.560 kW  
Antenna: ERI-ALP4L1-HSOC-16 2.0 deg

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.542 kW	148.7 m	32.0 km
45.0	0.513	103.3	28.4
90.0	0.316	48.3	18.1
135.0	0.204	10.2	12.6
180.0	0.247	6.8	13.2
225.0	0.233	84.5	22.1
270.0	0.212	123.7	25.5
315.0	0.366	147.5	30.0

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 84 m

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

Distance to Canadian border: 1036.3 km

Distance to Mexican border: 889.7 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 73.7 degrees Distance: 563.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 326.8 degrees Distance: 58.9 km  
ERP: 0.423 kW Field strength: 39.1 dBu, 0.1 mV/m

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 DTVBL37101 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL166510 BL, scenario 1  
Proposal causes no interference.

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Interference to proposal, scenario 1  
1.38% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KQDK-CD	D16	DC	BL	DENVER, CO	KQDK 0.56 KW 17DT	
Undesireds:	KETD	D15	DT	BL	CASTLE ROCK, CO	DTVBL37101	29.5 km
	KPJR-TV	D17	DT	BL	GREELEY, CO	DTVBL166510	47.2
Service area		Terrain-limited		IX-free		Percent IX	
1798.1	2,001,191	1761.7	1,971,391	1612.3	1,944,149	8.48	1.38
Undesired		Total IX		Unique IX		Prct Unique IX	
KETD D15 DT BL		44.4	4,116	4.0	168	0.22	0.01
KPJR-TV D17 DT BL		145.5	27,074	105.0	23,126	5.96	1.17