

INTERFERENCE ANALYSIS FOR PROPOSED KTLP-LD, PUEBLO, COLORADO (CHANNEL 34)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: ktlp34a, Model: Longley-Rice

Study build station data: LMS TV 2021-02-14

Proposal: KTLP-LD D34 DC APP PUEBLO, CO
File number: ktlp34a
Facility ID: 15772
Station data: User record
Record ID: 3596
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KRMA-TV	D33	DT	LIC	DENVER, CO	BLANK0000073966	155.1 km
Yes	KWGN-TV	D34	DT	LIC	DENVER, CO	BLANK0000128311	162.0
No	KCNC-TV	D35	DT	LIC	DENVER, CO	BLANK0000086445	161.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34
Mask: Simple
Latitude: 38 22 21.40 N (NAD83)
Longitude: 104 33 39.90 W
Height AMSL: 1655.0 m
HAAT: 142.0 m
Peak ERP: 1.20 kW
Antenna: SCA-4DR-8S (ID 20753) 210.0 deg
Elev Pattn: Generic

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.002 kW	86.3 m	6.1 km
45.0	0.008	103.0	9.6
90.0	0.001	153.9	7.1
135.0	0.032	191.8	18.2
180.0	0.787	193.6	34.5
225.0	1.08	177.3	35.2
270.0	0.147	125.5	21.6
315.0	0.000	101.7	5.3

Distance to Canadian border: 1181.1 km

Distance to Mexican border: 753.8 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 59.7 degrees Distance: 596.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 343.1 degrees Distance: 203.0 km
ERP: 0.000642 kW Field strength: -41.7 dBu, 0.0 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%

Interference to BLANK0000128311 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KWGN-TV	D34	DT	LIC	DENVER, CO	BLANK0000128311	

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Undesireds:	KTLP-LD	D34	DC	APP	PUEBLO, CO	ktlp34a	162.0 km
	KRMA-TV	D33	DT	LIC	DENVER, CO	BLANK0000073966	7.0
	KCNC-TV	D35	DT	LIC	DENVER, CO	BLANK0000086445	0.4

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	30621.7 3,696,452	26948.7 3,544,028	26511.3 3,520,525	26479.4 3,516,059	0.12 0.13

Undesired		Total IX	Unique IX, before	Unique IX, after
KTLP-LD D34 DC APP	31.9	4,466		31.9 4,466
KRMA-TV D33 DT LIC	232.5	15,917	181.7 13,429	181.7 13,429
KCNC-TV D35 DT LIC	255.8	10,074	205.0 7,586	205.0 7,586

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTLP-LD	D34	DC	APP	PUEBLO, CO	ktlp34a	

Undesireds:	KWGN-TV	D34	DT	LIC	DENVER, CO	BLANK0000128311	162.0 km
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	Service area	Terrain-limited	IX-free	Percent IX
	1339.4 149,462	1291.2 148,973	1285.2 148,973	0.47 0.00

Undesired		Total IX	Unique IX	Prcnt Unique IX
KWGN-TV D34 DT LIC	6.0	0	6.0 0	0.47 0.00
