

tvstudy v2.2.2
Database: localhost, Study: KGHB 11.5 KW, Model: Longley-Rice
Start: 2017.06.19 10:34:04

Study created: 2017.06.19 10:33:54

Study build station data: LMS TV 2017-06-02 (11)

Proposal: KGHB-CD D21z DC APP PUEBLO, ETC., CO
File number: KGHB 11.5 KW
Facility ID: 24515
Station data: User record
Record ID: 493
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KRMT	D20	DT	BL	DENVER, CO	DTVBL20476	147.5 km
KFCT	D21	DT	LIC	FORT COLLINS, CO	BLCDT20070920ACM	253.2
KDCK	D21	DT	LIC	DODGE CITY, KS	BLEDT20030423ABG	388.1
KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	389.2
KXRM-TV	D22	DT	LIC	COLORADO SPRINGS, CO	BLCDT20030702ABE	49.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21z
Mask: Stringent
Latitude: 38 22 21.40 N (NAD83)
Longitude: 104 33 39.90 W
Height AMSL: 1649.0 m
HAAT: 0.0 m
Peak ERP: 11.5 kW
Antenna: DIE-TLP-8-SP/VP-R 0.0 deg

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	8.11 kW	80.3 m	38.9 km
45.0	0.539	97.0	27.3
90.0	0.424	147.9	30.1
135.0	0.453	185.8	32.7
180.0	2.54	187.6	41.8
225.0	0.981	171.3	35.9
270.0	1.07	119.5	33.0
315.0	6.00	95.7	39.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 136 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: 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: 11.4 kW Field strength: 1.0 dBu, 0.0 mV/m

No land mobile station failures found

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 DTVBL20476 BL, scenario 1
Proposal causes no interference.

Interference to BLCDDT20070920ACM LIC, scenario 1
Proposal causes no interference.

Interference to BLEDDT20030423ABG LIC, scenario 1
Proposal causes no interference.

Interference to BLANK0000001606 LIC, scenario 1
Proposal causes no interference.

Interference to BLCDDT20030702ABE LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KXRM-TV	D22	DT	LIC	COLORADO SPRINGS, CO	BLCDDT20030702ABE	
Undesireds:	KGHB-CD	D21	DC	BL	PUEBLO, ETC., CO	DTVBL24515	49.0 km
	KGHB-CD	D21z	DC	APP	PUEBLO, ETC., CO	KGHB 11.5 KW	49.0
	KCDO-TV	D23	DT	LIC	STERLING, CO	BLCDDT20100127ADD	163.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25017.7	1,843,363	22659.9	1,500,689	21774.6	1,492,473	21774.6 1,492,473	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
KGHB-CD D21 DC BL				80.0 261	80.0 261		
KGHB-CD D21z DC APP				80.0 261		80.0 261	
KCDO-TV D23 DT LIC				805.3 7,955	805.3 7,955	805.3 7,955	

Interference to proposal, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGHB-CD	D21z	DC	APP	PUEBLO, ETC., CO	KGHB 11.5 KW	
Undesireds:	KFCT	D21	DT	LIC	FORT COLLINS, CO	BLCDDT20070920ACM	253.2 km
	KXRM-TV	D22	DT	LIC	COLORADO SPRINGS, CO	BLCDDT20030702ABE	49.0
Service area		Terrain-limited		IX-free		Percent IX	
3868.9	186,492	3765.4	186,308	3741.6	186,240	0.63 0.04	
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KXRM-TV D22 DT LIC				23.9 68	23.9 68	0.63 0.04	