

FI 52776 K21CA-D

Minor Modification: Change location, change antenna rotation, no new construction, existing controlled site.

Study created: 2023.08.03 11:08:10

Study build station data: LMS TV 2023-07-31

Proposal: K21CA-D D21 LD LIC PLAINS, MT  
File number: move to 31 site  
Facility ID: 52776  
Station data: User record  
Record ID: 8  
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KTVM-TV	D20	DT	CP	BUTTE, MT	BLANK0000157471	238.6 km
No	K20KL-D	D20	LD	CP	DRUMMOND, MT	BLANK0000019042	152.3
No	K20KL-D	D20	LD	LIC	DRUMMOND, MT	BLD TT20131122AWR	152.3
No	DDK20CP-D	D20	LD	APP	ELMO, MT	BLD TT20091013ABT	77.6
Yes	KECI-TV	D20	DT	CP	MISSOULA, MT	BLANK0000156965	75.0
No	KREM	D20	DT	LIC	SPOKANE, WA	BLCDT20050623ABG	184.9
No	KAID	D21	DD	LIC	BOISE, ID	BLEDT20120719ABH	413.4
No	K21CC-D	D21	LD	LIC	LEWISTON, ID	BLANK0000005054	195.1
No	K21CC-D	N21	TX	LIC	LEWISTON, ID	BLTT19880525IL	195.1
Yes	K21NG-D	D21	LD	LIC	SANDPOINT, ID	BLANK0000059945	173.5
No	K21KA-D	D21	LD	LIC	FERNDALE, MT	BLD TT20091210ADQ	98.7
No	KUGF-TV	D21	DT	LIC	GREAT FALLS, MT	BLEDT20101008ACG	269.2
No	KHBB-LD	D21	LD	LIC	HELENA, MT	BLDTL20081126ADG	224.8
No	K21MW-D	D21	LD	LIC	THOMPSON FALLS, MT	BLANK0000063128	40.3
No	K21MS-D	D21	LD	LIC	LA GRANDE, OR	BLANK0000067873	318.1
No	K21OT-D	D21+	LD	LIC	PASCO-KENNEWICK, WA	BLANK0000179350	354.6
No	K21JQ-D	D21	DC	LIC	WALLA WALLA, WA	BLDTA20090721ABT	296.0
No	KYVE	D21	DT	LIC	YAKIMA, WA	BLEDT20030910ACL	438.7
No	K22NX-D	D22	LD	LIC	JULIAETTA, ID	BLANK0000092382	164.6
No	KLEW-TV	D22	LD	LIC	LEWISTON, ID	BLCDT20130726ABH	167.8
No	K22MI-D	D22	LD	LIC	DRUMMOND, MT	BLANK0000067772	152.3
No	KRTV	D22	DT	CP	GREAT FALLS, MT	BLANK0000206207	269.2
No	K22OH-D	D22	LD	CP	HELENA, MT	BLANK0000171193	227.6
No	K22KS-D	D22	LD	LIC	LIBBY, MT	BLD TT20111114AUC	128.6
No	K22MG-D	D22	LD	LIC	WOODS BAY, MT	BLANK0000059723	93.7
No	KXLY-TV	D22	LD	LIC	SPOKANE, WA	BLANK0000024398	184.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21  
Mask: Simple  
Latitude: 47 22 19.70 N (NAD83)  
Longitude: 114 51 32.40 W  
Height AMSL: 2086.7 m  
HAAT: 0.0 m  
Peak ERP: 1.09 kW  
Antenna: SCA-PR-450 (ID 95879) 330.0 deg  
Elev Pattnr: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.025 kW	1163.9 m	36.8 km
45.0	0.004	814.3	22.7
90.0	0.006	831.6	25.3
135.0	0.000	690.1	12.6

180.0	0.002	754.8	17.8
225.0	0.005	861.4	24.9
270.0	0.004	745.4	21.8
315.0	0.443	1036.3	54.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 862 m

Proposal 24.46 dBu contour does not cross Canadian border  
Distance to Canadian border: 181.0 km

Distance to Mexican border: 1628.8 km

Conditions at FCC monitoring station: Ferndale WA  
Bearing: 290.0 degrees    Distance: 596.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 132.7 degrees    Distance: 1111.2 km

No land mobile station failures found

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%

No IX check failures found.

**K21CA-D**

BLDTL-20091030AIB

Latitude: 47-31-14.70 N

Longitude: 114-57-31.40 W

ERP: 1.09 kW

Channel: 21

Frequency: 515.0 MHz

AMSL Height: 1165.0 m

Elevation: 1161.0 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.75

Prop Model: Longley-Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0




Receiver Ht AG: 10.0 m

Receiver Gain: 0 dB

Time Variability: 90.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

 > 51.0 dBuV/m 48.0 - 51.0 41.0 - 48.0