tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Casper32d5kwELTI0F, Model: Longley-Rice
Start: 2021.07.15 13:31:30

Study created: 2021.07.15 13:31:30

Study build station data: LMS TV 2021-07-15

    Proposal: K50NG-D D32 LD APP CASPER, WY
 Facility ID: 186216
Station data: User record
   Record ID: 572
     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
Yes	K31HT	N31+	TX	LIC	CASPER, WY	BLTTL20070628ACN	2.4 km
Yes	K31HT	D31+	LD	CP	CASPER, WY	BLANK0000152312	2.4
No	K31HT	N31+	TX	CP	CASPER, WY	BPTTL20140513ABY	2.3
No	K31LF-D	D31	LD	LIC	CLARETON, WY	BLANK0000124578	132.4
No	K31LW-D	D31	LD	CP	DOUGLAS, WY	BNPDTL20100510AEG	83.9
No	KCEC	D32	DT	LIC	BOULDER, CO	BLANK0000113858	352.9
No	K32NO-D	D32	LD	LIC	GLENWOOD SPRINGS, CO	BLANK0000074902	362.1
No	K32EX-D	D32	LD	LIC	PEETZ, CO	BLDTT20110808ABI	328.7
No	K32HL-D	D32	LD	LIC	RULISON, CO	BLANK0000090290	377.3
No	K32NP-D	D32	LD	LIC	BILLINGS, MT	BLANK0000064136	377.1
No	K32KM-D	D32	LD	CP	GREAT FALLS, MT	BNPDTL20100505AHD	285.0
No	K32IA-D	D32	LD	LIC	MANILA, ETC., UT	BLDTT20100111ABO	322.6
No	K32HV-D	D32	LD	LIC	VERNAL, ETC., UT	BLDTT20150205ABG	354.3
No	K32JN-D	D32	LD	LIC	BIG PINEY, ETC, WY	BLDTT20100308ABO	293.0
No	K32IF-D	D32	LD	LIC	NORTH FORK, ETC., WY	BLDTT20081212AAW	300.5
Yes	K32EL-D	D32	LD	LIC	SHOSHONI, WY	BLDTT20120807ABU	171.1
No	K33LT-D	D33	LD	CP	DOUGLAS, WY	BNPDTL20100510AEH	83.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D32
       Mask: Full Service
   Latitude:  42 44  3.00 N (NAD83)
  Longitude: 106 20  2.00 W
Height AMSL: 2488.0 m
       HAAT: 0.0 m
   Peak ERP: 5.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 0.0 deg
Elev Pattrn: Generic
```

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	5.00 kW	810.3 m	65.3 km
45.0	1.01	702.6	52.7
90.0	0.004	401.7	15.4
135.0	0.038	196.1	19.5
180.0	0.012	278.1	17.5
225.0	0.027	617.6	29.1
270.0	0.004	469.3	17.4
315.0	1.07	757.0	54.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 529 m

Distance to Canadian border: 696.4 km

Distance to Mexican border: 1217.2 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 104.4 degrees Distance: 684.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 162.2 degrees Distance: 300.7 km

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 BLTTL20070628ACN LIC scenario 1
**IX: 13.65% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K31HT	N31+	TX	LIC	CASPER, WY	BLTTL20070628ACN	
Undesireds:	K50NG-D	D32	LD	APP	CASPER, WY		2.4 km

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
50.4	468	30.2	381	30.2	381	27.2	329	10.00	13.65

Undesired	Total IX		Unique IX, before		Unique IX, after	
K50NG-D D32 LD APP	3.0	52			3.0	52

Interference to BLANK0000152312 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K31HT	D31+	LD	CP	CASPER, WY	BLANK0000152312	
Undesireds:	K50NG-D	D32	LD	APP	CASPER, WY		2.4 km
	K30LW-D	D30	LD	CP	CASPER, WY	BNPDTL20100510ACT	40.6
	K31LF-D	D31	LD	LIC	CLARETON, WY	BLANK0000124578	133.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	

2132.6	72,579	2014.2	72,481	1891.0	72,378	1878.9	72,315	0.64	0.09

Undesired	Total IX	Unique IX, before	Unique IX, after
K50NG-D D32 LD APP	22.1	106	12.1	63
K30LW-D D30 LD CP	122.2	86	122.2	86	113.2	60
K31LF-D D31 LD LIC	1.0	17	1.0	17	0.0	0

Interference to BLDTT20120807ABU LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K32EL-D	D32	LD	LIC	SHOSHONI, WY	BLDTT20120807ABU	
Undesireds:	K50NG-D	D32	LD	APP	CASPER, WY		171.1 km
	K32LS-D	D32z	LD	LIC	DRIGGS, ID	BLANK0000016547	223.5
	K32IF-D	D32	LD	LIC	NORTH FORK, ETC., WY	BLDTT20081212AAW	139.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4603.5	7,397	3822.3	6,908	3803.3	6,908	3799.3	6,908	0.10	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K50NG-D D32 LD APP	4.0	0	4.0	0
K32IF-D D32 LD LIC	19.0	0	19.0	0	19.0	0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K50NG-D	D32	LD	APP	CASPER, WY		
Undesireds:	K31HT	N31+	TX	LIC	CASPER, WY	BLTTL20070628ACN	2.4 km

Service area		Terrain-limited		IX-free		Percent IX	
4840.4	74,496	3869.4	44,748	3869.4	44,748	0.00	0.00

Interference to proposal scenario 2
20.35% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K50NG-D	D32	LD	APP	CASPER, WY		
Undesireds:	K31HT	D31+	LD	CP	CASPER, WY	BLANK0000152312	2.4 km

Service area		Terrain-limited		IX-free		Percent IX	
4840.4	74,496	3869.4	44,748	3796.1	35,641	1.89	20.35

Undesired	Total IX		Unique IX		Prcnt Unique IX	
K31HT D31+ LD CP	73.3	9,107	73.3	9,107	1.89	20.35

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K50NG-D	D32	LD	APP	CASPER, WY		

Service area		Terrain-limited		IX-free		Percent IX	
4840.4	74,496	3869.4	44,748	3869.4	44,748	0.00	0.00