

TVSTUDY ANALYSIS FOR PROPOSED K29KG-D OPERATION

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: K29KG Ham-T 300W CL-14-69 #2770, Model: Longley-Rice
Start: 2019.10.09 12:29:16

Study created: 2019.10.09 12:29:16

Study build station data: LMS TV 2019-10-08

Proposal: K29KG-D D29 LD APP IDAHO FALLS, ID
File number: K29KG Ham-T 300W CL-14-69
Facility ID: 128365
Station data: User record
Record ID: 2754
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K14IL	N14	TX	LIC	PINEDALE, ETC., WY	BLTT19921228IG	185.5 km
No	K15HR-D	N15	TX	LIC	MACKAY, ID	BLTT20060908AAH	137.1
Yes	K28LE-D	D28	LD	LIC	IDAHO FALLS, ID	BLDTL20140225ABP	44.9
No	KSAW-LD	D28	LD	CP	TWIN FALLS, ID	BLANK0000054775	184.5
Yes	K29KY-D	D29	LD	CP	BLACKFOOT, ID	BNPDTL20100609AHK	9.0
No	KIWB-LP	D29	LD	CP	BOISE, ID	BLANK0000053771	317.7
No	K29JG-D	D29	LD	CP	BURLEY, ID	BNPDTL20090825BOC	150.4
No	K26LE-D	D29	LD	CP	CASCADE, ID	BLANK0000054520	335.5
No	K29GV-D	D29	LD	LIC	HAGERMAN, ID	BLDTL20100113ADE	220.1
No	K29BM-D	D29	LD	LIC	MONTPELIER, ID	BLDTT20111116AYI	118.5
No	K29EY-D	D29	LD	LIC	PRESTON, ID	BLDTT20111116AIA	130.2
No	K29LY-D	D29	LD	LIC	SALMON, ID	BLANK0000059727	253.5
No	K29LG-D	D29	LD	LIC	SODA SPRINGS, ID	BLANK0000059259	81.8
No	K29MM-D	D29	LD	LIC	BILLINGS, MT	BLANK0000064137	421.4
No	KDBZ-CD	D29	DC	LIC	BOZEMAN, MT	BLANK0000075047	291.8
No	K29JT-D	D29	LD	CP	BUTTE, MT	BNPDTL20100310ABV	310.4
No	KUHM-TV	D29	DT	LIC	HELENA, MT	BLANK0000004580	400.6
No	KUHM-TV	D29	DT	APP	HELENA, MT	BLANK0000035768	400.6
No	K29IN-D	D29	LD	LIC	COALVILLE AND ADJ.AR, UT	BLDTT20090624AAY	267.2
No	K38MF-D	D29	LD	CP	DUCHESNE, UT	BLANK0000053482	376.4
No	K25HF-D	D29	LD	CP	HEBER CITY, UT	BLANK0000053441	304.8
No	K29FY-D	D29	LD	LIC	HENEFER/ECHO, UT	BLDTT20110314ACH	260.6
No	K39LB-D	D29	LD	CP	MANILA, ETC, UT	BLANK0000053496	345.3
No	K29EP	N29	TX	LIC	MORGAN, ETC., UT	BLTT20030905ABO	246.5
No	K29II-D	D29	LD	LIC	PARK CITY, UT	BLDTT20090414AFT	290.8
No	K40NV-D	D29	LD	CP	PEOA AND OAKLEY, UT	BLANK0000053032	289.6
No	KUPX-TV	D29	DT	LIC	PROVO, UT	BLCDT20020510AAP	287.8
No	K11BF	D29	LD	CP	RANDOLPH, UT	BLANK0000052885	202.3
No	K29IM-D	D29	LD	LIC	SAMAK, UT	BLDTT20090624ABL	301.5
No	K29HX-D	D29	LD	LIC	WANSHIP, UT	BLDTT20090624ADL	279.6
No	K29HG-D	D29	LD	LIC	JACKSON, WY	BLDTL20090224AAW	118.7
No	K29HV-D	D29	LD	LIC	LA BARGE, ETC., WY	BLDTT20070523ACE	198.4
No	K29IH-D	D29	LD	LIC	MEETEETSE, ETC., WY	BLDTT20120223ACF	293.4
No	K29IG-D	D29	LD	LIC	SUNLIGHT BASIN, WY	BLDTT20110127AAU	285.5
No	K30QH-D	D30	LD	LIC	BURLEY, ETC., ID	BLANK0000068251	143.2
No	K30KT-D	D30	LD	CP	MALTA, ID	BNPDTL20090825BOK	131.2
No	K30NC-D	D30	LD	CP	MONIDA, ID	BNPDTL20100609AHZ	146.3
No	K30OX-D	D30	LD	LIC	MONTPELIER, ID	BLANK0000063416	118.5
No	K30MY-D	D30	LD	CP	JACKSON, WY	BLANK0000071524	123.9
No	K31DC	N31	TX	LIC	FREEDOM, WY	BLTT20050303AAK	92.4
No	K33DS	N33-	TX	LIC	FREEDOM-ETNA, WY	BLTT19921130JH	99.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
Mask: Simple
Latitude: 43 14 31.00 N (NAD83)
Longitude: 112 15 25.70 W
Height AMSL: 1400.6 m
HAAT: 0.0 m

Peak ERP: 0.300 kW
Antenna: SCA-CL-1469 (ID 20778) 220.0 deg
Elev Pattn: Generic

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-8.0 m	3.7 km
45.0	0.000	2.6	3.7
90.0	0.000	-50.0	3.7
135.0	0.000	-119.2	3.7
180.0	0.039	-86.2	7.8
225.0	0.284	28.9	12.7
270.0	0.002	30.3	3.9
315.0	0.000	4.2	3.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -25 m

Distance to Canadian border: 639.9 km

Distance to Mexican border: 1189.2 km

Conditions at FCC monitoring station: Livermore CA
Bearing: 235.8 degrees Distance: 1009.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 118.2 degrees Distance: 674.7 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 BLDTL20140225ABP LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K28LE-D	D28	LD	LIC	IDAHO FALLS, ID	BLDTL20140225ABP	
Undesireds:	K29KG-D	D29	LD	APP	IDAHO FALLS, ID	K29KG Ham-T 300W CL-14	44.9 km
	K27MD-D	D27	LD	CP	IDAHO FALLS, ID	BNPDTL20100609AHO	17.6
	KWYB-LD	D28	LD	CP	BOZEMAN, MT	BLANK0000080859	238.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6451.2	188,898	5933.0	188,756	5878.6	188,754	5871.6 188,518	0.12 0.13
Undesired		Total IX		Unique IX, before		Unique IX, after	
K29KG-D	D29 LD APP	7.0	236			7.0 236	
K27MD-D	D27 LD CP	54.4	2	54.4	2	54.4 2	

Interference to BNPDTL20100609AHK CP scenario 1
****IX: 41.87% interference caused**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K29KY-D	D29	LD	CP	BLACKFOOT, ID	BNPDTL20100609AHK	
Undesireds:	K29KG-D	D29	LD	APP	IDAHO FALLS, ID	K29KG Ham-T 300W CL-14	9.0 km
	K28LE-D	D28	LD	LIC	IDAHO FALLS, ID	BLDTL20140225ABP	53.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
85.1	10,252	84.1	10,252	80.1	10,147	23.0 5,898	71.25 41.87
Undesired		Total IX		Unique IX, before		Unique IX, after	
K29KG-D	D29 LD APP	61.1	4,354			57.1 4,249	
K28LE-D	D28 LD LIC	4.0	105	4.0	105	0.0 0	

Interference to proposal scenario 1
51.21% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K29KG-D	D29	LD	APP	IDAHO FALLS, ID	K29KG Ham-T 300W CL-14	

Undesireds:	K28LE-D	D28	LD	LIC	IDAHO FALLS, ID	BLDTL20140225ABP	44.9 km
	K29KY-D	D29	LD	CP	BLACKFOOT, ID	BNPDTL20100609AHK	9.0
	KUPX-TV	D29	DT	LIC	PROVO, UT	BLCDT20020510AAP	287.8

Service area	Terrain-limited	IX-free	Percent IX
128.1 14,946	126.1 14,941	86.1 7,289	31.74 51.21

Undesired	Total IX	Unique IX	Prcnt Unique IX
K28LE-D D28 LD LIC	23.0 406	13.0 178	10.31 1.19
K29KY-D D29 LD CP	24.0 7,472	17.0 7,246	13.50 48.50
KUPX-TV D29 DT LIC	3.0 2	0.0 0	0.00 0.00