

**Note:**  
**Study cell size: 1.00 km**  
**Profile point spacing: 0.10 km**

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: K39MC\_Ch28\_4x1\_Move\_Pre, Model: Longley-Rice  
Start: 2019.04.17 19:02:48

Study created: 2019.04.17 18:12:28

Study build station data: LMS TV 2019-04-16

Proposal: K39MC-D D28 LD APP PASCO, WA  
File number: K39MC\_Ch28\_4x1\_Move  
Facility ID: 188578  
Station data: User record  
Record ID: 819  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel  
Protect baseline records from LPTV

Search options:  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K14HT	N14	TX	LIC	WALLA WALLA, ETC., WA	BLTT19910213IG	64.7 km
No	K20ES	N20z	TX	LIC	PENDLETON, ETC., OR	BLTTL19960301JC	102.5
No	K21CC-D	N21	TX	LIC	LEWISTON, ID	BLTT19880525IL	156.5
No	K24DX	N24z	TX	LIC	PENDLETON, ETC, OR	BLTTL19960301JB	102.5
No	K39DM	D27+	LD	CP	ELLENSBURG, WA	BLANK0000028952	138.2
Yes	KVEW	D27	DT	LIC	KENNEWICK, WA	BLANK0000063083	8.4
No	NEW	D27	LD	APP	QUINCY, WA	BNPDTL20090825ADQ	119.4
No	NEW	D27	LD	APP	QUINCY, WA	BNPDTL20090825ALR	138.9
No	KYUU-LD	D28	LD	LIC	BOISE, ID	BLDTL20120906ABB	349.0
No	K28MB-D	D28	LD	CP	MULLAN, ID	BNPDTL20100505AFD	292.3
No	K28MQ-D	D28	LD	CP	MISSOULA, MT	BNPDTL20101014ABP	394.8
No	K28FP-D	D28	LD	LIC	ASTORIA, OR	BLDTL20130710ACH	375.3
No	K28MH-D	D28	LD	APP	BEND, OR	BLANK0000068954	262.4
No	K28MH-D	D28	LD	CP	BEND, OR	BMPDTL20110713ABN	262.4
No	K28JC-D	D28	LD	LIC	ENTERPRISE, OR	BLDTT20110309AAH	149.8
No	K28GD-D	D28	LD	LIC	HEPPNER, ETC., OR	BLDTT20111117ARH	102.5
No	K28CQ-D	D28	LD	LIC	HOOD RIVER, OR	BLDTT20120514ACX	201.7
Yes	K28NY-D	D28	LD	LIC	LA GRANDE, OR	BLANK0000067875	115.4
No	K28OV-D	D28	LD	LIC	Madras, OR	BLANK0000063058	238.3
Yes	K28FT-D	D28	LD	LIC	MILTON-FREEWATER, OR	BLDTT20111206BCR	66.9
No	KOPB-TV	D28	LD	LIC	PORTLAND, OR	BLANK0000068708	292.8
No	K28IH-D	D28	LD	LIC	RAINIER, OR	BLDTT20091103AAJ	294.7
No	K28KJ-D	D28	LD	LIC	CHELAN, WA	BLDTL20111012ABP	203.0
No	K28KJ-D	D28	LD	CP	CHELAN, WA	BMPDTT20101012ABD	203.0
No	K42IH-D	D28	LD	CP	EAST WENATCHEE, ECT, WA	BLANK0000054491	166.7
No	K28QG-D	D28	LD	CP	ELLENSBURG, WA	BNPDTL20090825AEW	150.3
No	KIRO-TV	D28	LD	LIC	SEATTLE, WA	BLCDT20100429ACW	362.0
Yes	KAYU-TV	D28	DT	LIC	SPOKANE, WA	BLCDT20091029ACN	209.1
No	K28KW-D	D28	LD	LIC	SUNNYSIDE, WA	BLDTL20130719ABV	81.3
No	KBTC-TV	D28	LD	CP	TACOMA, WA	BLANK0000052906	300.0
No	KBTC-TV	D28	LD	APP	TACOMA, WA	BLANK0000068767	300.0
No	K29EL-D	D29	LD	LIC	LA GRANDE, OR	BLDTT20120625ABJ	134.4
No	K29EG-D	D29	LD	LIC	MILTON, ETC, OR	BLDTT20101122AJO	66.9
No	K29NO-D	D29	LD	LIC	THE DALLES, OR	BLANK0000068895	167.8
No	NEW	D29	LD	APP	ELLENSBURG, WA	BNPDTL20090825AKK	134.0
No	NEW	D29	LD	APP	ELLENSBURG, WA	BNPDTL20090825AEN	150.3
No	K29JB-D	D29	LD	LIC	MOSES LAKE, WA	BLDTL20131206AUE	109.7
No	KRLB-LD	D29	LD	CP	RICHLAND, ETC, WA	BLANK0000029420	26.4
No	K29NM-D	D29	LD	LIC	SPOKANE, WA	BLANK0000065361	209.1
No	KCYU-LD	D29	LD	LIC	YAKIMA, WA	BLANK0000055266	123.2
No	KCYU-LD	D29	LD	CP	YAKIMA, WA	BLANK0000068005	123.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28  
Mask: Full Service  
Latitude: 46 6 54.50 N (NAD83)  
Longitude: 119 1 33.90 W  
Height AMSL: 406.8 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: SIRA 4x1 0.0 deg  
Elev Pattn: Generic

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	288.4 m	55.8 km
45.0	3.16	272.0	46.7
90.0	0.074	257.5	26.1
135.0	0.009	141.7	11.7
180.0	0.003	40.4	4.8
225.0	0.009	-36.0	5.5
270.0	0.060	8.5	8.7
315.0	2.77	253.7	45.1

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 153 m

Distance to Canadian border: 320.7 km

Distance to Mexican border: 1509.3 km

Conditions at FCC monitoring station: Ferndale WA  
Bearing: 321.3 degrees Distance: 412.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 115.8 degrees Distance: 1296.2 km

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to BLANK0000063083 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVEW	D27	DT	LIC	KENNEWICK, WA	BLANK0000063083	
Undesireds:	K39MC-D	D28	LD	APP	PASCO, WA	K39MC_Ch28_4x1_Move	8.4 km
	KNDU	D26	DT	LIC	RICHLAND, WA	BLCDT20091007ACO	0.2
	KBTC-TV	D27	DT	APP	TACOMA, WA	BLANK0000035735	288.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26813.3	476,834	25806.3	463,322	25805.3	463,322	25802.3 463,322	0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K39MC-D	D28	LD	APP	3.0	0	3.0 0	
KNDU	D26	DT	LIC	1.0	0	1.0 0	

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Interference to BLANK0000067875 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K28NY-D	D28	LD	LIC	LA GRANDE, OR	BLANK0000067875	
Undesireds:	K39MC-D	D28	LD	APP	PASCO, WA	K39MC_Ch28_4x1_Move	115.4 km
	K28MH-D	D28	LD	APP	BEND, OR	BLANK0000068954	279.2
	K28JC-D	D28	LD	LIC	ENTERPRISE, OR	BLDTT20110309AAH	40.0

K28GD-D	D28	LD	LIC	HEPPNER, ETC., OR	BLDTT20111117ARH	112.1
K28KJ-D	D28	LD	LIC	CHELAN, WA	BLDTL20111012ABP	309.8
KAYU-TV	D28	DT	LIC	SPOKANE, WA	BLCDDT20091029ACN	242.4
K29EL-D	D29	LD	LIC	LA GRANDE, OR	BLDTT20120625ABJ	19.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5071.2 25,774	4268.7 25,373	4236.5 25,369	4236.5 25,369	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K39MC-D D28 LD APP	1.0 0	0.0 0	0.0 0
K28JC-D D28 LD LIC	13.0 0	10.0 0	10.0 0
K28GD-D D28 LD LIC	5.0 0	3.0 0	3.0 0
KAYU-TV D28 DT LIC	1.0 0	1.0 0	1.0 0
K29EL-D D29 LD LIC	18.1 4	14.1 4	14.1 4

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Interference to BLDTT20111206BCR LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K28FT-D	D28	LD	LIC	MILTON-FREEWATER, OR	BLDTT20111206BCR	
Undesireds:	K39MC-D	D28	LD	APP	PASCO, WA	K39MC_Ch28_4x1_Move	66.9 km
	KVEW	D27	DT	LIC	KENNEWICK, WA	BLANK0000063083	73.8
	K28MH-D	D28	LD	APP	BEND, OR	BLANK0000068954	280.3
	K28GD-D	D28	LD	LIC	HEPPNER, ETC., OR	BLDTT20111117ARH	105.9
	K28KJ-D	D28	LD	LIC	CHELAN, WA	BLDTL20111012ABP	257.7
	KAYU-TV	D28	DT	LIC	SPOKANE, WA	BLCDDT20091029ACN	207.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2555.8 66,740	2298.0 65,099	2076.4 64,891	2061.1 64,842	0.73 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
K39MC-D D28 LD APP	42.6 134	15.3 49	15.3 49
KVEW D27 DT LIC	16.2 23	2.0 0	2.0 0
K28GD-D D28 LD LIC	201.4 179	164.1 121	164.1 121
KAYU-TV D28 DT LIC	32.2 10	12.1 1	12.1 1

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Interference to BLCDDT20091029ACN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KAYU-TV	D28	DT	LIC	SPOKANE, WA	BLCDDT20091029ACN	
Undesireds:	K39MC-D	D28	LD	APP	PASCO, WA	K39MC_Ch28_4x1_Move	209.1 km

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
41542.3 809,907	36414.5 741,468	36414.5 741,468	36393.4 741,468	0.06 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K39MC-D D28 LD APP	21.1 0	21.1 0	21.1 0

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Interference to proposal scenario 1  
17.45% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K39MC-D	D28	LD	APP	PASCO, WA	K39MC_Ch28_4x1_Move	
Undesireds:	KVEW	D27	DT	LIC	KENNEWICK, WA	BLANK0000063083	8.4 km
	K28MH-D	D28	LD	APP	BEND, OR	BLANK0000068954	262.4
	K28GD-D	D28	LD	LIC	HEPPNER, ETC., OR	BLDTT20111117ARH	102.5
	K28FT-D	D28	LD	LIC	MILTON-FREEWATER, OR	BLDTT20111206BCR	66.9
	K28KJ-D	D28	LD	LIC	CHELAN, WA	BLDTL20111012ABP	203.0
	KAYU-TV	D28	DT	LIC	SPOKANE, WA	BLCDDT20091029ACN	209.1
	KBTC-TV	D28	LD	CP	TACOMA, WA	BLANK0000052906	300.0
	KRLB-LD	D29	LD	CP	RICHLAND, ETC, WA	BLANK0000029420	26.4
	KCYU-LD	D29	LD	LIC	YAKIMA, WA	BLANK0000055266	123.2

Service area	Terrain-limited	IX-free	Percent IX
3287.8 227,924	3157.5 225,578	2346.9 186,210	25.67 17.45

Undesired	Total IX	Unique IX	Prcnt Unique IX
KVEW D27 DT LIC	388.4 4,705	128.8 1,046	4.08 0.46
K28GD-D D28 LD LIC	306.6 703	124.1 33	3.93 0.01

K28FT-D	D28	LD	LIC	359.1	35,482	111.3	22,858	3.53	10.13
KAYU-TV	D28	DT	LIC	9.1	1,720	1.0	645	0.03	0.29
KRLB-LD	D29	LD	CP	279.5	12,286	65.6	1,448	2.08	0.64