



KEPR-TV - PASCO, WASHINGTON **SEPTEMBER 2023** **APPENDIX B** **150 kW - Channel 18** **Longley-Rice Interference Analysis**

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: KEPR-TV CP with DA, Model: Longley-Rice
 Start: 2023.09.14 11:53:36

Study created: 2023.09.14 11:53:35

Study build station data: LMS TV 2023-09-13

Proposal: KEPR-TV-DA D18 DT APP PASCO, WA
 File number: KEPR-TV-with-DA
 Facility ID: 56029
 Station data: User record
 Record ID: 165
 Country: U.S.
 Zone: II

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

Search options:
 Non-U.S. records included
 Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KVBI-CD	D17	DC	LIC	CLARKSTON, WA	BLANK0000099493	169.4 km
No	KCLP-CD	D18	DC	LIC	BOISE, ID	BLANK0000007378	356.4
Yes	KCDT	D18	DT	LIC	COEUR D'ALENE, ID	BLANK0000087275	260.6
No	KAJJ-CD	D18	DC	LIC	KALISPELL, MT	BLANK0000059782	422.9
Yes	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	280.4
No	KTVC	D18	DT	CP	ROSEBURG, OR	BLANK0000036020	461.8
No	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	455.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
 Latitude: 46 5 50.00 N (NAD83)
 Longitude: 119 11 33.00 W
 Height AMSL: 721.2 m
 HAAT: 367.0 m
 Peak ERP: 150 kW
 Antenna: KEPR-TFU-20GTH/VP-R 6T140 0.0 deg
 Elev Pattn: Generic
 Elec Tilt: 0.75

39.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	150 kW	491.4 m	99.8 km
45.0	81.5	511.6	96.2
90.0	106	283.3	79.7

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135.0	136	291.8	82.2
180.0	69.6	393.0	87.4
225.0	135	365.8	90.2
270.0	108	183.1	71.9
315.0	80.2	392.0	88.3

Database HAAT does not agree with computed HAAT
 Database HAAT: 367 m Computed HAAT: 364 m

Proposal 24.15 dBu contour does not cross Canadian border
 Distance to Canadian border: 322.7 km

Distance to Mexican border: 1508.6 km

Conditions at FCC monitoring station: Ferndale WA
 Bearing: 322.8 degrees Distance: 405.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 115.4 degrees Distance: 1306.9 km

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 BLANK0000087275 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCDT	D18	DT	LIC	COEUR D'ALENE, ID	BLANK0000087275	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	260.6 km
	KEPR-TV-DAD18	DT	APP	PASCO, WA	KEPR-TV-with-DA		260.6
	KAJJ-CD	D18	DC	LIC	KALISPELL, MT	BLANK0000059782	179.1
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	21062.9	698,389	15719.3	657,101	15188.8	654,890	15096.2 654,291 0.61 0.09
Undesired			Total IX	Unique IX, before	Unique IX, after		
KEPR-TV D18 DT BL		506.4	2,200	429.9	1,738		
KEPR-TV-DA D18 DT APP		599.1	2,799			522.5	2,337
KAJJ-CD D18 DC LIC		100.6	473	24.1	11	24.1	11

 Interference to BLANK0000002204 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	
Undesireds:	KEPR-TV	D18	DT	BL	PASCO, WA	DTVBL56029	280.4 km
	KEPR-TV-DAD18	DT	APP	PASCO, WA	KEPR-TV-with-DA		280.4
	KABH-CD	D17	DC	LIC	BEND, OR	BLDTA20131029ABN	0.4
	KTVK	D18	DT	CP	ROSEBURG, OR	BLANK0000036020	191.4
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	14887.3	201,310	11903.1	197,662	11739.3	195,936	11655.8 195,188 0.71 0.38
Undesired			Total IX	Unique IX, before	Unique IX, after		
KEPR-TV D18 DT BL		39.8	0	39.8	0		
KEPR-TV-DA D18 DT APP		127.2	748			123.2	748
KABH-CD D17 DC LIC		124.0	1,726	124.0	1,726	120.1	1,726

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEPR-TV-DAD18	D18	DT	APP	PASCO, WA	KEPR-TV-with-DA	
Undesireds:	KCDT	D18	DT	LIC	COEUR D'ALENE, ID	BLANK0000087275	260.6 km
	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	280.4
	Service area		Terrain-limited		IX-free	Percent IX	
	23923.8	469,025	22839.1	458,654	22819.2	458,654	0.09 0.00
Undesired				Total IX	Unique IX	Prcnt Unique IX	
KCDT D18 DT LIC				16.0 0	16.0 0	0.07 0.00	
KOHD D18 DT LIC				4.0 0	4.0 0	0.02 0.00	