

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: BLDTT20090610ACB - K49IX Puyallup Ch49 -> 18, FS Mask, 2xERP w-Cdn,
1.0-1.0km, 05-11-18, Model: Longley-Rice
Start: 2018.05.19 16:57:49

Study created: 2018.05.19 16:57:49

Study build station data: LMS TV LMS TV Data -- 5-11-2018

Proposal: K49IX-D D18 LD LIC PUYALLUP, WA
File number: BLDTT20090610ACB - K49IX w-FS Mask, 2xERP
Facility ID: 66788
Station data: User record
Record ID: 374
Country: U.S.

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

Search options:
Non-U.S. records included

Individual records excluded:
0000052230 KRUM-LD D18 LD APP *P SEATTLE, WA BLANK0000052230
0000052542 KUSE-LD D18 LD APP *P SEATTLE, WA BLANK0000052542

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K17HA-D	D17	LD	LIC	ASTORIA, OR	BLDTT20120713ADN	158.7 km
No	K17HA-D	D17	LD	APP	ASTORIA, OR	BPDTT20121012ACV	158.7
No	K17GV-D	D17	LD	LIC	Ranier, OR	BLANK0000049611	120.9
No	K17GV-D	N17-	TX	LIC	Ranier, OR	BLTT20070209ABT	120.9
No	K42CM-D	D17	LD	APP	CENTRALIA/CHEHALIS, WA	BLANK0000053452	91.5
No	K17IL-D	D17	LD	LIC	ELLENSBURG, ETC., WA	BLDTT20090506ACN	141.7
No	K17IZ-D	D17	LD	LIC	EVERETT, WA	BLDTL20101201AEX	96.1
No	K17KI-D	D17	LD	CP	YAKIMA, WA	BNPDTL20100422ADD	130.3
No	KCDT	D18	DT	CP	COEUR D'ALENE, ID	BLANK0000034666	420.5
No	K18DT-D	D18	LD	LIC	COEUR D'ALENE, ID	BLDTT20140609AAO	420.5
No	KOHD	D18	DT	LIC	BEND, OR	BLANK0000002204	351.6
No	KCKW-LD	D18	LD	CP	EUGENE, OR	BNPDTL20101001AAH	358.5
No	K18EL-D	D18	LD	LIC	NEWBERG/TIGARD, OR	BLDTT20140521ACS	209.7
No	K18FR-D	D18	LD	LIC	NEWPORT, OR	BLDTT20100721FZO	302.0
No	K18LB-D	D18	LD	CP	PHILOMATH, OR	BNPDTL20100514AIQ	306.7
No	KTVC	D18	DT	APP	ROSEBURG, OR	BLANK0000036020	450.0
No	KTVC	D18	DT	LIC	ROSEBURG, OR	BLCDT20060721AAR	445.4
No	K18HH-D	D18	LD	LIC	THE DALLES, OR	BLDTT20120621ABT	184.7
No	K18AD-D	D18	LD	LIC	EAST WENATCHEE, ETC., WA	BLDTT20100831ABA	140.8
No	KEPR-TV	D18	DT	APP	PASCO, WA	BLANK0000035749	263.2
No	KEPR-TV	D18	DT	LIC	PASCO, WA	BLCDT20140717ABN	263.2
No	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	172.8
No	KBCB	D19	DT	LIC	BELLINGHAM, WA	BLCDT20040128AKD	172.8
Yes	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	91.5
No	KCKA	D19	DT	LIC	CENTRALIA, WA	BLDTT20101217ABA	91.5
No	K44CK	D19	LD	APP	CHELAN, WA	BLANK0000053161	173.8
No	K19JX-D	D19	LD	LIC	YAKIMA, WA	BLDTL20141016ADC	151.0
No	CH4388	D17	DC	LIC	BECHER BAY, BC	BLANKCANLP30	164.1
No	CIVI-DT-2	D17	DT	LIC	VANCOUVER, BC	BLANKCANADA92	247.8
No	CHWM-TV-1	D18	DC	LIC	WHISTLER, BC	BLANKCANLP313	332.4

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
Mask: Full Service
Latitude: 47 10 24.30 N (NAD83)
Longitude: 122 15 55.40 W
Height AMSL: 140.0 m
HAAT: 0.0 m
Peak ERP: 4.40 kW
Antenna: SCA-4DR-16S Ch18 345.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.95 kW	28.1 m	25.2 km
45.0	0.539	15.3	15.8
90.0	0.006	-19.8	5.3
135.0	0.005	-37.1	5.2
180.0	0.031	-49.4	7.9
225.0	0.003	10.2	4.4
270.0	0.076	27.4	9.8
315.0	2.90	133.6	39.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 14 m

Proposal 24.15 dBu contour does not cross Canadian border
Distance to Canadian border: 143.7 km

Distance to Mexican border: 1671.1 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 353.9 degrees Distance: 199.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 113.6 degrees Distance: 1569.9 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLANK0000035737 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	
Undesireds:	K49IX-D	D18	LD	LIC	PUYALLUP, WA	BLDTT20090610ACB - K49	91.5 km
	KBCB	D19	DT	APP	BELLINGHAM, WA	BLANK0000035650	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25636.4	1,201,666	19670.5	1,008,718	18825.8	823,145	18825.8 823,145	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K49IX-D D18 LD LIC				1.0 1,886	0.0 0		
KBCB D19 DT APP				755.3 179,837	754.3 177,951		
KOXI-CD D20 DC LIC				89.4 5,736	89.4 5,736		

Interference to BLANK0000035737 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	
Undesireds:	K49IX-D	D18	LD	LIC	PUYALLUP, WA	BLDTT20090610ACB - K49	91.5 km
	KBCB	D19	DT	LIC	BELLINGHAM, WA	BLCDT20040128AKD	236.7
	KOXI-CD	D20	DC	LIC	PORTLAND, OR	BLANK0000001497	117.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25636.4	1,201,666	19670.5	1,008,718	18909.5	845,120	18909.5 845,120	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
K49IX-D	D18 LD LIC	1.0	1,886			0.0 0	
KBCB	D19 DT LIC	671.6	157,862	671.6	157,862	670.5 155,976	
KOXI-CD	D20 DC LIC	89.4	5,736	89.4	5,736	89.4 5,736	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K49IX-D	D18	LD	LIC	PUYALLUP, WA	BLDTT20090610ACB - K49	
Undesireds:	KEPR-TV	D18	DT	APP	PASCO, WA	BLANK0000035749	263.2 km
	KCKA	D19	DT	APP	CENTRALIA, WA	BLANK0000035737	91.5
Service area		Terrain-limited		IX-free		Percent IX	
1199.8	844,583	1106.6	822,223	1106.6	822,223	0.00 0.00	