

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: cBow15d10kwELTI170T, Model: Longley-Rice

Start: 2023.09.18 13:07:10

Study created: 2023.09.18 13:07:10

Study build station data: LMS TV 2023-09-17

Proposal: K15MW-D D15 LD APP BOW, WA

Facility ID: 187633

Station data: User record

Record ID: 1805

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	KVOS-TV	D14	DT	LIC	BELLINGHAM, WA	BLANK0000087123	34.4 km
No	KAPP	D14	DT	LIC	YAKIMA, WA	BLCDT20130829AEQ	266.4
No	K15IQ-D	D15	LD	LIC	ASTORIA, OR	BLANK0000166819	238.6
No	KOXO-CD	D15	DC	LIC	PORTLAND, OR	BLANK0000108944	338.4
No	K15IX-D	D15	LD	LIC	RAINIER, OR	BLDTT20130103ACW	268.4
No	K15KV-D	D15	LD	LIC	ROCKAWAY BEACH, OR	BLANK0000062845	333.6
No	K40AE-D	D15	LD	CP	CASHMERE, ECT, WA	BLANK0000054488	181.1
No	K15MI-D	D15	LD	LIC	CENTRALIA/CHELASIS, WA	BLANK0000087287	228.0
No	KVVK-CD	D15	DC	LIC	KENNEWICK, ETC., WA	BLDTA20100125ACB	365.5
No	KHQ-TV	D15	DT	LIC	SPOKANE, WA	BLCDT20100406AAP	394.9
No	K15KC-D	D15	LD	LIC	YAKIMA, WA	BLANK0000179018	267.1
Yes	KFFV	D16	DT	LIC	SEATTLE, WA	BLANK0000087122	105.1
No	KNDO	D16	DT	LIC	YAKIMA, WA	BLANK0000203231	266.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
Mask: Stringent
Latitude: 48 33 31.00 N (NAD83)
Longitude: 122 24 39.00 W
Height AMSL: 13.0 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 10.0 kW
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 170.0 deg
Elev Pattn: Generic

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.011 kW	-268.2 m	6.2 km
45.0	0.053	-227.4	9.2
90.0	0.067	-65.5	9.7
135.0	3.83	1.4	25.3
180.0	9.12	0.4	29.3
225.0	0.897	7.0	18.6
270.0	0.028	7.8	7.8
315.0	0.053	13.0	9.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: -66 m

Proposal 23.83 dBu contour does not cross Canadian border

Distance to Canadian border: 49.3 km

Distance to Mexican border: 1822.4 km

Conditions at FCC monitoring station: Ferndale WA

Bearing: 346.6 degrees Distance: 45.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 118.2 degrees Distance: 1647.0 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 BLANK0000087123 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KVOS-TV	D14	DT	LIC	BELLINGHAM, WA	BLANK0000087123	
Undesireds:	K15MW-D	D15	LD	APP	BOW, WA		34.4 km
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	25638.7 2,207,869	23108.8		2,129,754	23108.8 2,129,754	23102.8 2,129,754	0.03 0.00
	23258.8 3,175,911	20431.3		3,142,133	20431.3 3,142,133	20431.3 3,142,133	0.00 0.00
	(in Canada)						
Undesired				Total IX	Unique IX, before	Unique IX, after	
K15MW-D D15 LD APP		6.0		0		6.0 0	

Interference to BLANK0000087122 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFFV	D16	DT	LIC	SEATTLE, WA	BLANK0000087122	
Undesireds:	K15MW-D	D15	LD	APP	BOW, WA		105.1 km
	KORS-CD	D16	DC	LIC	PORTLAND, OR	BLANK0000108949	235.0
	KNDO	D16	DT	LIC	YAKIMA, WA	BLANK0000203231	181.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17339.3 4,018,325	16368.2 3,983,996	16332.8 3,983,673	16328.7 3,983,427	0.02 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
K15MW-D D15 LD APP	5.1 246	4.1 246	
KORS-CD D16 DC LIC	6.1 0	4.0 0	
KNDO D16 DT LIC	31.4 323	29.4 323	

Interference to proposal scenario 1
19.59% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K15MW-D	D15	LD	APP	BOW, WA		
Undesireds: KVOS-TV	D14	DT	LIC	BELLINGHAM, WA	BLANK0000087123	34.4 km

Service area	Terrain-limited	IX-free	Percent IX
869.1 82,926	806.3 79,385	599.7 63,836	25.62 19.59
Undesired	Total IX	Unique IX	Prcnt Unique IX
KVOS-TV D14 DT LIC	206.6 15,549	206.6 15,549	25.62 19.59