

THREE ANGELS BROADCASTING NETWORK, INC.

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Three Angels Broadcasting Network recognizes the interference caused to KTNW's newly elected channel as the channel the K51JG elected in its initial Phase 0 application which was constructed but later amended to channel 22. The antenna will be ordered shortly to correct the interference noted below. Reduction from 15kW to 3kW did not significantly reduce interference.

Study created: 2018.12.05 09:20:39

Study build station data: LMS TV 2018-12-04 (25)

Proposal: K51JG-D D22 (D25) LD CP YAKIMA, WA
File number: BLANK0000028988
Facility ID: 66980
Station data: LMS TV 2018-12-04 (25)
Record ID: 25076f916383e2fc01638e1c5bda1cce
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
No	KPXG-LD	D21	LD	CP	PORTLAND, OR	BLANK0000051710	204.9 km
No	K43MG-D	D21	LD	CP	HERMISTON, WA	BLANK0000054608	112.2
No	K51AE	D21-	LD	CP	MONITOR, ETC., WA	BLANK0000054486	109.9
No	KTBW-TV	D21	DT	CP	TACOMA, WA	BLANK0000027697	206.1
Yes	KYVE	D21	DT	LIC	YAKIMA, WA	BLEDT20030910ACL	1.0
No	K43GE-D	D22	LD	CP	JULIAETTA, ID	BLANK0000051749	292.8
No	KLEW-TV	D22	LD	LIC	LEWISTON, ID	BLCDDT20130726ABH	276.6
No	K40AJ-D	D22	LD	CP	BAKER VALLEY, OR	BLANK0000029892	302.3
No	KMCB	D22	DT	APP	COOS BAY, OR	BLANK0000035789	449.4
No	K22HO-D	D22	LD	LIC	COTTAGE GROVE, OR	BLDTT20090330AAP	364.0
Yes	K22JJ-D	D22	LD	LIC	MILTON-FREEWATER, OR	BLDTT20111206BCQ	190.4
No	K22IL-D	D22	LD	LIC	PRINEVILLE, ETC., OR	BLDTT20091202ACB	234.9
Yes	KPXG-TV	D22	DT	LIC	SALEM, OR	BLCDDT20110715ACN	204.9
Yes	K22KC-D	D22	LD	LIC	THE DALLES, OR	BLDTT20111202AFS	101.7
Yes	K22KC-D	D22	LD	CP	THE DALLES, OR	BDISDTT20060330AGF	101.7
No	KHPN-LD	D22	LD	CP	WARRENTON, OR	BLANK0000011217	260.1
No	K22JK-D	D22	LD	LIC	MOSES LAKE, WA	BLDTL20131206AUD	114.6
No	K41MM-D	D22	LD	CP	PATEROS, WA	BLANK0000049775	170.8
Yes	KTNW	D22	DT	LIC	RICHLAND, WA	BLANK0000063716	116.9
No	KXLY-TV	D22	LD	LIC	SPOKANE, WA	BLANK0000024398	270.3
Yes	K22JF-D	D22	LD	LIC	STEMILT, ECT, WA	BLDTT20120123AET	83.4
No	KCPQ	D22	LD	LIC	TACOMA, WA	BLCDDT20120924AEK	181.4
No	K38KV-D	D23	LD	APP	HOOD RIVER, OR	BLANK0000053668	119.5
No	K51EH-D	D23	LD	APP	THE DALLES, OR	BLANK0000053828	101.7
No	K23NE-D	D23	LD	LIC	ELLENSBURG, WA	BLANK0000063098	40.4
No	K23JU-D	D23	LD	LIC	PROSSER, WA	BLDTL20100504ALB	70.0
No	K23KI-D	D23	LD	LIC	Seattle, WA	BLANK0000008201	136.4
No	KIRO-TV	D23	DT	CP	SEATTLE, WA	BLANK0000034847	185.4
No	K51DR-D	D23	LD	CP	WENATCHEE, WA	BLANK0000054434	90.8
Yes	NEW	D23	LD	APP	YAKIMA, WA	BNPDTL20090825ANG	0.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22
Mask: Full Service
Latitude: 46 31 41.40 N (NAD83)
Longitude: 120 31 20.20 W
Height AMSL: 652.0 m
HAAT: 0.0 m
Peak ERP: 14.0 kW
Antenna: (replication) 0.0 deg
Elev Pattn: Generic

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.6 kW	319.8 m	57.7 km
45.0	13.2	253.8	53.9
90.0	7.99	230.1	50.0
135.0	5.92	384.5	56.4
180.0	6.96	384.3	57.3
225.0	6.29	342.7	54.8
270.0	6.01	184.5	45.9
315.0	10.1	240.3	51.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 293 m

Proposal 24.56 dBu contour does not cross Canadian border
Distance to Canadian border: 274.8 km

Distance to Mexican border: 1570.9 km

Conditions at FCC monitoring station: Ferndale WA
Bearing: 331.4 degrees Distance: 309.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 114.4 degrees Distance: 1419.7 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%

**IX check failure to BLANK00000063716 LIC scenario 1, 5.67% interference caused
**MX with BNPDTL20090825ANG APP scenario 1, 4.92% interference caused