Study created: 2017.07.12 13:24:32

Study build station data: LMS TV 2017-07-12 (1)

```
    Proposal: K51JG-D D22 LD LIC YAKIMA, WA
 File number: K51JG CH22 15KW
 Facility ID: 66980
Station data: User record
   Record ID: 2
     Country: U.S.
```

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
DK21AJ	D21	LD	APP	QUINCY, WA	BDFCDTT20120216AEC	103.7 km
KTBW-TV	D21	DT	APP	TACOMA, WA	BLANK0000027697	206.1
KTBW-TV	D21	DT	BL	TACOMA, WA	DTVBL67950	206.1
KYVE	D21	DT	LIC	YAKIMA, WA	BLEDT20030910ACL	1.0
KLEW-TV	D22	LD	LIC	LEWISTON, ID	BLCDT20130726ABH	276.6
K22HO-D	D22	LD	LIC	COTTAGE GROVE, OR	BLDTT20090330AAP	364.0
K22JJ-D	D22	LD	LIC	MILTON-FREEWATER, OR	BLDTT20111206BCQ	190.4
K22IL-D	D22	LD	LIC	PRINEVILLE, ETC., OR	BLDTT20091202ACB	234.9
KPXG-TV	D22	DT	LIC	SALEM, OR	BLCDT20110715ACN	204.9
K22KC-D	D22	LD	LIC	THE DALLES, OR	BLDTT20111202AFS	101.7
K22KC-D	D22	LD	CP	THE DALLES, OR	BDISDTT20060330AGF	101.7
KHPN-LD	D22	LD	CP	WARRENTON, OR	BLANK0000011217	260.1
K22JK-D	D22	LD	LIC	MOSES LAKE, WA	BLDTL20131206AUD	114.6
KTNW	D22	DT	APP	RICHLAND, WA	BLANK0000025245	116.9
KTNW	D22	DT	BL	RICHLAND, WA	DTVBL71023	116.9
KXLY-TV	D22	LD	LIC	SPOKANE, WA	BLANK0000024398	270.3
K22JF-D	D22	LD	LIC	STEMILT, ECT, WA	BLDTT20120123AET	83.4
KCPQ	D22	LD	LIC	TACOMA, WA	BLCDT20120924AEK	

181.4
K23JU-D   D23   LD LIC   PROSSER, WA   BLDTL20100504ALB
70.0
KIRO-TV   D23   DT CP   SEATTLE, WA   BLANK0000025164
185.4
K23KI-D   D23   LD LIC   Seattle, WA   BLANK0000008201
136.4
K23KI-D   D23   LD CP   Seattle, WA   BLANK0000024400
161.5
KIRO-TV   D23   DT BL   SEATTLE, WA   DTVBL66781
185.4
NEW   D23   LD APP   YAKIMA, WA
BNPDTL20090825ANG   0.3

Data is not available for AM station check

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: 15.0 kW
    Antenna: SCA-SL-8 (ID 23503) 145.0 deg

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	6.53 kW	319.8 m	53.8 km
45.0	6.53	253.8	50.2
90.0	11.4	230.1	51.8
135.0	14.7	384.5	61.4
180.0	13.7	384.3	61.0
225.0	7.99	342.7	56.1
270.0	6.44	184.5	46.3
315.0	7.56	240.3	50.3

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

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%

**MX with BNPDTL20090825ANG APP, 2.69% interference, scenario 1