

**Exhibit 18**  
**KNWV Minor Modification**  
**Contour Overlap Requirements**  
**Washington State University**

Service and interference contours for the proposed KNWV facility were calculated using data from the FCC's Consolidated Database System ("CDBS") and terrain data from the USGS 3 second terrain database. Using the FCC's online HAAT calculator and the standard 8 radials for full-service FM stations as specified in 47 CFR §73.313(d), the HAAT was calculated at 340 meters.

As shown in Table 18-1 below, the facilities proposed do not create prohibited overlap with any other facility.

Contour separation with first adjacent KRFP(CP), channel 212C3, Moscow, ID is detailed in Figure 18-1.

With respect to IF channel separation the data in Table 18-1 demonstrates compliance with 47 CFR §73.207(b)(1). The proposed KNWV facility has a reference distance of 26 km, which classifies it as class A FM facility.

The applicant believes that the proposed facility meets all of the pertinent requirements of 47 CFR §73.509 and 47 CFR §73.207(b)(1), and the provisions of 47 CFR §73.207(b)(2).

TABLE 18-1

KNWV Minor Modification Washington State University Average Protected F(50-50)= 25.94 km Standard Directional										
REFERENCE 46 27 26.0 N. 117 06 00.0 W.	CH#	213A	-	90.5	MHz, Pwr= 0.35 kW DA, HAAT= 339.5 M, COR= 930 M	DISPLAY DATES DATA 09-04-13 SEARCH 09-04-13				
CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* in km)
213A KNWV Clarkston		LIC _CX WA	0.0 0.0	0.00 BLED20090312ABV	46 27 26.0 117 06 00.0	0.420 322	44.3 908	12.8 Washington State Universit	-50.2*	-32.3*
213A KNWV Clarkston		CP DCX WA	0.0 0.0	0.00 BPED20100910ADU	46 27 26.0 117 06 00.0	0.420 322	17.7 908	5.4 Washington State Universit	-23.6*	-24.9*
213D K213BN Orofino		LIC DC_ ID	84.8 265.4	68.09 BLFT20081008AAH	46 30 33.0 116 12 59.0	0.050 233	36.7 969	7.0 Alacca Bible Conference, I	3.8	-10.5
212C3 KRFP Moscow		CP DCX ID	21.6 201.7	26.85 BMPED20110621ACO	46 40 54.0 116 58 13.0	1.100 302	20.7 1146	13.7 Radio Free Moscow, Inc.	0.2	4.5
213A KWCW Walla Walla		LIC _C_ WA	246.0 65.1	104.21 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	21.1 332	6.3 Aswc Radio Committee	47.9	5.3
210A KJEM Pullman		CP DCX WA	2.3 182.3	19.69 BMPED20121207AAE	46 38 03.4 117 05 22.1	0.300 246	0.2 1064	9.6 Washington State Universit	13.4	9.5
214A KZUU Pullman		LIC _CX WA	351.2 171.2	30.78 BLED20090210AAL	46 43 51.0 117 09 42.0	0.420 30	11.5 821	8.1 Washington State Universit	11.1	14.8
210A KJEM Pullman		APP DCX WA	337.4 157.2	28.83 BMPED20130705AAD	46 41 47.0 117 14 44.0	2.300 164	0.8 901	13.5 Washington State Universit	17.1	14.5
211C2 KNWO Cottonwood		CP _CX ID	131.2 311.7	65.24 BPED20100804AAZ	46 04 09.0 116 27 54.0	0.550 616	1.5 1759	33.3 Washington State Universit	29.3	30.6
211C3 KNWO Cottonwood		LIC _CN ID	131.2 311.7	65.24 BLED19940207KA	46 04 09.0 116 27 54.0	0.250 612	1.1 1759	27.4 Washington State Universit	29.7	36.5
216C KPBX-FM Spokane		LIC _CN WA	0.6 180.6	123.74 BMLED19831028AB	47 34 13.0 117 05 00.0	56.000 725	12.4 1571	91.5 Spokane Public Radio, Inc.	103.3	32.0
215C1 KKRH Grangeville		LIC _CX ID	131.0 311.7	100.35 BLED20110330ACC	45 51 42.0 116 07 25.0	1.900 709	2.9 1883	58.3 Calvary Chapel of Grangevi	63.0	40.6
212C2 KTVR-FM La Grande		LIC _CX OR	201.2 20.7	136.70 BLED20040504ABP	45 18 33.0 117 43 54.0	0.400 768	57.9 2183	37.3 Oregon Public Broadcasting	47.3	50.1
215D K215AB Kamiah		LIC _C_ ID	110.9 291.7	87.79 BLFT20041220ACF	46 10 17.0 116 02 15.0	0.133 206	0.8 964	12.4 Alacca Bible Conference	52.4	71.0
213A KBLU-FM Pilot Rock		CP DHX OR	228.4 47.1	183.90 BPED20130603AZJ	45 20 50.0 118 51 27.0	0.240 77	59.6 1168	17.2 The Kboo Foundation	90.0	63.6

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.  
All separation margins (if shown) include rounding  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside protected contour.  
« = Station meets FCC minimum distance spacing for its class.  
Reference station has protected zone issue:

