

**Exhibit 17**  
**KWWS Minor Modification**  
**Prohibited Contour Overlap**  
**Analysis and Request for Waiver**  
**Washington State University**

Table 18-2 of Exhibit 18 of this application shows that the predicted 60 dBμ (50,50) contour for the proposed KWWS facility will overlap the 100 dBμ (50,10) contours of two other facilities, creating prohibited overlap as defined in 47 CFR §73.509(a) of the Commission's rules.

The specific facilities are KFAE<sup>1</sup>, Richland, WA, channel 206 (3<sup>rd</sup> adjacent) and KOLU, Pasco, WA, channel 211 (2<sup>nd</sup> adjacent)<sup>2</sup>.

Figure 17-1 is a map showing the calculated 60 dBμ (50,50) service contours of the present and proposed KWWS facilities and overlapping facilities along with the 100 dBμ (50,10) overlapping contours of the proposed KWWS facility and the two overlapping facilities. Figure 17-2 shows the area of overlap in greater detail.

As shown Figure 17-1, there will be no prohibited overlap from the proposed KWWS facility's 100 dBμ contour to either of the other facilities ("overlap caused"). The overlap areas involve the interfering stations' 100dBμ contours with the proposed KWWS 60 dBμ contour ("overlap received").

The Commission addressed a similar situation in *Educational Information Corporation*, 6 FCC Rcd 2207 (1991) ("Raleigh") where it stated that it was "...inclined to grant waivers of second or third adjacent overlap in circumstances such as WCPE's, where the benefit of increased noncommercial educational service so heavily outweighs the potential for interference in very small areas."

As demonstrated by the data below, the applicant believes that a waiver of in 47 CFR §73.509 is justified and in the public interest with regard to received overlap from these two facilities.

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<sup>1</sup> KFAE is also owned and operated by Washington State University.

<sup>2</sup> KOLU has a facility upgrade authorized on Construction Permit BPED-20111129CLD. All calculations for contour overlap are based on these upgraded facilities, which are co-located with the present facility. This provides an analysis based on maximum overlap.

Table 17-1 summarizes the additional population and land areas that would benefit from the proposed KWWS facility. As shown in this table an additional 36,324 persons would be encompassed by the facility's 60 dBμ contour, representing a 50% increase in persons served. Additional coverage area would be 2,097 square kilometers, a 30% increase.

Also shown in Table 17-1, a total of 2,143 persons<sup>3</sup>, or 1.95% of the 109,694 persons within the proposed 60 dBμ contour, would be within the overlap area<sup>4</sup>, while 1.0 percent of the proposed coverage area would be affected. These numbers fit well within the delegated staff authority outlined in *Educational Information Corporation of* received overlap of up to 10%.

A search of alternate frequencies was also performed to determine whether another channel could be utilized without the requirement of a waiver. Table 17-2 demonstrates that there are no other channels available to use for such a purpose.

The applicant also notes that there are many current listeners to KWWS that are outside the service contour of the present facility that would be within the proposed facility's service contour who would benefit from the reduced level of interference to KWWS's signal.

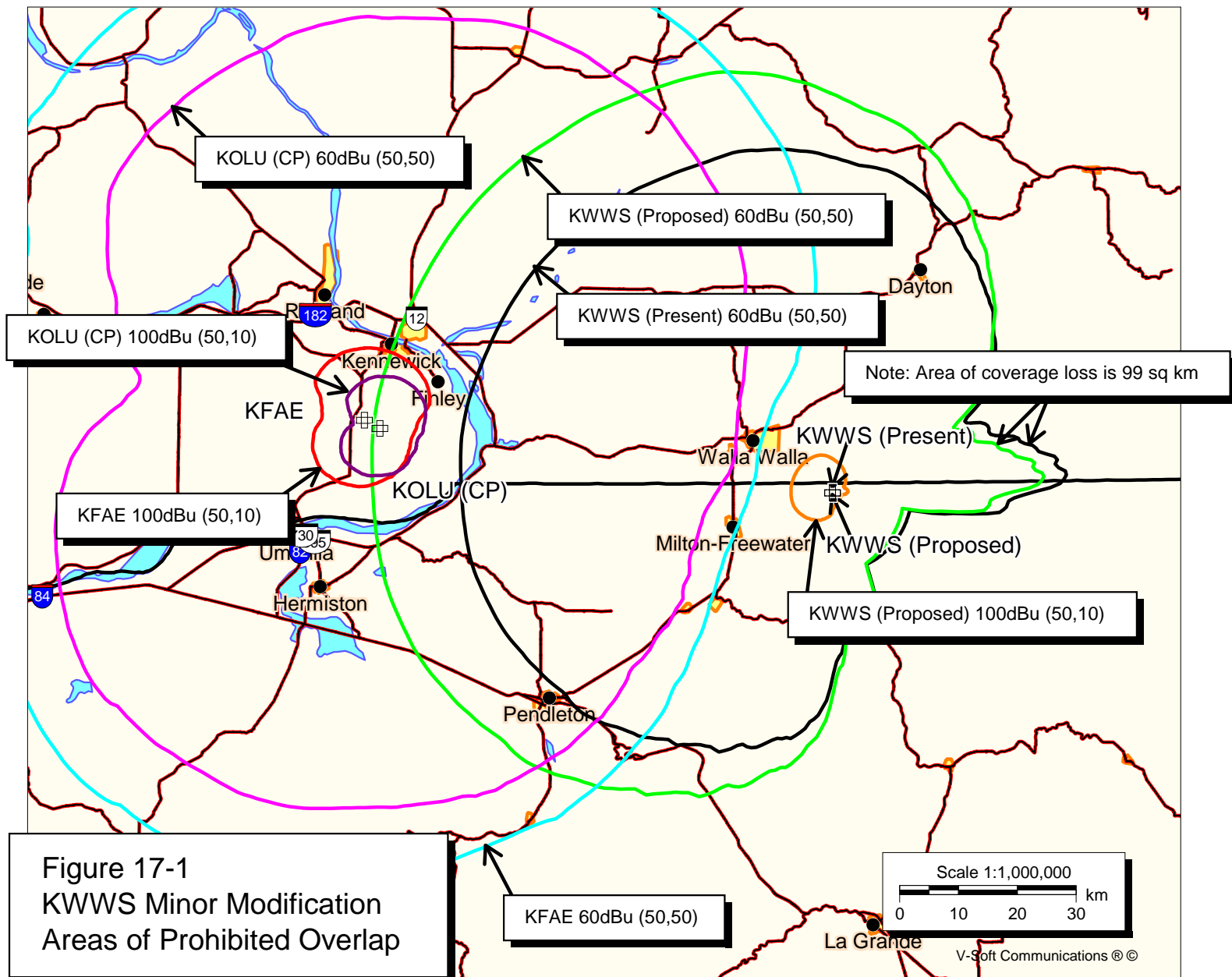
As this data shows, the proposed facility modifications would provide significant public interest benefits through the increased availability of the noncommercial services provided by KWWS. In addition, there are no alternatives that would provide these benefits without the need for a waiver. For these reasons, the applicant requests a waiver of 47 CFR §73.509 with respect to this prohibited overlap.

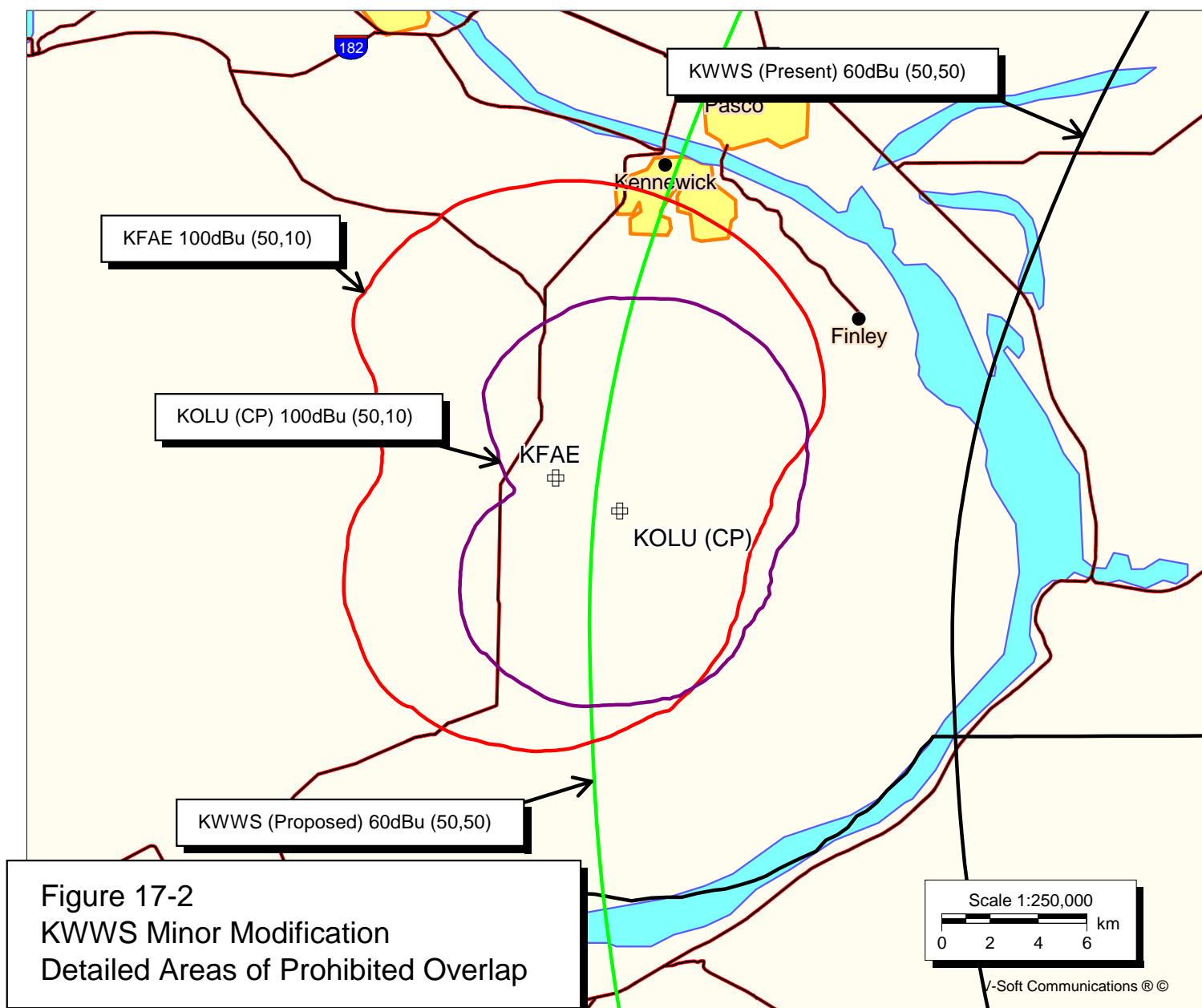
The applicant acknowledges that any future modifications to KOLU or KFAE which increase the prohibited overlap received by KWWS would not be construed as a modification of KWWS's authorization and that any construction permit granted to KWWS in response to this application will include a special operating condition specifying the same.

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<sup>3</sup> It should be noted that the vast majority of persons within the overlap area would be exclusively within the interfering contour of 3<sup>rd</sup> adjacent KFAE, not 2<sup>nd</sup> adjacent KOLU where only 44 persons are located. 97.9% of those in the overlap area would be exclusively within the 3<sup>rd</sup> adjacent overlap contour. Because of the greater separation in frequency of the 3<sup>rd</sup> adjacent interfering contour, the number of persons receiving actual interference would be reduced when compared to a 2<sup>nd</sup> adjacent channel.

<sup>4</sup> Note that the 100dBμ (50,10) contours for KFAE and KOLU (CP) overlap for the most part, so the total area of received prohibited overlap is less than the total area encompassed by these two contours. There is only 8.5 km<sup>2</sup> of KOLU's 100dBμ contour that lies outside KFAE's 100dBμ contour. Also, note that the larger area of prohibited overlap is received from KFAE, which is 3<sup>rd</sup> adjacent to KWWS, not 2<sup>nd</sup> adjacent KOLU.





**Figure 17-2**  
**KWWs Minor Modification**  
**Detailed Areas of Prohibited Overlap**

Table 17-1

**Prohibited Received Overlap Summary**

**Proposed KWWS Facilities  
Washington State University**

**Present and Proposed Population and Area**

	<b>Population (2000 Census)</b>		<b>Area</b>	
<b>Facility</b>	<b>Persons</b>	<b>Pct Change</b>	<b>Sq km</b>	<b>Pct Change</b>
KWWS (Present)	73,370		6,966.35	
KWWS (Proposed)	109,694	49.5	9,063.25	30.1
<b>Net Gain:</b>	<b>36,324</b>		<b>2,096.90</b>	

**Received Overlap Summary**

	<b>Population (2000 Census)</b>		<b>Area</b>	
<b>Facility</b>	<b>Persons</b>	<b>Pct</b>	<b>Sq km</b>	<b>Pct</b>
KFAE (3rd Adjacent)	2,141	1.95	82.34	0.91
KOLU (2nd Adjacent)	44	0.04	72.17	0.80
Population/Area outside KFAE's 100dBμ contour and inside KOLU's 100dBμ contour	2	0.00	8.49	0.09
<b>Totals:</b>	<b>2,143</b>	<b>1.95</b>	<b>90.83</b>	<b>1.00</b>

CHANNEL PRECLUSION STUDY  
 KWWS Minor Modification  
 Washington State University  
 Class= C1, Pwr=10.3 kw DA, HAAT= 423 M, COR= 1201.5 M  
 Average Protected F(50-50)= 57.83 km  
 Standard Directional

REFERENCE  
 45 59 04.6 N.  
 118 10 09.1 W.

DISPLAY DATES  
 DATA 10-15-12  
 SEARCH 10-15-12

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)
--- Channel 201 88.1 MHz. ---										
201A KTCV Kennewick	LIC _VX WA	288.5 107.8	83.86 BLED20100122ABI	46 13 07.0 119 12 01.0	3.500 -28	73.0 186	21.4	-65.1	-100.9	
201C1 KDJC Baker	CP _VX OR	162.3 342.6	100.37 BPED20090925AAX	45 07 26.0 117 46 48.0	4.700 552	145.3 1745	65.4	-81.4*	-70.7	
201C2 KDJC Baker	LIC _VX OR	162.3 342.6	100.37 BLED20090812AAJ	45 07 26.0 117 46 48.0	0.775 552	116.4 1745	47.7	-52.5*	-37.4	
203C2 KLRF Milton-freewater	LIC _C_ OR	193.8 13.8	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	4.7 1239	51.7	-30.7*	-34.9*	
201A KAYB Sunnyside	LIC _CN WA	285.8 104.5	147.63 BLED19971003KD	46 19 53.0 120 00 51.0	0.250 -58	23.8 256	7.1	47.6	-23.0	
201A KUCC Clarkston	CP _CX WA	60.8 241.7	110.96 BPED20101026ACO	46 27 47.0 116 54 25.0	0.670 138	94.2 753	35.3	-19.2	-5.4	
201A KUCC Clarkston	LIC _CX WA	60.8 241.7	110.96 BLED20100528AED	46 27 47.0 116 54 25.0	0.240 138	80.4 753	27.5	-5.4	4.6	
202C3 KMLW Moses Lake	LIC _CN WA	318.3 137.4	143.79 BLED19970512KC	46 56 31.0 119 25 41.0	4.000 207	59.0 527	39.0	10.0	-4.9	
254C2 KUBQ« La Grande	LIC _CN OR	160.3 340.5	64.20 BLH19930909KB	45 26 26.0 117 53 31.0	2.250 592	0.0 1646	0.0	26.5R	37.7M	
--- Channel 202 88.3 MHz. ---										
203C2 KLRF Milton-freewater	LIC _C_ OR	193.8 13.8	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	76.7 1239	51.7	-102.6*	-100.7*	
202C3 KMLW Moses Lake	LIC _CN WA	318.3 137.4	143.79 BLED19970512KC	46 56 31.0 119 25 41.0	4.000 207	101.3 527	39.0	-32.3	-57.4	
201A KTCV Kennewick	LIC _VX WA	288.5 107.8	83.86 BLED20100122ABI	46 13 07.0 119 12 01.0	3.500 -28	32.2 186	21.4	-24.3	-48.3	
201C1 KDJC Baker	CP _VX OR	162.3 342.6	100.37 BPED20090925AAX	45 07 26.0 117 46 48.0	4.700 552	94.6 1745	65.4	-30.7	-23.2	
201C2 KDJC Baker	LIC _VX OR	162.3 342.6	100.37 BLED20090812AAJ	45 07 26.0 117 46 48.0	0.775 552	69.4 1745	47.7	-5.5	4.8	
256C1 KUJ-FM« Burbank	LIC ZCX WA	280.1 99.4	75.29 BLH20060905AAY	46 05 58.0 119 07 40.0	52.000 385	0.0 703	0.0	33.5R	41.8M	
--- Channel 203 88.5 MHz. ---										
203C2 KLRF Milton-freewater	LIC _C_ OR	193.8 13.8	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	125.2 1239	51.7	-151.2*	-145.8*	
203A KRLF Pullman	LIC _VX WA	48.5 229.3	110.16 BLED20120620AAJ	46 38 04.0 117 05 22.0	0.400 246	75.0 1063	25.6	-9.2	-12.4	
206C KFAE-FM Richland	LIC _E_ WA	279.2 98.5	80.33 BLED20010726AAH	46 05 43.0 119 11 41.0	100.000 350	12.0 697	66.9	-6.9	7.0	
202C3 KMLW Moses Lake	LIC _CN WA	318.3 137.4	143.79 BLED19970512KC	46 56 31.0 119 25 41.0	4.000 207	59.0 527	39.0	10.0	-4.9	
256C1 KUJ-FM« Burbank	LIC ZCX WA	280.1 99.4	75.29 BLH20060905AAY	46 05 58.0 119 07 40.0	52.000 385	0.0 703	0.0	33.5R	41.8M	
--- Channel 204 88.7 MHz. ---										
203C2 KLRF Milton-freewater	LIC _C_ OR	193.8 13.8	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	76.7 1239	51.7	-102.6*	-100.7*	
204A KETP Enterprise	LIC _CX OR	136.7 317.3	89.07 BLED20101123AJY	45 23 58.0 117 23 16.0	0.100 535	97.3 2150	27.9	-25.5*	11.8	
204C3 KDMB Moses Lake	CP _VX WA	323.9 142.9	183.04 BNPED20071022AAE	47 18 17.5 119 35 52.9	2.500 204	100.0 712	39.1	9.0	-16.4	

Page # 2											
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
206C	KFAE-FM	LIC _E_		279.2	80.33	46 05 43.0	100.000	12.0	66.9	-6.9	7.0
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit		
204C1	KAGU	LIC _CX		20.2	189.58	47 34 52.0	5.000	132.1	53.4	-2.4	-1.0
Spokane		WA		200.8	BLED20041119ADR	117 17 47.0	466	1187	Gonzaga University Telecom		
--- Channel 205 88.9 MHz. ---											
206C	KFAE-FM	LIC _E_		279.2	80.33	46 05 43.0	100.000	127.0	66.9	-120.0*	-97.6
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit		
203C2	KLRF	LIC _C_		193.8	20.74	45 48 12.0	7.400	4.7	51.7	-30.7*	-34.9*
Milton-freewater		OR		13.8	BLED20001220ABZ	118 13 59.0	251	1239	Lifetalk Radio, Inc.		
--- Channel 206 89.1 MHz. ---											
206C	KFAE-FM	LIC _E_		279.2	80.33	46 05 43.0	100.000	188.3	66.9	-182.4*	-150.3
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit		
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	3.7	63.0	-15.5*	-64.6*
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit		
203C2	KLRF	LIC _C_		193.8	20.74	45 48 12.0	7.400	4.7	51.7	-30.7*	-34.9*
Milton-freewater		OR		13.8	BLED20001220ABZ	118 13 59.0	251	1239	Lifetalk Radio, Inc.		
260C1	KWRL«	LIC _CX		162.3	100.54	45 07 21.0	25.000	0.0	0.0	33.5R	67.0M
La Grande		OR		342.5	BLH20090925ABF	117 46 44.0	505	1699	Kwrl, Llc		
--- Channel 207 89.3 MHz. ---											
206C	KFAE-FM	LIC _E_		279.2	80.33	46 05 43.0	100.000	127.0	66.9	-120.0*	-97.6
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit		
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	3.7	63.0	-15.5*	-64.6*
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit		
260C1	KWRL«	LIC _CX		162.3	100.54	45 07 21.0	25.000	0.0	0.0	33.5R	67.0M
La Grande		OR		342.5	BLH20090925ABF	117 46 44.0	505	1699	Kwrl, Llc		
261A	AL6664«	RSV-A		261.9	89.51	45 51 57.0	6.000	0.0	0.0	21.5R	68.0M
Hermiston		OR		81.1	RM11242	119 18 38.0	100	271			
261A	KQFM«	LIC _CX		261.9	89.59	45 51 57.0	5.300	0.0	0.0	21.5R	68.1M
Hermiston		OR		81.1	BLH20100211ABO	119 18 42.0	94	265	Westend Radio, Llc		
--- Channel 208 89.5 MHz. ---											
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	93.2	63.0	-105.0*	-80.1*
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit		
208A	KEFS	LIC _CX		162.3	100.37	45 07 26.0	0.165	92.5	33.1	-28.6	-7.5
North Powder		OR		342.6	BLED20090812AAR	117 46 48.0	545	1738	Calvary Chapel of Twin Fal		
208C2	KSOH	LIC _CN		289.3	191.15	46 31 42.0	9.500	128.5	47.6	-10.4	-25.0
Wapato		WA		107.6	BLED19920318KA	120 31 16.0	297	655	Lifetalk Radio, Inc.		
208C1	KEWU-FM	LIC _CN		20.2	189.29	47 34 43.0	10.000	139.7	57.9	-10.2	-6.1
Cheney		WA		200.9	BLED19861117KA	117 17 50.0	429	1148	Eastern Washington Univers		
206C	KFAE-FM	LIC _E_		279.2	80.33	46 05 43.0	100.000	12.0	66.9	-6.9	7.0
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit		
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	8.7	59.3	-6.9	11.3
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist Christia		
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	3.8	39.4	-2.0	31.1
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist Christia		
261A	AL6664«	RSV-A		261.9	89.51	45 51 57.0	6.000	0.0	0.0	21.5R	68.0M
Hermiston		OR		81.1	RM11242	119 18 38.0	100	271			
261A	KQFM«	LIC _CX		261.9	89.59	45 51 57.0	5.300	0.0	0.0	21.5R	68.1M
Hermiston		OR		81.1	BLH20100211ABO	119 18 42.0	94	265	Westend Radio, Llc		
--- Channel 209 89.7 MHz. ---											
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	143.0	63.0	-154.8*	-107.5*
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit		
206C	KFAE-FM	LIC _E_		279.2	80.33	46 05 43.0	100.000	12.0	66.9	-6.9	7.0
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit		

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 3		
										*IN*	*OUT*	(Overlap in km)
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	8.7	59.3	-6.9	11.3	
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist	Christia		
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	3.8	39.4	-2.0	31.1	
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist	Christia		
--- Channel 210 89.9 MHz. ---												
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	93.2	63.0	-105.0*	-80.1*	
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit			
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	105.7	59.3	-102.9*	-93.2	
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist	Christia		
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	74.4	39.4	-71.5	-73.6	
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist	Christia		
213A	KWCW	LIC _C_		307.2	15.68	46 04 11.0	0.160	0.9	6.3	-60.7*	3.0	
Walla Walla		WA		127.1	BLED20011010AAE	118 19 51.0	-16	332	Aswc Radio Committee			
264C2	KHSS	LIC _CX		320.4	0.73	45 59 23.0	6.300	0.0	0.0	26.5R	-25.8M	
Athena		OR		140.4	BLH20091029AAL	118 10 31.0	403	1168	Two Hearts Communications,			
210A	NEW	CP DCX		48.6	110.14	46 37 59.0	0.350	67.9	18.1	-2.2	-10.1	
Pullman		WA		229.4	BNPED20071022AVN	117 05 17.0	240	1057	Washington State Universit			
210C2	KPLW	LIC _CX		314.1	217.01	47 19 25.0	5.000	145.1	62.8	-2.9	-8.9	
Wenatchee		WA		132.6	BLED20100607AIU	120 13 56.0	424	1187	Growing Christian Foundati			
--- Channel 211 90.1 MHz. ---												
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	164.8	59.3	-162.0*	-145.9	
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist	Christia		
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	122.0	39.4	-119.1*	-126.2	
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist	Christia		
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	3.7	63.0	-15.5*	-64.6*	
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit			
213A	KWCW	LIC _C_		307.2	15.68	46 04 11.0	0.160	0.9	6.3	-60.7*	3.0	
Walla Walla		WA		127.1	BLED20011010AAE	118 19 51.0	-16	332	Aswc Radio Committee			
264C2	KHSS	LIC _CX		320.4	0.73	45 59 23.0	6.300	0.0	0.0	26.5R	-25.8M	
Athena		OR		140.4	BLH20091029AAL	118 10 31.0	403	1168	Two Hearts Communications,			
212C2	KTVR-FM	LIC _CX		155.5	82.45	45 18 33.0	0.400	74.9	38.4	-23.2	-20.3	
La Grande		OR		335.8	BLED20040504ABP	117 43 54.0	768	2183	Oregon Public Broadcasting			
211C2	KNWO	CP _CX		85.3	132.28	46 04 09.0	0.550	107.4	40.6	-9.2	-0.2	
Cottonwood		ID		266.5	BPED20100804AAZ	116 27 54.0	616	1759	Washington State Universit			
--- Channel 212 90.3 MHz. ---												
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	105.7	59.3	-102.9*	-93.2	
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist	Christia		
213A	KWCW	LIC _C_		307.2	15.68	46 04 11.0	0.160	9.1	6.3	-68.9*	-100.9	
Walla Walla		WA		127.1	BLED20011010AAE	118 19 51.0	-16	332	Aswc Radio Committee			
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	74.4	39.4	-71.5	-73.6	
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist	Christia		
212C2	KTVR-FM	LIC _CX		155.5	82.45	45 18 33.0	0.400	122.1	38.4	-70.4*	-63.8	
La Grande		OR		335.8	BLED20040504ABP	117 43 54.0	768	2183	Oregon Public Broadcasting			
209C2	KWWS	LIC _CN		128.4	0.03	45 59 04.0	3.200	3.7	63.0	-15.5*	-64.6*	
Walla Walla		WA		308.4	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit			
213A	KBLU-FM	CP DCX		218.0	98.99	45 16 53.0	0.220	48.9	27.5	-12.9	-25.7	
Pilot Rock		OR		37.5	BNPED20071019ARV	118 56 54.0	316	1485	The Kboo Foundation			
213C2	1398014	APP DCX		285.8	111.59	46 14 53.1	3.000	37.3	24.1	-1.9	-23.4	
Benton City		WA		104.8	BNPED20071022BRO	119 33 44.0	410	756	Prosser Seventh-day Advent			
212C3	KNWY	LIC _CX		289.5	190.50	46 31 57.0	1.900	93.8	29.7	24.4	-9.1	
Yakima		WA		107.9	BLED20030909ACG	120 30 37.0	257	617	Washington State Universit			
212C3	KRFP	CP DCX		49.5	120.52	46 40 54.0	1.100	70.6	17.0	7.3	-8.7	
Moscow		ID		230.3	BMPED20110621ACO	116 58 13.0	302	1146	Radio Free Moscow, Inc.			
--- Channel 213 90.5 MHz. ---												



CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
213A	KWCW	LIC _C_		307.2	15.68	46 04 11.0	0.160	21.1	6.3	-81.0*	-153.6
Walla	Walla	WA		127.1	BLED20011010AAE	118 19 51.0	-16	332	Aswc Radio Committee		
213A	KBLU-FM	CP DCX		218.0	98.99	45 16 53.0	0.220	90.8	27.5	-54.9	-78.3
Pilot	Rock	OR		37.5	BNPED20071019ARV	118 56 54.0	316	1485	The Kboo Foundation		
213C2	1398014	APP DCX		285.8	111.59	46 14 53.1	3.000	75.4	24.1	-40.0	-76.0
Benton	City	WA		104.8	BNPED20071022BRO	119 33 44.0	410	756	Prosser Seventh-day Advent		
213A	KNWV	CP DCX		57.0	97.80	46 27 26.0	0.420	98.5	35.5	-34.2*	-23.8
Clarkston		WA		237.8	BPED20100910ADU	117 06 00.0	322	908	Washington State Universit		
213A	KNWV	LIC _CX		57.0	97.80	46 27 26.0	0.420	98.5	35.5	-34.2*	-23.8
Clarkston		WA		237.8	BLED20090312ABV	117 06 00.0	322	908	Washington State Universit		
212C2	KTVR-FM	LIC _CX		155.5	82.45	45 18 33.0	0.400	74.9	38.4	-23.2	-20.3
La Grande		OR		335.8	BLED20040504ABP	117 43 54.0	768	2183	Oregon Public Broadcasting		
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	8.7	59.3	-6.9	11.3
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist Christia		
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	3.8	39.4	-2.0	31.1
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist Christia		
267C3	KGDN«	LIC _C_		279.3	80.24	46 05 47.0	2.750	0.0	0.0	23.5R	56.7M
Pasco		WA		98.6	BLH19991018ABU	119 11 36.0	305	661	West Pasco Fine Arts Radio		
--- Channel 214 90.7 MHz. ---											
213A	KWCW	LIC _C_		307.2	15.68	46 04 11.0	0.160	9.1	6.3	-68.9*	-100.9
Walla	Walla	WA		127.1	BLED20011010AAE	118 19 51.0	-16	332	Aswc Radio Committee		
215C2	KRBM	LIC _EY		235.9	78.01	45 35 21.0	25.000	87.2	59.4	-77.4*	-88.3
Pendleton		OR		55.3	BLED19871019KC	118 59 53.0	180	723	Oregon Public Broadcasting		
217C2	KGTS	LIC _CX		318.1	0.64	45 59 20.0	7.000	1.6	16.4	-75.6*	-22.1*
College Place		WA		138.1	BLED20021217ABR	118 10 29.0	381	1139	Walla Walla University		
213A	KBLU-FM	CP DCX		218.0	98.99	45 16 53.0	0.220	48.9	27.5	-12.9	-25.7
Pilot	Rock	OR		37.5	BNPED20071019ARV	118 56 54.0	316	1485	The Kboo Foundation		
213C2	1398014	APP DCX		285.8	111.59	46 14 53.1	3.000	37.3	24.1	-1.9	-23.4
Benton	City	WA		104.8	BNPED20071022BRO	119 33 44.0	410	756	Prosser Seventh-day Advent		
211C1	KOLU	CP _CX		278.5	77.52	46 04 59.0	39.000	8.7	59.3	-6.9	11.3
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist Christia		
211C2	KOLU	LIC _C_		278.5	77.52	46 04 59.0	4.100	3.8	39.4	-2.0	31.1
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist Christia		
214A	KZUU	LIC _CX		42.6	113.55	46 43 51.0	0.420	36.1	9.3	32.3	-1.3
Pullman		WA		223.3	BLED20090210AAL	117 09 42.0	30	821	Washington State Universit		
267C3	KGDN«	LIC _C_		279.3	80.24	46 05 47.0	2.750	0.0	0.0	23.5R	56.7M
Pasco		WA		98.6	BLH19991018ABU	119 11 36.0	305	661	West Pasco Fine Arts Radio		
268C1	KATW«	LIC _CN		58.8	103.46	46 27 38.0	100.000	0.0	0.0	33.5R	70.0M
Lewiston		ID		239.6	BLH19851010KC	117 01 00.0	258	850	Pacific Empire Radio Corpo		
--- Channel 215 90.9 MHz. ---											
215C2	KRBM	LIC _EY		235.9	78.01	45 35 21.0	25.000	141.0	59.4	-131.2*	-140.7
Pendleton		OR		55.3	BLED19871019KC	118 59 53.0	180	723	Oregon Public Broadcasting		
217C2	KGTS	LIC _CX		318.1	0.64	45 59 20.0	7.000	1.6	16.4	-75.6*	-22.1*
College Place		WA		138.1	BLED20021217ABR	118 10 29.0	381	1139	Walla Walla University		
213A	KWCW	LIC _C_		307.2	15.68	46 04 11.0	0.160	0.9	6.3	-60.7*	3.0
Walla	Walla	WA		127.1	BLED20011010AAE	118 19 51.0	-16	332	Aswc Radio Committee		
215C1	KKRH	LIC _CX		94.2	159.26	45 51 42.0	1.900	132.7	57.0	-7.1	14.4
Grangeville		ID		275.7	BLED20110330ACC	116 07 25.0	709	1883	Calvary Chapel of Grangevi		
268C1	KATW«	LIC _CN		58.8	103.46	46 27 38.0	100.000	0.0	0.0	33.5R	70.0M
Lewiston		ID		239.6	BLH19851010KC	117 01 00.0	258	850	Pacific Empire Radio Corpo		
--- Channel 216 91.1 MHz. ---											
217C2	KGTS	LIC _CX		318.1	0.64	45 59 20.0	7.000	24.4	16.4	-98.4*	-124.8*
College Place		WA		138.1	BLED20021217ABR	118 10 29.0	381	1139	Walla Walla University		
215C2	KRBM	LIC _EY		235.9	78.01	45 35 21.0	25.000	87.2	59.4	-77.4*	-88.3
Pendleton		OR		55.3	BLED19871019KC	118 59 53.0	180	723	Oregon Public Broadcasting		

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 5 *IN* (Overlap in km)	*OUT*
213A	KWCW Walla Walla	LIC _C_ WA		307.2 127.1	15.68 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	0.9 332	6.3 Aswc Radio Committee	-60.7*	3.0
216C	KPBX-FM Spokane	LIC _CN WA		24.7 205.5	194.80 BMLD19831028AB	47 34 13.0 117 05 00.0	56.000 725	196.3 1571	92.6 Spokane Public Radio, Inc.	-59.8*	-32.3
216C1	KYPL Yakima	LIC _CX WA		289.7 108.1	181.85 BLED20100607AIV	46 30 48.0 120 24 03.0	26.000 242	134.6 627	52.2 Growing Christian Foundati	-27.8	-36.1
270C2	KZIU-FM Weston	LIC _C_ OR		179.8 359.8	21.10 BMLH20100112ADR	45 47 41.0 118 10 06.0	13.500 292	0.0 1421	0.0 Alexandra Communications,	26.5R	-5.4M
219C3	KBLD Kennewick	LIC _CN WA		278.5 97.8	77.54 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	2.5 640	32.4 Calvary Chapel of Tri-citi	-1.0	38.0
--- Channel 217 91.3 MHz. ---											
217C2	KGTS College Place	LIC _CX WA		318.1 138.1	0.64 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	72.0 1139	16.4 Walla Walla University	-146.0*	-177.3*
270C2	KZIU-FM Weston	LIC _C_ OR		179.8 359.8	21.10 BMLH20100112ADR	45 47 41.0 118 10 06.0	13.500 292	0.0 1421	0.0 Alexandra Communications,	26.5R	-5.4M
219C3	KBLD Kennewick	LIC _CN WA		278.5 97.8	77.54 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	2.5 640	32.4 Calvary Chapel of Tri-citi	-1.0	38.0
--- Channel 218 91.5 MHz. ---											
217C2	KGTS College Place	LIC _CX WA		318.1 138.1	0.64 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	24.4 1139	16.4 Walla Walla University	-98.4*	-124.8*
219C3	KBLD Kennewick	LIC _CN WA		278.5 97.8	77.54 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	63.0 640	32.4 Calvary Chapel of Tri-citi	-60.1	-66.7
218C2	KLWS Moses Lake	LIC _C_ WA		324.4 143.4	183.11 BLED19970609KD	47 18 50.0 119 34 55.0	7.200 209	119.5 727	49.4 Washington State Universit	-10.5	-26.5
219C1	KRFA-FM Moscow	LIC _VX ID		49.5 230.3	120.52 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	87.1 1128	56.9 Washington State Universit	-9.8	-4.0
--- Channel 219 91.7 MHz. ---											
219C3	KBLD Kennewick	LIC _CN WA		278.5 97.8	77.54 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	107.1 640	32.4 Calvary Chapel of Tri-citi	-104.2*	-119.3
217C2	KGTS College Place	LIC _CX WA		318.1 138.1	0.64 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	1.6 1139	16.4 Walla Walla University	-75.6*	-22.1*
219C1	KRFA-FM Moscow	LIC _VX ID		49.5 230.3	120.52 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	141.3 1128	56.9 Washington State Universit	-64.0*	-53.1
219A	KEOL La Grande	LIC _HN OR		175.2 355.3	73.99 BLED19850201LO	45 19 16.0 118 05 26.0	0.310 -228	25.1 878	7.5 Oregon St Bd of Higher Ed	7.4	-20.5
--- Channel 220 91.9 MHz. ---											
221C3	KUMA-FM% Pilot Rock	LIC _CX OR		235.9 55.3	78.03 BLH20060706ACT	45 35 21.0 118 59 54.0	25.000 100	79.2 642	53.6 Uma, Llc	132.5R	-54.5M
223C1	KZHR% Dayton	LIC _CN WA		317.6 137.6	0.60 BLH19920731KC	45 59 19.0 118 10 28.0	100.000 299	3.2 1057	31.0 Ccr-tri Cities Iv, Llc	75.5R	-74.9M
217C2	KGTS College Place	LIC _CX WA		318.1 138.1	0.64 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	1.6 1139	16.4 Walla Walla University	-75.6*	-22.1*
219C3	KBLD Kennewick	LIC _CN WA		278.5 97.8	77.54 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	63.0 640	32.4 Calvary Chapel of Tri-citi	-60.1	-66.7
220C1	KDNA Yakima	LIC _C_ WA		289.4 107.7	190.89 BMLD20060906ABQ	46 31 42.0 120 31 03.0	18.500 280	138.5 641	52.2 Northwest Communities Educ	-20.6	-30.4
219C1	KRFA-FM Moscow	LIC _VX ID		49.5 230.3	120.52 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	87.1 1128	56.9 Washington State Universit	-9.8	-4.0
221A	KWVR-FM% Enterprise	LIC _CX OR		134.7 315.4	104.30 BLH20030214ABJ	45 19 19.0 117 13 18.0	6.000 100	94.1 1844	60.0 Wallowa Valley Radio, Llc	110.5R	-6.2M
274C0	KORD-FM« Richland	LIC _CX WA		280.1 99.5	75.29 BLH20091009ADP	46 05 58.4 119 07 40.2	100.000 404	0.0 721	0.0 Townsquare Media Tri-citie	36.5R	38.8M

Terrain database is USGS 03 SEC, R= 73.215 qualifing spacings or FCC minimum spacings in KM, M= Margin KM

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
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In & Out distances between contours are shown at closest points. Reference Zone= - Zone 2  
 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.

^ = power and antenna height 'Max classed' as per Sec 73.215 protection requirements  
 % = Station fails 73.215.  
 All separation margins include rounding