

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 ¹overlap 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 KFAE², Richland, WA, channel 206 (3rd adjacent) and KOLU, Pasco, WA, channel 211 (2nd adjacent).

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.

¹ The Commission had previously granted a waiver of KWWS with respect to KFAE and KOLU in a letter signed by Commission staff on December 27, 2012, reference BPED-20121102ADR. Since the applicant is requesting a technical change to the proposed facilities, this request has been updated to reflect those changes along with current census data.

² KFAE is also owned and operated by Washington State University.

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 105,257 persons would be encompassed by the facility's 60 dBμ contour, representing a 136% increase in persons served. Additional coverage area would be 2,579 square kilometers, a 37% increase.

Also shown in Table 17-1, a total of 23,023 persons³, or 12.6% of the 182,752 persons within the proposed 60 dBμ contour, would be within the overlap area⁴, while 2 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 area 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.

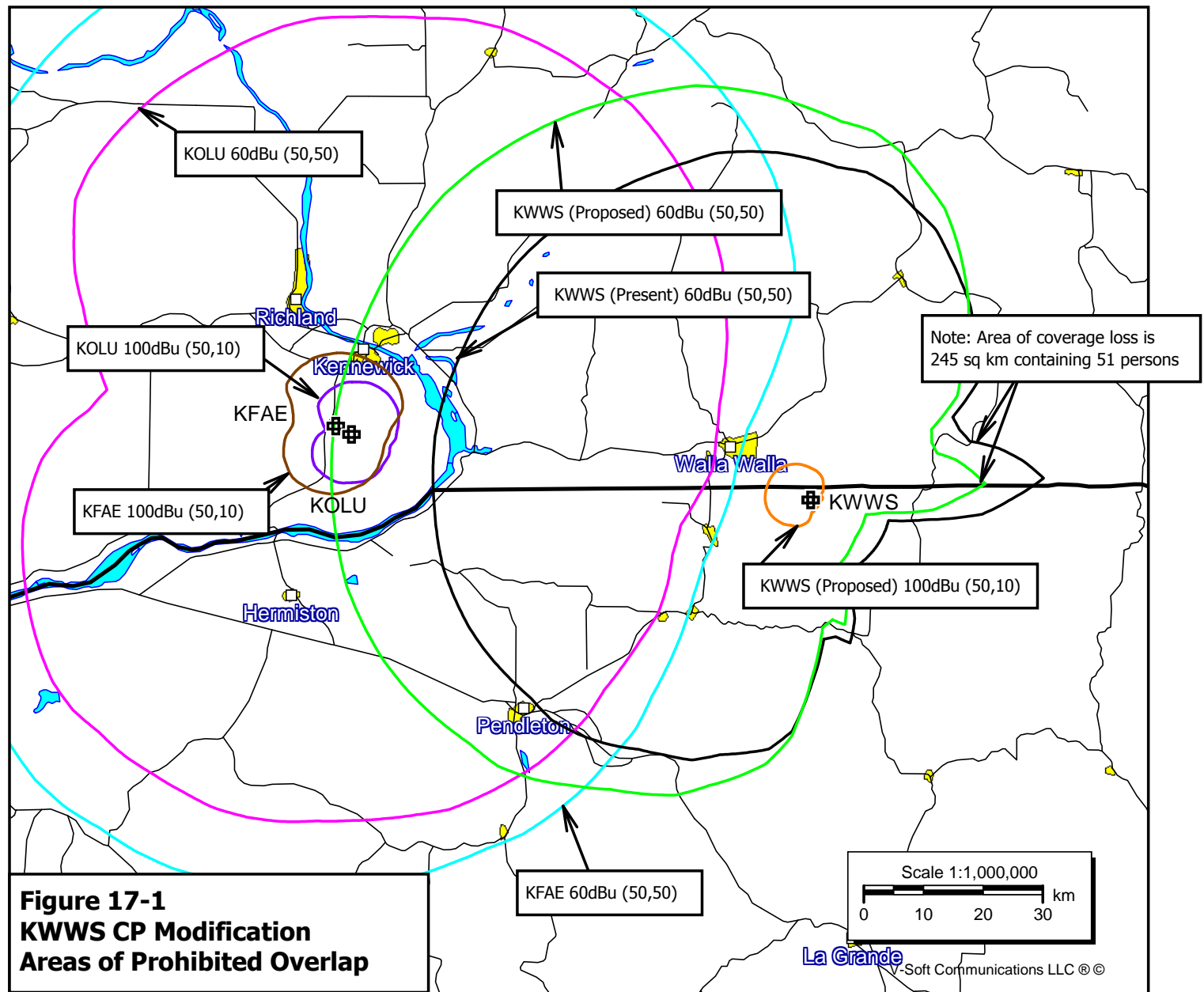
The applicant also notes that there are many current listeners to KWWS that are outside the service contour of the present facility that would be within the proposed facility's service contour who would benefit from the reduced level of interference to KWWS's signal.

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 respectfully 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.

³ It should be noted that the vast majority of persons within the overlap area would be exclusively within the interfering contour of 3rd adjacent KFAE, not 2nd adjacent KOLU where 89 persons are located. 99.6% of those in the overlap area would be exclusively within the 3rd adjacent overlap contour. Because of the greater separation in frequency of the 3rd adjacent interfering contour, the number of persons receiving actual interference would be reduced when compared to a 2nd adjacent channel.

⁴ 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 sum of the area encompassed these respective contours. There is only 8.9 km² 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 3rd adjacent to KWWS, not 2nd adjacent KOLU.



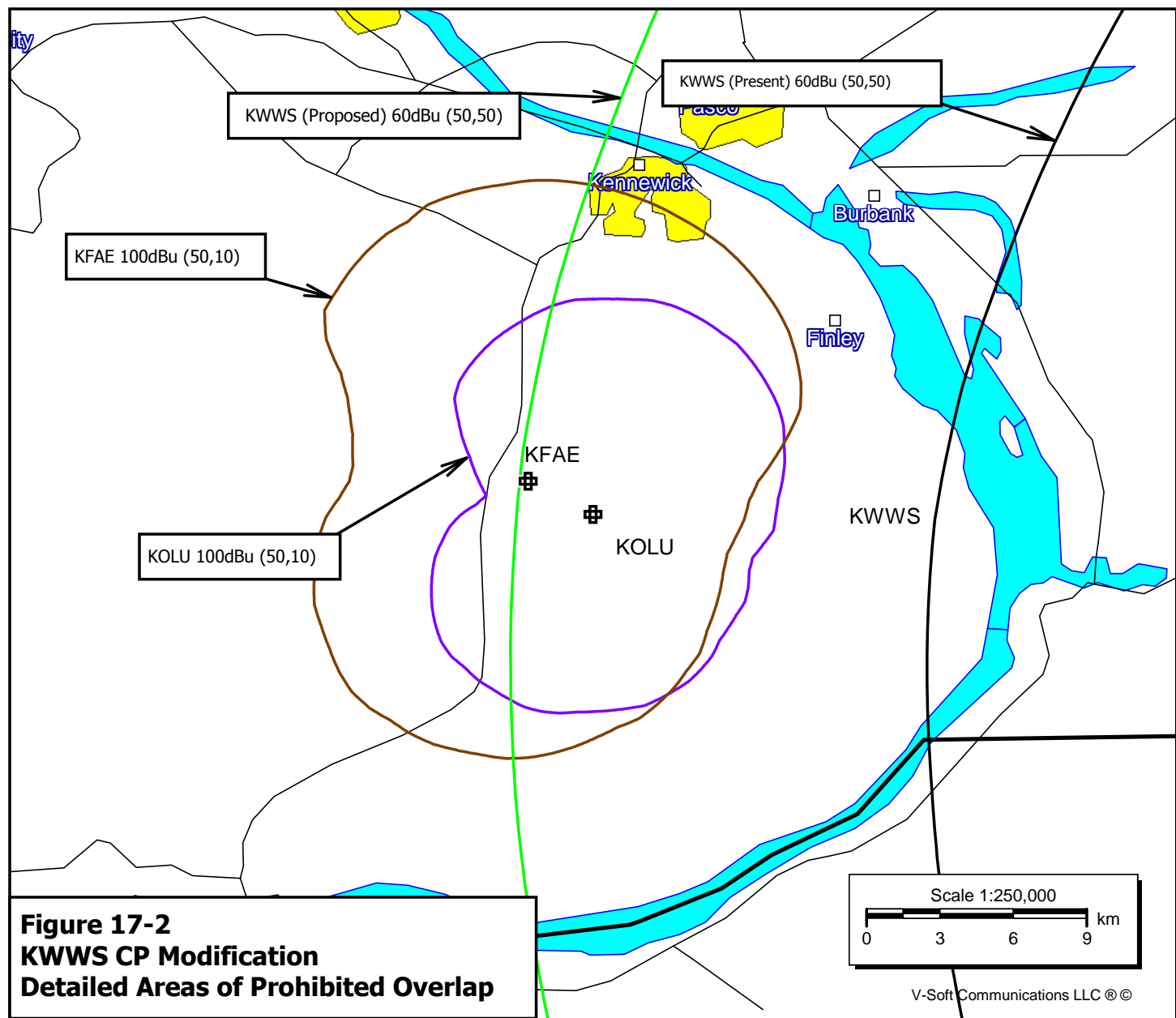


Table 17-1

Prohibited Received Overlap Summary**Proposed KWWS 16kW Facility****Washington State University****Present and Proposed Population and Area**

	Population (2010 Census)		Area	
Facility	Persons	Pct Change	Sq km	Pct Change
KWWS (Present)	77,495		6,961.00	
KWWS (Present CP)	117,672	51.8	9,038.00	29.8
KWWS (Proposed)	182,752	135.8	9,540.00	37.0
Net Gain:	105,257		2,579.00	

Received Overlap Summary

	Population (2010 Census)		Area	
Facility	Persons	Pct	Sq km	Pct
KFAE (3rd Adjacent)	23,023	12.60	186.80	1.96
KOLU (2nd Adjacent)	89	0.05	151.57	1.59
Population/Area outside KFAE's 100dB μ contour and inside KOLU's 100dB μ contour	0	0.00	8.94	0.09
Totals:	23,023	12.60	195.74	2.05

TABLE 17-2

CHANNEL PRECLUSION STUDY

KWWS 16kW CP Mod

Washington State University

Class= C1, Pwr=16 kW DA, HAAT= 408.5 M, COR= 1193 M

Average Protected F(50-50)= 61.3 km

Standard Directional

DISPLAY DATES

DATA 06-03-15

SEARCH 06-03-15

REFERENCE
45 59 04.4 N.
118 10 09.5 W.

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	83.62 BLED20100122ABI	46 13 07.0 119 12 01.0	3.500 -28	73.4 186	21.4	-70.2	-109.0*	
201C2 KDJC Baker	LIC _VX OR	162.3 342.6	100.37 BLED20090812AAJ	45 07 26.0 117 46 48.0	0.775 552	116.7 1745	47.8	-52.5*	-36.0	
203C2 KLRF Milton-freewater	LIC _C_ OR	193.8 13.7	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	4.7 1239	51.8	-30.6*	-35.1*	
201A KAYB Sunnyside	LIC _CN WA	285.8 104.5	147.21 BLED19971003KD	46 19 53.0 120 00 51.0	0.250 -58	23.8 256	7.1	42.7	-31.2*	
201A KUCC Clarkston	LIC _CX WA	60.8 241.7	110.71 BLED20131119BDR	46 27 47.0 116 54 25.0	0.460 138	89.0 753	32.3	-14.7	-0.8	
202C3 KMLW Moses Lake	LIC _CN WA	318.3 137.4	143.60 BLED19970512KC	46 56 31.0 119 25 41.0	4.000 207	59.3 527	39.1	5.8	-11.1	
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 13.7	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	76.9 1239	51.8	-102.8*	-100.6*	
202C3 KMLW Moses Lake	LIC _CN WA	318.3 137.4	143.60 BLED19970512KC	46 56 31.0 119 25 41.0	4.000 207	101.5 527	39.1	-36.5	-64.3*	
201A KTCV Kennewick	LIC _VX WA	288.5 107.8	83.62 BLED20100122ABI	46 13 07.0 119 12 01.0	3.500 -28	32.6 186	21.4	-29.4	-55.5*	
201C2 KDJC Baker	LIC _VX OR	162.3 342.6	100.37 BLED20090812AAJ	45 07 26.0 117 46 48.0	0.775 552	69.7 1745	47.8	-5.5	6.0	
256C1 KUJ-FM« Burbank	LIC ZCX WA	280.1 99.5	75.28 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 13.7	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	125.5 1239	51.8	-151.4*	-145.3*	
203A KRLF Pullman	LIC _VX WA	48.5 229.3	109.99 BLED20120620AAJ	46 38 04.0 117 05 22.0	0.400 246	75.5 1063	25.9	-11.1	-14.0	
202C3 KMLW Moses Lake	LIC _CN WA	318.3 137.4	143.60 BLED19970512KC	46 56 31.0 119 25 41.0	4.000 207	59.3 527	39.1	5.8	-11.1	
206C KFAE-FM Richland	LIC _E_ WA	279.2 98.5	80.08 BLED20010726AAH	46 05 43.0 119 11 41.0	100.000 350	9.0 697	67.3	-9.6*	5.1	
203A KYVT Yakima	LIC _CX WA	289.5 107.8	190.10 BLED20131107ABE	46 31 57.0 120 30 43.4	0.135 258	60.2 619	15.8	52.6	-0.7	
256C1 KUJ-FM« Burbank	LIC ZCX WA	280.1 99.5	75.28 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 13.7	20.74 BLED20001220ABZ	45 48 12.0 118 13 59.0	7.400 251	76.9 1239	51.8	-102.8*	-100.6*	
204C2 KDMB Moses Lake	LIC _CX WA	322.2 141.1	189.05 BLED20130711AAQ	47 19 07.8 119 42 18.3	4.600 246	117.4 807	47.1	-6.3	-25.0	
204A KETP Enterprise	LIC _CX OR	136.7 317.3	88.96 BLED20101123AJY	45 23 58.0 117 23 16.0	0.100 535	97.3 2150	27.9	-23.9*	22.5	
206C KFAE-FM Richland	LIC _E_ WA	279.2 98.5	80.08 BLED20010726AAH	46 05 43.0 119 11 41.0	100.000 350	9.0 697	67.3	-9.6*	5.1	
204C1 KAGU Spokane	LIC _CX WA	20.2 200.8	189.53 BLED20041119ADR	47 34 52.0 117 17 47.0	5.000 466	132.1 1187	53.4	-3.7	-3.8	

											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	*OUT* in km)	

--- Channel 205 88.9 MHz. ---												
206C	KFAE-FM	LIC _E_		279.2	80.08	46 05 43.0	100.000	98.9	67.3	-99.5*	-105.1*	
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	51.8	-30.6*	-35.1*	
Milton-freewater		OR		13.7	BLED20001220ABZ	118 13 59.0	251	1239	Stateline Seventh-day Adve			
--- Channel 206 89.1 MHz. ---												
206C	KFAE-FM	LIC _E_		279.2	80.08	46 05 43.0	100.000	166.1	67.3	-166.7*	-158.7*	
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit			
209C1	KWWS	CP DCX		0.0	0.00	45 59 04.6	10.300	5.7	67.4	-71.3*	-72.7*	
Walla Walla		WA		232.4	BPED20121102ADR	118 10 09.1	418	1201	Washington State Universit			
209C2	KWWS	LIC _CN		111.1	0.03	45 59 04.0	3.200	3.7	63.5	-13.2*	-65.1*	
Walla Walla		WA		291.1	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	51.8	-30.6*	-35.1*	
Milton-freewater		OR		13.7	BLED20001220ABZ	118 13 59.0	251	1239	Stateline Seventh-day Adve			
--- Channel 207 89.3 MHz. ---												
206C	KFAE-FM	LIC _E_		279.2	80.08	46 05 43.0	100.000	98.9	67.3	-99.5*	-105.1*	
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit			
209C1	KWWS	CP DCX		0.0	0.00	45 59 04.6	10.300	5.7	67.4	-71.3*	-72.7*	
Walla Walla		WA		232.4	BPED20121102ADR	118 10 09.1	418	1201	Washington State Universit			
209C2	KWWS	LIC _CN		111.1	0.03	45 59 04.0	3.200	3.7	63.5	-13.2*	-65.1*	
Walla Walla		WA		291.1	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit			
--- Channel 208 89.5 MHz. ---												
209C1	KWWS	CP DCX		0.0	0.00	45 59 04.6	10.300	99.1	67.4	-164.7*	-163.9*	
Walla Walla		WA		232.4	BPED20121102ADR	118 10 09.1	418	1201	Washington State Universit			
209C2	KWWS	LIC _CN		111.1	0.03	45 59 04.0	3.200	93.8	63.5	-103.3*	-76.8*	
Walla Walla		WA		291.1	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit			
208C2	KSOH	LIC _CN		289.3	190.62	46 31 42.0	9.500	128.3	47.6	-15.6	-33.5	
Wapato		WA		107.6	BLED19920318KA	120 31 16.0	297	655	Lifetalk Radio, Inc.			
208A	KEFS	LIC _CX		162.3	100.37	45 07 26.0	0.165	92.8	33.2	-28.6	-3.2	
North Powder		OR		342.6	BLED20090812AAR	117 46 48.0	545	1738	Calvary Chapel Of Twin Fal			
208C1	KEWU-FM	LIC _CN		20.2	189.25	47 34 43.0	10.000	139.7	57.9	-11.5	-8.8	
Cheney		WA		200.9	BLED19861117KA	117 17 50.0	429	1148	Eastern Washington Univers			
211C1	KOLU	CP _CX		278.5	77.28	46 04 59.0	39.000	7.2	59.7	-10.6*	9.3	
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist Christia			
206C	KFAE-FM	LIC _E_		279.2	80.08	46 05 43.0	100.000	9.0	67.3	-9.6*	5.1	
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit			
211C2	KOLU	LIC _C_		278.5	77.28	46 04 59.0	4.100	3.4	39.7	-6.8*	29.2	
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist Christia			
--- Channel 209 89.7 MHz. ---												
209C1	KWWS	CP DCX		0.0	0.00	45 59 04.6	10.300	151.6	67.4	-217.1*	-216.0*	
Walla Walla		WA		232.4	BPED20121102ADR	118 10 09.1	418	1201	Washington State Universit			
209C2	KWWS	LIC _CN		111.1	0.03	45 59 04.0	3.200	143.6	63.5	-153.1*	-96.1*	
Walla Walla		WA		291.1	BLED19970609KE	118 10 08.0	410	1206	Washington State Universit			
211C1	KOLU	CP _CX		278.5	77.28	46 04 59.0	39.000	7.2	59.7	-10.6*	9.3	
Pasco		WA		97.8	BPED20111129CLD	119 09 38.0	305	648	Riverview Baptist Christia			
206C	KFAE-FM	LIC _E_		279.2	80.08	46 05 43.0	100.000	9.0	67.3	-9.6*	5.1	
Richland		WA		98.5	BLED20010726AAH	119 11 41.0	350	697	Washington State Universit			
211C2	KOLU	LIC _C_		278.5	77.28	46 04 59.0	4.100	3.4	39.7	-6.8*	29.2	
Pasco		WA		97.8	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist Christia			
--- Channel 210 89.9 MHz. ---												

Page # 3											
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*
209C1 Walla Walla	KWWS	CP DCX WA		0.0 232.4	0.00 BPED20121102ADR	45 59 04.6 118 10 09.1	10.300 418	99.1 1201	67.4 Washington State Universit	-164.7*	-163.9*
209C2 Walla Walla	KWWS	LIC _CN WA		111.1 291.1	0.03 BLED19970609KE	45 59 04.0 118 10 08.0	3.200 410	93.8 1206	63.5 Washington State Universit	-103.3*	-76.8*
211C1 Pasco	KOLU	CP _CX WA		278.5 97.8	77.28 BPED20111129CLD	46 04 59.0 119 09 38.0	39.000 305	87.7 648	59.7 Riverview Baptist Christia	-91.1*	-100.8*
211C2 Pasco	KOLU	LIC _C_ WA		278.5 97.8	77.28 BLED19951204KE	46 04 59.0 119 09 38.0	4.100 305	58.9 648	39.7 Riverview Baptist Christia	-62.3*	-81.0*
213A Walla Walla	KWCW	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	0.9 332	6.3 Aswc Radio Committee	-65.3*	1.7
264C2 Athena	KHSS	LIC _CX OR		321.2 141.2	0.73 BLH20091029AAL	45 59 23.0 118 10 31.0	6.300 403	0.0 1168	0.0 Two Hearts Communications,	26.5R	-25.8M
210A Pullman	KJEM	LIC DCX WA		41.5 222.2	106.25 BLED20131022ACS	46 41 47.0 117 14 44.0	2.300 164	55.1 901	15.9 Washington State Universit	2.5	-20.1*
210C2 Wenatchee	KPLW	LIC _CX WA		314.1 132.6	216.66 BLED20100607AIU	47 19 25.0 120 13 56.0	5.000 424	145.6 1187	63.0 Growing Christian Foundati	-7.0	-16.2
--- Channel 211 90.1 MHz. ---											
211C1 Pasco	KOLU	CP _CX WA		278.5 97.8	77.28 BPED20111129CLD	46 04 59.0 119 09 38.0	39.000 305	145.1 648	59.7 Riverview Baptist Christia	-148.5*	-154.4*
211C2 Pasco	KOLU	LIC _C_ WA		278.5 97.8	77.28 BLED19951204KE	46 04 59.0 119 09 38.0	4.100 305	101.2 648	39.7 Riverview Baptist Christia	-104.6*	-134.6*
209C1 Walla Walla	KWWS	CP DCX WA		0.0 232.4	0.00 BPED20121102ADR	45 59 04.6 118 10 09.1	10.300 418	5.7 1201	67.4 Washington State Universit	-71.3*	-72.7*
213A Walla Walla	KWCW	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	0.9 332	6.3 Aswc Radio Committee	-65.3*	1.7
209C2 Walla Walla	KWWS	LIC _CN WA		111.1 291.1	0.03 BLED19970609KE	45 59 04.0 118 10 08.0	3.200 410	3.7 1206	63.5 Washington State Universit	-13.2*	-65.1*
264C2 Athena	KHSS	LIC _CX OR		321.2 141.2	0.73 BLH20091029AAL	45 59 23.0 118 10 31.0	6.300 403	0.0 1168	0.0 Two Hearts Communications,	26.5R	-25.8M
212C2 La Grande	KTVR-FM	LIC _CX OR		155.5 335.8	82.43 BLED20040504ABP	45 18 33.0 117 43 54.0	0.400 768	74.9 2183	38.6 Oregon Public Broadcasting	-23.1	-19.6
--- Channel 212 90.3 MHz. ---											
213A Walla Walla	KWCW	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	9.1 332	6.3 Aswc Radio Committee	-73.5*	-107.8*
211C1 Pasco	KOLU	CP _CX WA		278.5 97.8	77.28 BPED20111129CLD	46 04 59.0 119 09 38.0	39.000 305	87.7 648	59.7 Riverview Baptist Christia	-91.1*	-100.8*
211C2 Pasco	KOLU	LIC _C_ WA		278.5 97.8	77.28 BLED19951204KE	46 04 59.0 119 09 38.0	4.100 305	58.9 648	39.7 Riverview Baptist Christia	-62.3*	-81.0*
209C1 Walla Walla	KWWS	CP DCX WA		0.0 232.4	0.00 BPED20121102ADR	45 59 04.6 118 10 09.1	10.300 418	5.7 1201	67.4 Washington State Universit	-71.3*	-72.7*
212C2 La Grande	KTVR-FM	LIC _CX OR		155.5 335.8	82.43 BLED20040504ABP	45 18 33.0 117 43 54.0	0.400 768	122.1 2183	38.6 Oregon Public Broadcasting	-70.3*	-62.8*
209C2 Walla Walla	KWWS	LIC _CN WA		111.1 291.1	0.03 BLED19970609KE	45 59 04.0 118 10 08.0	3.200 410	3.7 1206	63.5 Washington State Universit	-13.2*	-65.1*
213A Pilot Rock	KBLU-FM	LIC DHX OR		217.3 36.8	88.76 BLED20140117ANC	45 20 50.0 118 51 27.0	0.240 77	41.9 1168	23.6 The Kboo Foundation	-16.6	-33.4*
213C2 Benton City	NEW	CP DCX WA		285.8 104.8	111.27 BNPED20071022BRO	46 14 53.1 119 33 44.0	2.900 311	33.0 660	21.7 Prosser Seventh-day Advent	-2.3	-28.3*
212C3 Yakima	KNWY	LIC _CX WA		289.5 107.8	190.07 BLED20130912ACD	46 31 57.0 120 30 42.0	1.900 257	96.0 617	29.7 Washington State Universit	18.8	-17.5
212C3 Moscow	KRFP	CP DCN ID		49.5 230.3	120.32 BPED20140709AAA	46 40 54.0 116 58 13.0	1.100 300	71.6 1144	17.2 Radio Free Moscow, Inc.	5.2	-10.9
--- Channel 213 90.5 MHz. ---											
213A Walla Walla	KWCW	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	21.1 332	6.3 Aswc Radio Committee	-85.5*	-161.2*

CH CITY	CALL	TYPE STATE	ANT STATE	AZI ---	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 4 *IN* *OUT* (Overlap in km)	
213A	KBLU-FM Pilot Rock	LIC DHX OR		217.3 36.8	88.76 BLED20140117ANC	45 20 50.0 118 51 27.0	0.240 77	81.7 1168	23.6 The Kboo Foundation	-56.4	-86.3*
213C2	NEW Benton City	CP DCX WA		285.8 104.8	111.27 BNPED20071022BRO	46 14 53.1 119 33 44.0	2.900 311	68.4 660	21.7 Prosser Seventh-day Advent	-37.7	-81.8*
213A	KNWV Clarkston	LIC DCX WA		57.0 237.8	97.60 BLED20131017ABK	46 27 26.0 117 05 60.0	0.350 340	97.2 930	34.6 Washington State Universit	-33.1	-22.7
212C2	KTVR-FM La Grande	LIC _CX OR		155.5 335.8	82.43 BLED20040504ABP	45 18 33.0 117 43 54.0	0.400 768	74.9 2183	38.6 Oregon Public Broadcasting	-23.1	-19.6
211C1	KOLU Pasco	CP _CX WA		278.5 97.8	77.28 BPED20111129CLD	46 04 59.0 119 09 38.0	39.000 305	7.2 648	59.7 Riverview Baptist Christia	-10.6*	9.3
211C2	KOLU Pasco	LIC _C_ WA		278.5 97.8	77.28 BLED19951204KE	46 04 59.0 119 09 38.0	4.100 305	3.4 648	39.7 Riverview Baptist Christia	-6.8*	29.2
--- Channel 214 90.7 MHz. ---											
213A	KWCW Walla Walla	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	9.1 332	6.3 Aswc Radio Committee	-73.5*	-107.8*
215C2	KRBM Pendleton	LIC _EY OR		235.9 55.3	77.85 BLED19871019KC	45 35 21.0 118 59 53.0	25.000 180	87.5 723	59.7 Oregon Public Broadcasting	-80.3*	-93.7*
217C2	KGTS College Place	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	1.6 1139	16.4 Walla Walla University	-79.1*	-23.1*
213A	KBLU-FM Pilot Rock	LIC DHX OR		217.3 36.8	88.76 BLED20140117ANC	45 20 50.0 118 51 27.0	0.240 77	41.9 1168	23.6 The Kboo Foundation	-16.6	-33.4*
213C2	NEW Benton City	CP DCX WA		285.8 104.8	111.27 BNPED20071022BRO	46 14 53.1 119 33 44.0	2.900 311	33.0 660	21.7 Prosser Seventh-day Advent	-2.3	-28.3*
211C1	KOLU Pasco	CP _CX WA		278.5 97.8	77.28 BPED20111129CLD	46 04 59.0 119 09 38.0	39.000 305	7.2 648	59.7 Riverview Baptist Christia	-10.6*	9.3
211C2	KOLU Pasco	LIC _C_ WA		278.5 97.8	77.28 BLED19951204KE	46 04 59.0 119 09 38.0	4.100 305	3.4 648	39.7 Riverview Baptist Christia	-6.8*	29.2
214C1	KNWR Ellensburg	LIC _CY WA		310.8 129.1	221.38 BLED19920610KA	47 15 48.0 120 23 31.0	5.000 777	124.6 2059	50.8 Washington State Universit	17.2	-3.0
214A	KZUU Pullman	LIC _CX WA		42.6 223.3	113.40 BLED20090210AAL	46 43 51.0 117 09 42.0	0.420 30	36.5 821	9.4 Washington State Universit	30.6	-3.0
--- Channel 215 90.9 MHz. ---											
215C2	KRBM Pendleton	LIC _EY OR		235.9 55.3	77.85 BLED19871019KC	45 35 21.0 118 59 53.0	25.000 180	141.4 723	59.7 Oregon Public Broadcasting	-134.2*	-146.9*
217C2	KGTS College Place	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	1.6 1139	16.4 Walla Walla University	-79.1*	-23.1*
213A	KWCW Walla Walla	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	0.9 332	6.3 Aswc Radio Committee	-65.3*	1.7
215C1	KKRH Grangeville	LIC _C_ ID		94.1 275.6	158.84 BLED20140131AGP	45 51 48.0 116 07 22.0	1.900 709	133.4 1883	57.3 Calvary Chapel of Grangevi	-3.5	22.2
216C	KPBX-FM Spokane	LIC _CN WA		24.7 205.5	194.72 BMLD19831028AB	47 34 13.0 117 05 00.0	56.000 725	136.1 1571	92.6 Spokane Public Radio, Inc.	-1.0	16.8
--- Channel 216 91.1 MHz. ---											
217C2	KGTS College Place	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	24.4 1139	16.4 Walla Walla University	-101.9*	-130.0*
215C2	KRBM Pendleton	LIC _EY OR		235.9 55.3	77.85 BLED19871019KC	45 35 21.0 118 59 53.0	25.000 180	87.5 723	59.7 Oregon Public Broadcasting	-80.3*	-93.7*
213A	KWCW Walla Walla	LIC _C_ WA		307.3 127.2	15.65 BLED20011010AAE	46 04 11.0 118 19 51.0	0.160 -16	0.9 332	6.3 Aswc Radio Committee	-65.3*	1.7
216C	KPBX-FM Spokane	LIC _CN WA		24.7 205.5	194.72 BMLD19831028AB	47 34 13.0 117 05 00.0	56.000 725	196.3 1571	92.6 Spokane Public Radio, Inc.	-61.2*	-35.3
216C1	KYPL Yakima	LIC _CX WA		289.7 108.1	181.35 BLED20100607AIV	46 30 48.0 120 24 03.0	26.000 242	134.6 627	52.1 Growing Christian Foundati	-32.7	-44.6
219C3	KBLD Kennewick	LIC _CN WA		278.5 97.8	77.30 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	2.5 640	32.7 Calvary Chapel of Tri-citi	-5.9*	36.1

CH CITY	CALL	TYPE STATE	ANT STATE	AZI ---	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 5 *IN* *OUT* (Overlap in km)	
270C2 Weston	KZIU-FM	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
--- Channel 217 91.3 MHz. ---											
217C2 College Place	KGTS	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	72.0 1139	16.4 Walla Walla University	-149.5*	-183.0*
219C3 Kennewick	KBLD	LIC _CN WA		278.5 97.8	77.30 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	2.5 640	32.7 Calvary Chapel Of Tri-citi	-5.9*	36.1
270C2 Weston	KZIU-FM	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
216C Spokane	KPBX-FM	LIC _CN WA		24.7 205.5	194.72 BMLED19831028AB	47 34 13.0 117 05 00.0	56.000 725	136.1 1571	92.6 Spokane Public Radio, Inc.	-1.0	16.8
--- Channel 218 91.5 MHz. ---											
217C2 College Place	KGTS	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	24.4 1139	16.4 Walla Walla University	-101.9*	-130.0*
219C3 Kennewick	KBLD	LIC _CN WA		278.5 97.8	77.30 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	49.2 640	32.7 Calvary Chapel Of Tri-citi	-52.6*	-74.1*
218C2 Moses Lake	KLWS	LIC _C_ WA		324.4 143.4	182.93 BLED19970609KD	47 18 50.0 119 34 55.0	7.200 209	119.4 727	49.4 Washington State Universit	-13.8	-31.9
219C1 Moscow	KRFA-FM	LIC _VX ID		49.5 230.3	120.32 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	87.1 1128	57.0 Washington State Universit	-11.1	-7.0
272A Dayton	AU9816241«	VAC ____ WA		19.9 200.0	37.98 RM11714	46 18 20.0 118 00 03.0	6.000 100	0.0 747	0.0 Brett E. Miller	21.5R	16.5M
272A Dayton	1620107«	APP NCX WA		19.6 199.7	40.97 BNPH20140121NGP	46 19 54.0 117 59 26.0	0.500 64	0.0 683	0.0 Brett E. Miller	21.5R	19.5M
--- Channel 219 91.7 MHz. ---											
219C3 Kennewick	KBLD	LIC _CN WA		278.5 97.8	77.30 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	88.8 640	32.7 Calvary Chapel Of Tri-citi	-92.1*	-127.6*
217C2 College Place	KGTS	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	1.6 1139	16.4 Walla Walla University	-79.1*	-23.1*
219C1 Moscow	KRFA-FM	LIC _VX ID		49.5 230.3	120.32 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	141.3 1128	57.0 Washington State Universit	-65.4*	-56.6*
219A La Grande	KEOL	LIC _HN OR		175.2 355.3	74.01 BLED19850201LO	45 19 16.0 118 05 26.0	0.310 -228	25.1 878	7.5 Oregon St Bd Of Higher Ed	7.7	-17.7*
272A Dayton	AU9816241«	VAC ____ WA		19.9 200.0	37.98 RM11714	46 18 20.0 118 00 03.0	6.000 100	0.0 747	0.0 Brett E. Miller	21.5R	16.5M
272A Dayton	1620107«	APP NCX WA		19.6 199.7	40.97 BNPH20140121NGP	46 19 54.0 117 59 26.0	0.500 64	0.0 683	0.0 Brett E. Miller	21.5R	19.5M
--- Channel 220 91.9 MHz. ---											
221C3 Pilot Rock	KUMA-FM% ^A	LIC _CX OR		235.9 55.3	78.02 BLH20060706ACT	45 35 21.0 118 59 54.0	25.000 100	79.5 642	53.9 Uma, Llc	132.5R	-54.5M
223C1 Dayton	KZHR% ^A	LIC _CN WA		318.6 138.6	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 College Place	KGTS	LIC _CX WA		319.0 139.0	0.63 BLED20021217ABR	45 59 20.0 118 10 29.0	7.000 381	1.6 1139	16.4 Walla Walla University	-79.1*	-23.1*
219C3 Kennewick	KBLD	LIC _CN WA		278.5 97.8	77.30 BLED19980102KA	46 04 58.0 119 09 39.0	1.800 296	49.2 640	32.7 Calvary Chapel Of Tri-citi	-52.6*	-74.1*
220C1 Yakima	KDNA	LIC _C_ WA		289.4 107.7	190.36 BMLED20060906ABQ	46 31 42.0 120 31 03.0	18.500 280	138.8 641	52.2 Northwest Communities Educ	-25.8	-38.9
219C1 Moscow	KRFA-FM	LIC _VX ID		49.5 230.3	120.32 BLED20090312ABT	46 40 54.0 116 58 13.0	28.000 282	87.1 1128	57.0 Washington State Universit	-11.1	-7.0
221A Enterprise	KWVR-FM% ^A	LIC _CX OR		134.7 315.3	104.30 BLH20030214ABJ	45 19 19.0 117 13 18.0	6.000 100	94.3 1844	60.0 wallowa Valley Radio, Llc	110.5R	-6.2M
220A Baker City	KESY	LIC _CX OR		170.4 350.6	137.36 BLED20141105ADR	44 45 57.0 117 52 49.0	0.820 221	97.7 1482	36.7 Idaho Conference Of Sevent	-1.3	25.9

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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*
274C0 Richland	KORD-FM«	LIC _CX WA		280.2 99.5	75.28 BLH20091009ADP	46 05 58.4 119 07 40.2	100.000 404	0.0 721	0.0 Townsquare Media	36.5R	38.8M Tri-citie

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