

Request for Waiver – Displacement Relief

Washington State University

Minor Change to FM Translator Station K210AE, Pullman, WA

Washington State University (WSU) respectfully requests a waiver of Section 74.1233(a)(1) of the FCC's Rules in connection with the instant application for a minor change to the license facility of FM translator station K210AE, Pullman, Washington. This application seeks displacement relief to modify the existing FM translator station for use of Channel 246.

FM Translator Displacement. FM translator Station K210AE has been in use since it was originally licensed in 1983 (see File No. BLFT-19830616MG). The station was assigned to WSU in 1990 in File No. BALFT-19890511TE. Presently, however, station K210AE is facing displacement from its operating frequency due to the co-channel new full service NCE FM station applications in FCC File Nos. BNPED-20071022AVN and BNPED-20071018BDI. The addition of a full-service FM station on 89.9 in Pullman will displace WSU's FM translator K210AE and require the translator to broadcast over a different frequency.

Channel Availability and Preclusion. The Channel Preclusion studies included with this request and performed at only 0.01 kW ERP demonstrate that WSU cannot use any adjacent, second adjacent, third adjacent or I.F. channel in connection with the modification of FM translator K210AE even at a much reduced ERP. As a result, WSU is unable to propose a channel change for this translator which corresponds with the minor change provisions of Section 74.1233(a)(1), which states that a major change for an FM translator station is "...is any change in frequency (output channel) except changes to first, second or third adjacent channels, or intermediate frequency channels, and any change in antenna location where the station would not continue to provide 1 mV/m service to some portion of its previously authorized 1 mV/m service area. All other changes will be considered minor."

Use of Channel 246. As detailed in the instant application, however, WSU may utilize the proposed channel 246 for this FM translator station in compliance with all applicable protection requirements and technical considerations. Accordingly, WSU requests a waiver of Section 74.1233(a)(1) to permit displacement of K210AE to channel 246.

WSU respectfully submits that the public interest will be well served by the requested channel change and waiver, which would allow continued use of this FM translator station to broadcast noncommercial educational programming to the Pullman, Washington area. WSU utilizes FM translator K210AE to rebroadcast the signal of co-licensed noncommercial educational radio station KRFA(FM), Moscow, Idaho. As part of WSU's Northwest Public Radio network, KRFA(FM) and K210AE provide noncommercial educational programming, including news and classical music for their local communities. Northwest Public Radio's mission is to inform, enrich and inspire its audience through programs and services that share ideas, encourage thought, create community and increase appreciation of the arts.

Washington State University

Kamalak Displacement

REFERENCE CH# 213D - 90.5 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
46 51 43.0 N.
117 10 26.0 W.
Average Protected F(50-50)= 10.8 km
Omni-directional

DISPLAY DATES
DATA 04-14-10
SEARCH 04-20-10

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
210D	K210AE	LIC	DEN	0.0	0.0	46 51 43.0	0.823	1.8	30.5	-12.2*<	-30.7*<
Pullman		WA		0.0	BLFT19830616MG	117 10 26.0	343	1113	Washington State University		
Translator for KLWS, Moses Lake WA.											
212A	1204815	APP	DEX	105.9	20.5	46 48 40.0	0.110	28.3	18.9	-17.5*<	-12.0*<
Moscow		ID		286.1	BNPED20071018BDS	116 54 55.0	499	1399	Radio Free Moscow, Inc.		
212A	1215830	APP	DVX	106.1	20.5	46 48 38.0	0.090	26.9	17.9	-16.1*<	-11.0*<
Moscow		ID		286.3	BNPED20071022BDP	116 54 55.0	494	1395	Fire Media Corporation		
10/3/2008: Accepted on channel 212A by Industry Canada in 9/26/2008 letter. Note: not specially negotiated.											
216C	KPBX-FM	LIC	_CN	4.9	79.0	47 34 13.0	56.000	12.4	91.7	56.4	-12.9*<
Spokane		WA		185.0	BMLED19831028AB	117 05 00.0	725	1571	Spokane Public Radio, Inc.		
214A	KZUU	LIC	_CX	176.3	14.6	46 43 51.0	0.420	11.5	8.1	-7.5*<	-8.5*<
Pullman		WA		356.4	BLED20090210AAL	117 09 42.0	30	821	Washington State University		
213A	KNWV	LIC	_CX	172.8	45.3	46 27 26.0	0.420	41.7	12.1	-7.0*<	-2.2*<
Clarkston		WA		352.9	BLED20090312ABV	117 06 00.0	322	908	Washington State University		
211A	1360283	APP	_CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse		WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1275021	APP	_CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse		WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
9/24/2008: Accepted on channel 211A by Industry Canada in 9/5/2008 letter. Note: not specially negotiated.											
211A	1360405	APP	_CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse		WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
210A	1217039	APP	DCX	165.6	26.3	46 37 59.0	0.350	0.8	17.1	15.0	8.9
Pullman		WA		345.6	BNPED20071022AVN	117 05 17.0	240	1057	Washington State University		
10/31/2008: Accepted on channel 210A by Industry Canada in 10/10/2008 letter. Note: not specially negotiated.											
210A	1204818	APP	DCX	178.6	26.7	46 37 18.0	0.750	1.6	15.9	14.4	10.6
Pullman		WA		358.6	BNPED20071018BDI	117 09 56.0	102	881	Radio Free Moscow, Inc.		
7/29/2008: Accepted on channel 210A by Industry Canada by letter dated 7/16/2008. Note: not specially negotiated.											
215D	K215EB	LIC	DC_	172.8	45.3	46 27 26.0	0.052	0.1	2.5	34.7	42.7
Clarkston		WA		352.9	BLFT20041118ACK	117 06 00.0		898	Washington State University		
212C3	970820MA	APP	_VN	4.1	107.8	47 49 46.0	0.900	60.2	39.2	37.4	54.2
Rathdrum		ID		184.1	BPED19970820MA	117 04 18.0	311	1176	American Family Association		
Accepted as Class B1 by Canada 980507											
213D	K213BN	LIC	DC_	117.9	83.1	46 30 33.0	0.050	13.8	4.2	59.4	46.1
Orofino		ID		298.6	BLFT20081008AAH	116 12 59.0		969	Alacca Bible Conference, I		
212A	KPBZ	CP	_CX	346.8	108.7	47 48 48.0	0.550	46.7	30.6	51.2	62.9
Spokane		WA		166.6	BMPED20090121AIP	117 30 23.0	330	958	Spokane Public Radio, Inc.		
213C2	1206685	APP	DCX	256.3	194.9	46 25 17.0	1.000	125.3	52.2	58.3	103.7
Prosser		WA		74.5	BNPED20071018AQJ	119 38 17.0	636	1093	Northwest Communities Educ		
9/15/2008: Accepted on channel 213B by Industry Canada in 8/29/2008 letter. Note: not specially negotiated.											

Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.
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.

Washington State University

Kamalak Displacement

REFERENCE CH# 212D - 90.3 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
46 51 43.0 N.
117 10 26.0 W.
Average Protected F(50-50)= 10.8 km
Omni-directional

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210D	K210AE	LIC DEN	0.0	0.0	46 51 43.0	0.823	1.8	30.5	-12.2*<	-30.7*<
Pullman		WA	0.0	BLFT19830616MG	117 10 26.0	343	1113	Washington State University		
Translator for KLWS, Moses Lake WA.										
212A	1204815	APP DEX	105.9	20.5	46 48 40.0	0.110	63.6	18.9	-52.9*<	-30.8<
Moscow		ID	286.1	BNPED20071018BDS	116 54 55.0	499	1399	Radio Free Moscow, Inc.		
212A	1215830	APP DVX	106.1	20.5	46 48 38.0	0.090	61.1	17.9	-50.4*<	-29.8<
Moscow		ID	286.3	BNPED20071022BDP	116 54 55.0	494	1395	Fire Media Corporation		
10/3/2008: Accepted on channel 212A by Industry Canada in 9/26/2008 letter. Note: not specially negotiated.										
211A	1360405	APP _CX	43.3	16.9	46 58 20.0	0.500	14.2	10.2	-7.7<	-7.9<
Palouse		WA	223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1360283	APP _CX	43.3	16.9	46 58 20.0	0.500	14.2	10.2	-7.7<	-7.9<
Palouse		WA	223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1275021	APP _CX	43.3	16.9	46 58 20.0	0.500	14.2	10.2	-7.7<	-7.9<
Palouse		WA	223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
9/24/2008: Accepted on channel 211A by Industry Canada in 9/5/2008 letter. Note: not specially negotiated.										
212C3	970820MA	APP _VN	4.1	107.8	47 49 46.0	0.900	104.2	39.2	-6.6<	34.2
Rathdrum		ID	184.1	BPED19970820MA	117 04 18.0	311	1176	American Family Association		
Accepted as Class B1 by Canada 980507										
214A	KZUU	LIC _CX	176.3	14.6	46 43 51.0	0.420	1.4	8.1	2.5	6.3
Pullman		WA	356.4	BLED20090210AAL	117 09 42.0	30	821	Washington State University		
210A	1217039	APP DCX	165.6	26.3	46 37 59.0	0.350	0.8	17.1	15.0	8.9
Pullman		WA	345.6	BNPED20071022AVN	117 05 17.0	240	1057	Washington State University		
10/31/2008: Accepted on channel 210A by Industry Canada in 10/10/2008 letter. Note: not specially negotiated.										
210A	1204818	APP DCX	178.6	26.7	46 37 18.0	0.750	1.6	15.9	14.4	10.6
Pullman		WA	358.6	BNPED20071018BDI	117 09 56.0	102	881	Radio Free Moscow, Inc.		
7/29/2008: Accepted on channel 210A by Industry Canada by letter dated 7/16/2008. Note: not specially negotiated.										
212A	KPBZ	CP _CX	346.8	108.7	47 48 48.0	0.550	85.7	30.6	12.2	41.9
Spokane		WA	166.6	BMPED20090121AIP	117 30 23.0	330	958	Spokane Public Radio, Inc.		
213A	KNWV	LIC _CX	172.8	45.3	46 27 26.0	0.420	17.6	12.1	17.1	18.4
Clarkston		WA	352.9	BLED20090312ABV	117 06 00.0	322	908	Washington State University		
215D	K215EB	LIC DC_	172.8	45.3	46 27 26.0	0.052	0.1	2.5	34.7	42.7
Clarkston		WA	352.9	BLFT20041118ACK	117 06 00.0		898	Washington State University		
209A	KAUC	CP _CN	164.9	48.7	46 26 20.0	0.500	1.6	8.5	36.6	40.0
West Clarkston		WA	345.0	BPED19990129MD	117 00 31.0	-185	374	Upper Columbia Media Corp		
7/6/2005: Accepted on 209A by Canada in 6/22/05 letter, not short-spaced.										
211C3	KNWO	LIC _CN	148.1	103.6	46 04 09.0	0.250	44.9	28.8	48.2	60.1
Cottonwood		ID	328.6	BLED19940207KA	116 27 54.0	612	1759	Washington State University		

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Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt (Y,N,X)
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REFERENCE CH# 211D - 90.1 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
46 51 43.0 N. Average Protected F(50-50)= 10.8 km
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210D	K210AE	LIC DEN	0.0	0.0	46 51 43.0	0.823	46.1	30.5	-56.5*<	-45.0*<
Pullman		WA	0.0	BLFT19830616MG	117 10 26.0	343	1113	Washington State University		
Translator for KLWS, Moses Lake WA.										
211A	1275021	APP _CX	43.3	16.9	46 58 20.0	0.500	34.8	10.2	-28.3*<	-28.0<
Palouse		WA	223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
9/24/2008: Accepted on channel 211A by Industry Canada in 9/5/2008 letter. Note: not specially negotiated.										
211A	1360283	APP _CX	43.3	16.9	46 58 20.0	0.500	34.8	10.2	-28.3*<	-28.0<
Palouse		WA	223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1360405	APP _CX	43.3	16.9	46 58 20.0	0.500	34.8	10.2	-28.3*<	-28.0<
Palouse		WA	223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
212A	1204815	APP DEX	105.9	20.5	46 48 40.0	0.110	28.3	18.9	-17.5*<	-12.0<
Moscow		ID	286.1	BNPED20071018BDS	116 54 55.0	499	1399	Radio Free Moscow, Inc.		
212A	1215830	APP DVX	106.1	20.5	46 48 38.0	0.090	26.9	17.9	-16.1*<	-11.0<
Moscow		ID	286.3	BNPED20071022BDP	116 54 55.0	494	1395	Fire Media Corporation		
10/3/2008: Accepted on channel 212A by Industry Canada in 9/26/2008 letter. Note: not specially negotiated.										
210A	1217039	APP DCX	165.6	26.3	46 37 59.0	0.350	25.6	17.1	-9.9<	-5.7<
Pullman		WA	345.6	BNPED20071022AVN	117 05 17.0	240	1057	Washington State University		
10/31/2008: Accepted on channel 210A by Industry Canada in 10/10/2008 letter. Note: not specially negotiated.										
210A	1204818	APP DCX	178.6	26.7	46 37 18.0	0.750	23.7	15.9	-7.7<	-4.2<
Pullman		WA	358.6	BNPED20071018BDI	117 09 56.0	102	881	Radio Free Moscow, Inc.		
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211C3	KNWO	LIC _CN	148.1	103.6	46 04 09.0	0.250	85.4	28.8	7.7	39.8
Cottonwood		ID	328.6	BLED19940207KA	116 27 54.0	612	1759	Washington State University		
208C1	KEWU-FM	LIC _CN	353.4	80.2	47 34 43.0	10.000	5.4	56.6	64.3	23.4
Cheney		WA	173.3	BLED19861117KA	117 17 50.0	429	1148	Eastern Washington University		
SPEC NEGTD SHORT SPACED ALLOC-LTD TO 100 KW @ 340 M.										
213A	KNWV	LIC _CX	172.8	45.3	46 27 26.0	0.420	1.4	12.1	33.3	33.1
Clarkston		WA	352.9	BLED20090312ABV	117 06 00.0	322	908	Washington State University		
209A	KAUC	CP _CN	164.9	48.7	46 26 20.0	0.500	1.6	8.5	36.6	40.0
West Clarkston		WA	345.0	BPED19990129MD	117 00 31.0	-185	374	Upper Columbia Media Corp		
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212C3	970820MA	APP _VN	4.1	107.8	47 49 46.0	0.900	60.2	39.2	37.4	54.2
Rathdrum		ID	184.1	BPED19970820MA	117 04 18.0	311	1176	American Family Association		
Accepted as Class B1 by Canada 980507										
210C1	KYMS	LIC ZVX	18.6	144.7	48 05 38.0	11.000	95.5	64.8	38.9	65.4
Rathdrum		ID	199.0	BLED20080319ABI	116 33 12.0	595	1389	Calvary Chapel Of Costa Mesa		
211C2	KOLU	LIC _C_	241.1	175.4	46 04 59.0	4.100	117.5	47.2	46.6	89.3
Pasco		WA	59.6	BLED19951204KE	119 09 38.0	305	648	Riverview Baptist Church		
212A	KPBZ	CP _CX	346.8	108.7	47 48 48.0	0.550	46.7	30.6	51.2	62.9
Spokane		WA	166.6	BMPED20090121AIP	117 30 23.0	330	958	Spokane Public Radio, Inc.		
210L1	KYRS-LP	LIC _	345.1	77.2	47 31 58.0	0.100	8.0	5.6	58.5	56.5
Spokane		WA	164.9	BLL20061219ACL	117 26 20.0	30	739	Thin Air Community Radio		

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Rathdrum		ID		199.0	BLED20080319ABI	116 33 12.0	595	1389	Calvary Chapel Of Costa Me		
211A	1360283	APP	_CX	43.3	16.9	46 58 20.0	0.500	14.2	10.2	-7.7*<	-7.9*<
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Moscow		ID		319.3	BLED19950227KB	117 00 22.0	-35	817	University Of Idaho		
Vertical Polarization Only											
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Spokane		WA		164.9	BLL20061219ACL	117 26 20.0	30	739	Thin Air Community Radio		
207D	K207D0	LIC	_C_	162.9	51.7	46 25 02.0	0.040	0.4	4.4	40.8	47.1
Lewiston		ID		343.0	BLFT20010703ABH	116 58 31.0		346	Calvary Chapel Of Twin Fal		
211C3	KNWO	LIC	_CN	148.1	103.6	46 04 09.0	0.250	44.9	28.8	48.2	60.1
Cottonwood		ID		328.6	BLED19940207KA	116 27 54.0	612	1759	Washington State University		
207A	KJCF	LIC	_CX	170.3	59.7	46 19 56.0	0.175	0.9	6.5	48.3	53.0
Asotin		WA		350.4	BLED20090121ADR	117 02 34.0	-100	426	Calvary Chapel Of Twin Fal		
209C2	KWWS	LIC	_CN	218.4	124.0	45 59 04.0	3.200	64.4	42.9	48.5	65.3
Walla Walla		WA		37.7	BLED19970609KE	118 10 08.0	410	1206	Washington State University		

Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.
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.

Washington State University

Kamalak Displacement

REFERENCE CH# 209D - 89.7 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
46 51 43.0 N.
117 10 26.0 W.
Average Protected F(50-50)= 10.8 km
Omni-directional

DISPLAY DATES
DATA 04-14-10
SEARCH 04-20-10

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*
210D	K210AE	LIC DEN	0.0	0.0	46 51 43.0	0.823	46.1	30.5	-56.5*<	-45.0*<
Pullman	WA		0.0	BLFT19830616MG	117 10 26.0	343	1113	Washington State University		
Translator for KLWS, Moses Lake WA.										
208C1	KEWU-FM	LIC _CN	353.4	80.2	47 34 43.0	10.000	84.1	56.6	-14.3*<	8.9
Cheney	WA		173.3	BLED19861117KA	117 17 50.0	429	1148	Eastern Washington University		
SPEC NEGTD SHORT SPACED ALLOC-LTD TO 100 KW @ 340 M.										
210A	1217039	APP DCX	165.6	26.3	46 37 59.0	0.350	25.6	17.1	-9.9*<	-5.7*<
Pullman	WA		345.6	BNPED20071022AVN	117 05 17.0	240	1057	Washington State University		
10/31/2008: Accepted on channel 210A by Industry Canada in 10/10/2008 letter. Note: not specially negotiated.										
210A	1204818	APP DCX	178.6	26.7	46 37 18.0	0.750	23.7	15.9	-7.7*<	-4.2*<
Pullman	WA		358.6	BNPED20071018BDI	117 09 56.0	102	881	Radio Free Moscow, Inc.		
7/29/2008: Accepted on channel 210A by Industry Canada by letter dated 7/16/2008. Note: not specially negotiated.										
212A	1204815	APP DEX	105.9	20.5	46 48 40.0	0.110	0.4	18.9	10.3	1.4
Moscow	ID		286.1	BNPED20071018BDS	116 54 55.0	499	1399	Radio Free Moscow, Inc.		
212A	1215830	APP DVX	106.1	20.5	46 48 38.0	0.090	0.4	17.9	10.4	2.4
Moscow	ID		286.3	BNPED20071022BDP	116 54 55.0	494	1395	Fire Media Corporation		
10/3/2008: Accepted on channel 212A by Industry Canada in 9/26/2008 letter. Note: not specially negotiated.										
209A	KAUC	CP _CN	164.9	48.7	46 26 20.0	0.500	28.5	8.5	9.6	4.9
West Clarkston	WA		345.0	BPED19990129MD	117 00 31.0	-185	374	Upper Columbia Media Corp		
7/6/2005: Accepted on 209A by Canada in 6/22/05 letter, not short-spaced.										
211A	1275021	APP _CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse	WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
9/24/2008: Accepted on channel 211A by Industry Canada in 9/5/2008 letter. Note: not specially negotiated.										
211A	1360283	APP _CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse	WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1360405	APP _CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse	WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
209C2	KWWS	LIC _CN	218.4	124.0	45 59 04.0	3.200	107.6	42.9	5.3	43.6
Walla Walla	WA		37.7	BLED19970609KE	118 10 08.0	410	1206	Washington State University		
207A	KUOI-FM	LIC _VN	139.2	19.6	46 43 43.0	0.400	1.4	8.0	7.9	11.4
Moscow	ID		319.3	BLED19950227KB	117 00 22.0	-35	817	University Of Idaho		
Vertical Polarization Only										
210C1	KYMS	LIC ZVX	18.6	144.7	48 05 38.0	11.000	95.5	64.8	38.9	65.4
Rathdrum	ID		199.0	BLED20080319ABI	116 33 12.0	595	1389	Calvary Chapel Of Costa Me		
207D	K207DO	LIC _C_	162.9	51.7	46 25 02.0	0.040	0.4	4.4	40.8	47.1
Lewiston	ID		343.0	BLFT20010703ABH	116 58 31.0		346	Calvary Chapel Of Twin Fal		
207A	KJCF	LIC _CX	170.3	59.7	46 19 56.0	0.175	0.9	6.5	48.3	53.0
Asotin	WA		350.4	BLED20090121ADR	117 02 34.0	-100	426	Calvary Chapel Of Twin Fal		
210L1	KYRS-LP	LIC _	345.1	77.2	47 31 58.0	0.100	8.0	5.6	58.5	56.5
Spokane	WA		164.9	BLL20061219ACL	117 26 20.0	30	739	Thin Air Community Radio		

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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.

Washington State University

Kamalak Displacement

REFERENCE CH# 208D - 89.5 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
46 51 43.0 N.
117 10 26.0 W.
Average Protected F(50-50)= 10.8 km
Omni-directional

DISPLAY DATES
DATA 04-14-10
SEARCH 04-20-10

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
210D	K210AE	LIC	DEN	0.0	0.0	46 51 43.0	0.823	1.8	30.5	-12.2*<	-30.7*<
Pullman		WA		0.0	BLFT19830616MG	117 10 26.0	343	1113	Washington State University		
Translator for KLWS, Moses Lake WA.											
208C1	KEWU-FM	LIC	_CN	353.4	80.2	47 34 43.0	10.000	134.9	56.6	-65.1*<	-11.5*<
Cheney		WA		173.3	BLED19861117KA	117 17 50.0	429	1148	Eastern Washington University		
SPEC NEGTD SHORT SPACED ALLOC-LTD TO 100 KW @ 340 M.											
205D	678318	APP	_V_	64.2	0.1	46 51 44.0	0.013	0.3	12.1	-10.7*<	-12.2*<
Palouse		WA		244.2	BNPFT20000315AAM	117 10 23.0		1099	Calvary Chapel Of Twin Falls		
207A	KUOI-FM	LIC	_VN	139.2	19.6	46 43 43.0	0.400	11.4	8.0	-2.1*<	-2.9*<
Moscow		ID		319.3	BLED19950227KB	117 00 22.0	-35	817	University Of Idaho		
Vertical Polarization Only											
211A	1360283	APP	_CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse		WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1360405	APP	_CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse		WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
211A	1275021	APP	_CX	43.3	16.9	46 58 20.0	0.500	1.6	10.2	4.9	6.5
Palouse		WA		223.4	BNPED20071022AEY	117 01 18.0	9	846	Country Roots Preservation		
9/24/2008: Accepted on channel 211A by Industry Canada in 9/5/2008 letter. Note: not specially negotiated.											
210A	1217039	APP	DCX	165.6	26.3	46 37 59.0	0.350	0.8	17.1	15.0	8.9
Pullman		WA		345.6	BNPED20071022AVN	117 05 17.0	240	1057	Washington State University		
10/31/2008: Accepted on channel 210A by Industry Canada in 10/10/2008 letter. Note: not specially negotiated.											
210A	1204818	APP	DCX	178.6	26.7	46 37 18.0	0.750	1.6	15.9	14.4	10.6
Pullman		WA		358.6	BNPED20071018BDI	117 09 56.0	102	881	Radio Free Moscow, Inc.		
7/29/2008: Accepted on channel 210A by Industry Canada by letter dated 7/16/2008. Note: not specially negotiated.											
209A	KAUC	CP	_CN	164.9	48.7	46 26 20.0	0.500	12.0	8.5	26.2	25.4
West Clarkston		WA		345.0	BPED19990129MD	117 00 31.0	-185	374	Upper Columbia Media Corpo		
7/6/2005: Accepted on 209A by Canada in 6/22/05 letter, not short-spaced.											
207D	K207DO	LIC	_C_	162.9	51.7	46 25 02.0	0.040	6.3	4.4	34.9	32.5
Lewiston		ID		343.0	BLFT20010703ABH	116 58 31.0		346	Calvary Chapel Of Twin Falls		
207A	KJCF	LIC	_CX	170.3	59.7	46 19 56.0	0.175	9.3	6.5	39.9	38.5
Asotin		WA		350.4	BLED20090121ADR	117 02 34.0	-100	426	Calvary Chapel Of Twin Falls		
205A	KLCZ	LIC	_CX	167.2	51.2	46 24 45.0	0.230	1.1	6.9	39.6	44.1
Lewiston		ID		347.3	BLED20061108AAQ	117 01 31.0	-256	278	Lewis - Clark State College		
209C2	KWWS	LIC	_CN	218.4	124.0	45 59 04.0	3.200	64.4	42.9	48.5	65.3
Walla Walla		WA		37.7	BLED19970609KE	118 10 08.0	410	1206	Washington State University		

Terrain database is USGS 03 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.
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.

Washington State University

Kamalak Displacement

REFERENCE CH# 207D - 89.3 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
46 51 43.0 N. Average Protected F(50-50)= 10.8 km
117 10 26.0 W. Omni-directional

DISPLAY DATES
DATA 04-14-10
SEARCH 04-20-10

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*
210D Pulman Translator for KLWS, Moses Lake WA.	K210AE	LIC DEN WA	0.0 0.0	0.0 BLFT19830616MG	46 51 43.0 117 10 26.0	0.823 343	1.8 1113	30.5 Washington State University	-12.2*<	-30.7*<
207A Moscow Vertical Polarization Only	KUOI-FM	LIC _VN ID	139.2 319.3	19.6 BLED19950227KB	46 43 43.0 117 00 22.0	0.400 -35	26.9 817	8.0 University Of Idaho	-17.6*<	-22.9*<
208C1 Cheney SPEC NEGTD SHORT SPACED ALLOC-LTD TO 100 KW @ 340 M.	KEWU-FM	LIC _CN WA	353.4 173.3	80.2 BLED19861117KA	47 34 43.0 117 17 50.0	10.000 429	84.1 1148	56.6 Eastern Washington University	-14.3*<	8.9
205D Palouse	678318	APP _V_ WA	64.2 244.2	0.1 BNPFT20000315AAM	46 51 44.0 117 10 23.0	0.013 1099	0.3 1099	12.1 Calvary Chapel Of Twin Falls	-10.7*<	-12.2*<
210A Pulman 10/31/2008: Accepted on channel	1217039	APP DCX WA	165.6 345.6	26.3 BNPED20071022AVN	46 37 59.0 117 05 17.0	0.350 240	0.8 1057	17.1 Washington State University	15.0	8.9
210A by Industry Canada in 10/10/2008 letter. Note: not specially negotiated.										
210A Pulman 7/29/2008: Accepted on channel	1204818	APP DCX WA	178.6 358.6	26.7 BNPED20071018BDI	46 37 18.0 117 09 56.0	0.750 102	1.6 881	15.9 Radio Free Moscow, Inc.	14.4	10.6
210A by Industry Canada by letter dated 7/16/2008. Note: not specially negotiated.										
207D Lewiston	K207D0	LIC _C_ ID	162.9 343.0	51.7 BLFT20010703ABH	46 25 02.0 116 58 31.0	0.040 346	14.2 346	4.4 Calvary Chapel Of Twin Falls	27.0	12.1
207A Asotin	KJCF	LIC _CX WA	170.3 350.4	59.7 BLED20090121ADR	46 19 56.0 117 02 34.0	0.175 -100	21.6 426	6.5 Calvary Chapel Of Twin Falls	27.6	18.0
204C1 Spokane	KAGU	LIC _CX WA	353.4 173.4	80.5 BLED20041119ADR	47 34 52.0 117 17 47.0	5.000 466	4.3 1187	52.0 Gonzaga University Telecom	65.7	28.3
209A West Clarkston 7/6/2005: Accepted on 209A by Canada in 6/22/05 letter, not short-spaced.	KAUC	CP _CN WA	164.9 345.0	48.7 BPED19990129MD	46 26 20.0 117 00 31.0	0.500 -185	1.6 374	8.5 Upper Columbia Media Corp	36.6	40.0
205A Lewiston	KLCZ	LIC _CX ID	167.2 347.3	51.2 BLED20061108AAQ	46 24 45.0 117 01 31.0	0.230 -256	1.1 278	6.9 Lewis - Clark State College	39.6	44.1
207C3 Kellogg 5/13/2008: Accepted on channel	KLGG	CP DEX ID	47.7 228.4	105.0 BNPED20071019AAH	47 29 32.0 116 08 33.0	0.100 782	54.9 1904	14.8 Spokane Public Radio, Inc.	39.7	55.4
207B1 by Industry Canada in 5/12/2008 letter, not specially negotiated.										
206C Richland	KFAE-FM	LIC _E_ WA	241.9 60.4	177.1 BLED20010726AAH	46 05 43.0 119 11 41.0	100.000 350	124.6 697	83.8 Washington State University	41.1	76.7
207C Nespelem 3/30/2009: Accepted on channel	1211690	APP DCX WA	318.6 137.0	238.4 BNPED20071018AWD	48 26 55.0 119 18 28.0	25.000 819	179.3 1803	85.0 Confederated Tribes Of The	47.7	114.7
207C by Industry Canada in 3/19/2009 letter as a specially negotiated, short-spaced allotment limited to 14.93 kW ERP and 636.9 m HAAT or the equivalent towards channel 207A in Nakusp, BC (Az. = 29 deg).										
206D Spokane	K206CQ	LIC _C_ WA	353.4 173.3	80.2 BLFT20030502ABG	47 34 43.0 117 17 50.0	0.010 433	17.0 1143	11.6 Way-fm Meida Group, Inc	52.8	53.9

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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.

Washington State University

Kamalak Displacement

REFERENCE CH# 264D - 100.7 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
 46 51 43.0 N.
 117 10 26.0 W.
 Average Protected F(50-50)= 10.8 km
 Omni-directional

DISPLAY DATES
 DATA 04-14-10
 SEARCH 04-20-10

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
263C3 Troy	KQZB	LIC ID	NCX	105.8 286.0	20.4 BLH20080522ABE	46 48 42.0 116 54 59.0	0.900 487	62.6 1389	40.6 Pacifi c Empire Radi o Corp	-51.9*<	-33.9*<
264D Pul I man	648289	APP WA	_C_	196.5 16.5	19.2 BNPFT20030317MRJ	46 41 46.9 117 14 44.0	0.034	32.9 907	9.8 Edgewater Broadcasting, In	-24.7*<	-28.0*<
264C2 Athena	KHSS	LIC OR	_CX	218.7 38.0	123.8 BLH20091029AAL	45 59 23.0 118 10 31.0	6.300 403	119.7 1168	49.1 Two Hearts Communications,	-7.0*<	37.2
263D Pul I man	634749	APP WA	_C_	189.4 9.4	15.2 BNPFT20030313BEJ	46 43 36.0 117 12 24.0	0.013	6.5 840	4.7 Educational Media Foundati	-2.2*<	-4.9*<
266C Cheney	KEYF-FM	LIC WA	_C_	353.6 173.5	81.8 BMLH19990219KD	47 35 35.0 117 17 46.0	100.000 490	12.0 1196	82.5 Mapleton License Of Spokan	59.3	-0.9*<
262D Col fax	648461	APP WA	_C_	296.8 116.7	12.8 BNPFT20030317KOU	46 54 50.0 117 19 27.9	0.092	0.7 825	6.9 Edgewater Broadcasting, In	0.7	5.7
262D Potlatch	635122	APP ID	_V_	106.0 286.2	20.5 BNPFT20030312AGE	46 48 40.0 116 54 57.0	0.010	0.2 1388	12.8 Calvary Chapel Of Twin Fal	10.5	7.5
265D Lewi ston TRANSLATOR FOR KMBI -FM, SPOKANE, WA.	K265AP	LIC ID	_CN	164.8 344.9	46.1 BLFT19811116IB	46 27 42.0 117 00 58.0	0.108 229	8.2 832	5.7 Alacca Bible Conference	27.4	25.6
264D Cheney	640143	APP WA	_C_	324.2 143.7	78.7 BNPFT20030317EAY	47 26 01.0 117 47 08.0	0.250	30.1 730	9.1 Educational Media Foundati	37.5	31.8
262D Lewi ston	645780	APP ID	_C_	172.7 352.8	45.3 BNPFT20030317ERI	46 27 27.4 117 05 56.4	0.010	0.2 961	6.4 Edgewater Broadcasting, In	34.5	38.7
264C Bi gfork	KIBG	LIC MT	_CX	64.1 246.2	242.0 BLH20041115ADX	47 46 25.0 114 16 04.0	85.000 646	194.9 1661	90.6 Anderson Radi o Broadcastin	36.6	116.3
264D Spokane	648299	APP WA	_C_	350.3 170.2	92.8 BNPFT20030317MQW	47 41 03.4 117 22 56.2	0.250	23.8 632	7.1 Edgewater Broadcasting, In	58.4	50.2

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 Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.
 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.

Washington State University

Kamalak Displacement

REFERENCE CH# 263D - 100.5 MHz, Pwr= 0.01 kW, HAAT= 343.0 M, COR= 1113 M
 46 51 43.0 N.
 117 10 26.0 W.
 Average Protected F(50-50)= 10.8 km
 Omni-directional

DISPLAY DATES
 DATA 04-14-10
 SEARCH 04-20-10

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
263C3 Troy	KQZB	LIC ID	NCX	105.8 286.0	20.4 BLH20080522ABE	46 48 42.0 116 54 59.0	0.900 487	107.3 1389	40.6 Pacifi c Empire Radi o Corp	-96.6*<	-52.6*<
263D Pul I man	634749	APP WA	_C_	189.4 9.4	15.2 BNPFT20030313BEJ	46 43 36.0 117 12 24.0	0.013	14.7 840	4.7 Educational Media Foundati	-10.4<	-26.3<
262D Col fax	648461	APP WA	_C_	296.8 116.7	12.8 BNPFT20030317KOU	46 54 50.0 117 19 27.9	0.092	10.0 825	6.9 Edgewater Broadcasting, In	-8.6<	-10.9<
262D Potlatch	635122	APP ID	_V_	106.0 286.2	20.5 BNPFT20030312AGE	46 48 40.0 116 54 57.0	0.010	19.7 1388	12.8 Calvary Chapel Of Twin Fal	-9.0<	-6.0<
264D Pul I man	648289	APP WA	_C_	196.5 16.5	19.2 BNPFT20030317MRJ	46 41 46.9 117 14 44.0	0.034	13.8 907	9.8 Edgewater Broadcasting, In	-5.6<	-6.4<
266C Cheney	KEYF-FM	LIC WA	_C_	353.6 173.5	81.8 BMLH19990219KD	47 35 35.0 117 17 46.0	100.000 490	12.0 1196	82.5 Mapleton License Of Spokan	59.3	-0.9*<
260C Spokane	KXLY-FM	CP WA	NCX	10.1 190.2	90.1 BPH20080725ABE	47 39 34.0 116 57 48.0	90.000 643	10.8 1455	76.1 Queenb Radi o, Inc.	68.9	13.7
262D Lewi ston	645780	APP ID	_C_	172.7 352.8	45.3 BNPFT20030317ERI	46 27 27.4 117 05 56.4	0.010	9.0 961	6.4 Edgewater Broadcasting, In	25.8	24.0
260C Spokane	KXLY-FM	LIC WA	_C_	2.2 182.2	117.9 BMLH19971023KH	47 55 18.0 117 06 48.0	37.000 914	11.1 1813	92.1 Queenb Radi o, Inc.	96.5	25.6
265D Lewi ston TRANSLATOR FOR KMBI -FM, SPOKANE, WA.	K265AP	LIC ID	_CN	164.8 344.9	46.1 BLFT19811116IB	46 27 42.0 117 00 58.0	0.108 229	0.7 832	5.7 Alacca Bi ble Conference	34.8	40.1
262C Moses Lake Accepted 30 August 2000 by Canada on Channel 262 as a Class C allotment.	AL4579	RSV WA	_N	292.9 111.3	185.8 RM9269	47 29 20.0 119 26 45.0	100.000 600	138.9 1130	93.7	35.4	75.4
260D Clarkston	K260AN	LIC WA	_V_	164.1 344.2	46.3 BLFT20061023ACS	46 27 42.0 117 00 29.0	0.009	0.2 772	3.1 Calvary Chapel Of Twin Fal	35.5	43.0
264C2 Athena	KHSS	LIC OR	_CX	218.7 38.0	123.8 BLH20091029AAL	45 59 23.0 118 10 31.0	6.300 403	73.0 1168	49.1 Two Hearts Communications,	39.7	58.9
264D Cheney	640143	APP WA	_C_	324.2 143.7	78.7 BNPFT20030317EAY	47 26 01.0 117 47 08.0	0.250	12.7 730	9.1 Educational Media Foundati	54.8	53.7

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone = 2, Co to 3rd adjacent.
 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.