

Exhibit 18
KJEM Minor Modification
Contour Overlap Requirements
Washington State University

Service and interference contours for the proposed KJEM facility were calculated using data from the FCC's Consolidated Database System ("CDBS") and terrain data from the USGS 3 second terrain database. As shown in Table 18-1 below, the facilities proposed by the applicant create prohibited overlap with 2 other FM facilities, KRFP (channel 212, 2nd adjacent) and KUOI (channel 207, 3rd adjacent). A detailed analysis of these prohibited overlaps together with a request for waiver of the Commission's rules is contained in Exhibit 17.

Contour separation to co-channel KYMS (210C1), Rathdrum, 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) with respect to KQZB, Troy, ID. The proposed KJEM facility has a reference distance of 28 km, which classifies it as an A facility.

With the exceptions noted in the first paragraph above, the applicant believes that the proposed facilities meet 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

KJEM Minor Modification Washington State University											
REFERENCE 46 41 47.0 N. 117 14 44.0 W.		CH# 210A - 89.9 MHz, Pwr= 2.3 kW DA, HAAT= 164.0 M, COR= 901 M Average Protected F(50-50)= 28.34 km Standard Directional							DISPLAY DATES DATA 08-21-13 SEARCH 08-21-13		
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*	
210A KJEM Pullman		CP DCX WA	120.1 300.2	13.79 BMPED20121207AAE	46 38 03.4 117 05 22.1	0.300 246	66.7 1064	22.1 Washington State Universit	-66.2*	-55.3*	
210A KJEM Pullman		APP DCX WA	0.0 0.0	0.00 BMPED20130705AAD	46 41 47.0 117 14 44.0	2.500 164	44.6 901	13.4 Washington State Universit	-58.0*	-57.7*	
212C3 KRFP Moscow		CP DCX ID	94.4 274.6	21.12 BMPED20110621ACO	46 40 54.0 116 58 13.0	1.100 302	1.7 1146	31.2 Radio Free Moscow, Inc.	-3.9*	-12.2*	
207A KUOI-FM Moscow		LIC _VN ID	78.8 259.0	18.65 BLED19950227KB	46 43 43.0 117 00 22.0	0.400 -35	1.4 817	8.0 University of Idaho	-4.4*	8.6	
210C1 KYMS Rathdrum		LIC DVX ID	18.3 198.8	163.92 BLED20080319ABI	48 05 38.0 116 33 12.0	11.000 595	146.7 1389	64.7 Legacy Broadcasting, Inc.	0.4	46.1	
209A KAUC West Clarkston		LIC _CX WA	147.6 327.8	33.90 BLED20100625ALC	46 26 20.0 117 00 31.0	0.500 -185	12.0 374	8.5 Upper Columbia Media Corpo	7.0	3.4	
213A KNWV Clarkston		LIC _CX WA	157.2 337.4	28.83 BLED20090312ABV	46 27 26.0 117 06 00.0	0.420 322	1.4 908	10.5 Washington State Universit	13.3	11.9	
213A KNWV Clarkston		CP DCX WA	157.2 337.4	28.83 BPED20100910ADU	46 27 26.0 117 06 00.0	0.420 322	0.3 908	4.4 Washington State Universit	14.5	17.0	
263C3 KQZB« Troy		LIC NCX ID	62.8 243.0	28.22 BLH20080522ABE	46 48 42.0 116 54 59.0	0.900 487	0.0 1389	0.0 Pacific Empire Radio Corp	11.5R	16.7M	
211C2 KNWO Cottonwood		CP _CX ID	139.1 319.6	92.01 BPED20100804AAZ	46 04 09.0 116 27 54.0	0.550 616	54.2 1759	33.9 Washington State Universit	21.0	34.4	
209C2 KWS Walla Walla		LIC _CN WA	222.2 41.5	106.37 BLED19970609KE	45 59 04.0 118 10 08.0	3.200 410	64.8 1206	41.3 Washington State Universit	26.3	36.1	
209C1 KWS Walla Walla		CP DCX WA	222.2 41.5	106.37 BPED20121102ADR	45 59 04.6 118 10 09.1	10.300 418	64.2 1201	40.0 Washington State Universit	26.9	33.8	
207A KJCF Asotin		LIC _CX WA	159.0 339.1	43.36 BLED20090121ADR	46 19 56.0 117 02 34.0	0.175 -100	0.9 426	6.5 Calvary Chapel of Twin Fal	28.4	31.0	
211C3 KNWO Cottonwood		LIC _CN ID	139.1 319.6	92.01 BLED19940207KA	46 04 09.0 116 27 54.0	0.250 612	44.9 1759	27.9 Washington State Universit	30.3	40.6	
208C1 KEWU-FM Cheney		LIC _CN WA	357.7 177.7	98.15 BLED19861117KA	47 34 43.0 117 17 50.0	10.000 429	5.5 1148	57.1 Eastern Washington Univers	77.6	40.0	
210L1 KVFS-LP Spokane		LIC _ WA	351.1 171.0	94.13 BLL20061219ACL	47 31 58.0 117 26 20.0	0.100 30	18.6 739	5.6 Voices For Opportunity D/b	61.2	44.9	
211C1 KOLU Pasco		CP _CX WA	245.8 64.4	162.31 BPED20111129CLD	46 04 59.0 119 09 38.0	39.000 305	99.3 648	67.9 Riverview Baptist Christia	46.1	68.6	
213D K213BN Orofino		LIC DC_ ID	104.5 285.2	81.55 BLFT20081008AAH	46 30 33.0 116 12 59.0	0.050 233	0.1 969	4.3 Alacca Bible Conference, I	58.5	71.2	

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:

