

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

Coos Bay, OR

Channel Study

REFERENCE 43 21 16.0 N. 124 14 30.0 W.		CH# 219D - 91.7 MHz, Pwr= 0.062 kW, HAAT= 147.5 M, COR= 208 M Average Protected F(50-50)= 11.1 km Omni-directional								DISPLAY DATES DATA 04-06-16 SEARCH 04-06-16	
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*
219D Coos Bay	K219CK!	LIC	VN OR	44.1 224.2	16.94 BLFT19951024TD	43 27 49.0 124 05 44.0	0.023 254	43.9 397	13.1 Educational Media Foundati	-37.2	-30.8
217C3 Coos Bay	KMHS-FM	LIC	HX OR	63.2 243.2	3.50 BLED20080605AAW	43 22 07.0 124 12 11.0	10.000 -10	1.8 61	18.1 Coos Bay School District N	-5.9*	-15.2*
220C3 Port Orford	KDPO	LIC	CX OR	197.2 17.1	56.94 BLED20101209AEI	42 51 53.0 124 26 54.0	2.000 244	51.8 414	34.6 Ucb Usa, Inc.	-5.1	8.0
220D Gold Beach	K220AJ	LIC	?EN OR	173.2 353.3	73.49 BLFT19820930IB	42 41 51.0 124 08 06.0	0.207 679	51.9 1245	33.7 Southern Oregon University	11.0	25.0
221A Reedsport	KSYD	CP	NCX OR	7.6 187.6	33.93 BMPED20160202ABI	43 39 26.0 124 11 10.0	0.650 94	1.6 164	17.5 Lane County School Distric	19.9	15.9
221A Reedsport	KSYD	LIC	NC OR	7.6 187.6	33.93 BLH20001018ABG	43 39 26.0 124 11 10.0	0.300 109	1.2 179	15.1 Lane County School Distric	20.3	18.3
218A Roseburg	KSRS	LIC	CN OR	102.8 283.4	73.17 BLED19910103KA	43 12 22.0 123 21 48.0	2.000 93	35.8 358	23.8 Southern Oregon University	28.1	36.4
218A Florence	KWVZ	LIC	CX OR	11.3 191.4	68.32 BLED20070613ACW	43 57 26.0 124 04 26.0	0.150 167	26.0 251	17.4 University Of Oregon	29.9	32.5
220C2 Eugene	KRVM-FM	LIC	NEX OR	51.2 232.0	116.01 BLED20090805ABW	44 00 07.0 123 06 47.0	15.000 276	75.8 475	51.5 Lane County School Distric	29.9	50.1
219C2 Medford	KDOV	LIC	CN OR	134.6 315.6	166.29 BLED19950811KB	42 17 44.0 122 48 15.0	26.000 -111	126.8 588	49.6 Ucb Usa, Inc.	30.1	85.3
220D Riddle, Etc.	K220AC	LIC	DHN OR	122.6 303.3	92.66 BLFT19810602IF	42 54 06.0 123 17 07.0	0.140 507	42.5 1042	27.3 Southern Oregon University	42.7	54.6
217D Langlois	K217AF	LIC	DHN OR	197.3 17.1	57.22 BLFT19840921OK	42 51 45.0 124 27 00.0	0.087 241	0.5 398	13.1 Southern Oregon University	46.5	43.6
222C3 Canyonville	KWRZ	LIC	NCX OR	118.2 298.9	81.77 BLED20140411AKP	43 00 13.0 123 21 27.0	0.850 439	1.9 840	37.3 University Of Oregon	71.9	43.9
216C1 Eugene	KWAX	LIC	EN OR	51.2 232.0	115.98 BLED19930308KB	44 00 04.0 123 06 45.0	21.500 370	6.8 562	60.7 University Of Oregon	98.9	54.7
220D Roseburg	K220DQ	LIC	DHN OR	102.7 283.3	73.18 BLFT19940216TC	43 12 24.0 123 21 47.0	0.050 100	5.9 365	4.0 Southern Oregon University	58.0	56.2
219A Siletz	KYAQ	LIC	CX OR	7.2 187.3	144.49 BLED20140106AAA	44 38 40.0 124 00 50.0	0.690 147	64.9 213	21.2 Firebare, Inc.	67.1	82.1
06 D Eugene	1328857	CP	D N OR	51.2 231.9	115.90 BNPDVL20090825ASQ	44 00 06.6 123 06 52.7	0.300 320	1.7 445	3.9	5.6R	110.4M

Terrain database is FCC NGDC 30 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= West Zone, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni),
Polarization (C,H,V,E), Beamtlt(Y,N,X)
""affixed to 'IN' or 'OUT' values = site inside restricted contour.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KMHS-FM, channel 217C3, Coos Bay, OR. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K219CK.P:	62 watts
The proposed COR for K219CK.P:	27 meters
KMHS-FM F(50/50) contour at proposed site:	88.1 dBu
The F(50/10) contour of proposed K219CK.P	128.1 dBu
The predicted distance to K219CK.P interference contour:	21.7 meters

The signal is predicted to not reach the ground. As can be seen in Exhibit 13-B, there are no regularly occupied structures at the base of the tower and there are no structures which could be tall enough to enter the 21.7 meter aperture.

Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

Cavell, Mertz & Associates

Exhibit 13-B

43 21 15 N, 124 14 34 W

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Google earth

Google earth

feet
meters



Exhibit 13-C

FMCommander Single Allocation Study - 04-07-2016 - FCC NGDC 30 Sec
K219CK.P's Overlaps (In= -5.15 km, Out= 7.97 km)

K219CK.P CH 219 D
Lat= 43 21 16.0, Lng= 124 14 30.0
0.062 kW 147.5 m HAAT, 208 m COR
Prot.= 60 dBu, Intef.= 54 dBu

KDPO CH 220 C3 BLED20101209AEI
Lat= 42 51 53.0, Lng= 124 26 54.0
2.0 kW 244 m HAAT, 414 m COR
Prot.= 60 dBu, Intef.= 54 dBu

