

Educational Media Foundation

Exhibit 18

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Tillamook, OR

Channel Study

REFERENCE		CH# 212A - 90.3 MHz, Pwr= 0.032kW, HAAT= 372.9 M, COR= 446 M								DISPLAY DATES	
45 27 59.0 N.		Average Protected F(50-50)= 15.0 km								DATA 04-10-19	
123 55 11.0 W.		Omni-directional								SEARCH 04-10-19	

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)

212A	KLON	LIC	VX	358.5	15.41	45 36 18.0	1.800	73.7	24.3	-73.1	-58.6*
Rockaway Beach			OR	178.5	BLED20051011ACV	123 55 30.0	104	218	Educational Media Foundati		

212A	KSLC	LIC	DCX	124.6	60.16	45 09 28.0	0.750	32.3	9.5	12.8	0.1
Mcminnville			OR	305.1	BLED20110107ADP	123 17 22.0	102	236	Linfield College		

213C3	KLCO	LIC	C	187.3	79.50	44 45 24.0	3.000	58.1	39.0	8.3	21.0
Newport			OR	7.2	BLED20000329ABI	124 02 50.0	256	338	Lane Community College		

212A	KLWO	LIC	VX	46.5	113.39	46 09 47.0	0.400	79.1	27.3	21.2	42.1
Longview			WA	227.2	BLED20070925AGO	122 51 14.0	272	451	Educational Media Foundati		

214C1	KBOO	LIC	CY	88.1	95.83	45 29 20.0	26.500	7.7	66.3	73.3	29.2
Portland			OR	268.9	BLED19910909KC	122 41 40.0	386	480	The Kboo Foundation		

210C1	KQAC	LIC	CY	86.2	92.92	45 30 58.0	5.900	4.6	54.6	73.6	37.9
Portland			OR	267.0	BLED20110517AEK	122 43 59.0	440	529	All Classical Public Media		

213A	KGIO	LIC	C	1.1	91.19	46 17 12.0	0.220	38.9	25.3	38.1	44.7
Astoria			OR	181.2	BLED20170911AAA	123 53 46.0	381	433	Centro Familiar Cristiano		

212A	KWBX	LIC	VX	130.4	99.54	44 52 57.0	0.135	25.4	7.6	59.1	41.3
Salem			OR	311.1	BLED20020326AAB	122 57 34.0	14	127	Corban University		

215A	KCPB-FM	LIC	DCX	1.7	88.55	46 15 46.0	0.240	1.1	24.7	73.3	63.4
Warrenton			OR	181.7	BLED20100715AAE	123 53 09.0	341	385	Tillicum Foundation		

266C	KXL-FM«	LIC	C	86.2	92.92	45 30 58.0	100.000	75.4	39.1	29.0R	63.9M
Portland			OR	267.0	BLH20100503ACD	122 43 59.0	502	594	Alpha Media Licensee Llc		

211A	KAJC	LIC	DCX	145.1	95.69	44 45 33.0	0.560	12.7	9.0	68.0	64.2
Salem			OR	325.6	BLED20050124AHZ	123 13 34.0	39	150	Calvary Chapel Monmouth-in		

212C3	KXPC	LIC	CX	94.1	173.45	45 20 01.0	0.235	93.8	32.9	65.6	93.6
Welches			OR	275.7	BLED20111005AIP	121 42 45.0	531	1877	Educational Media Foundati		

209A	KOAC-FM	LIC	CX	1.7	88.55	46 15 46.0	0.180	0.9	22.6	73.4	65.6
Astoria			OR	181.7	BLED20100927ABF	123 53 09.0	321	367	Oregon Public Broadcasting		

06 --	K06QR-D«										
CP D N	158.4	174.79		44 00 06.6	0.300	8.7	21.2	29.9R	144.9M		
Eugene			OR	339.0	BNPDVL-20090825ASQ						
123 06 52.7	-999	444									

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= - 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 restricted contour.

« = Station meets FCC minimum distance spacing for its class.

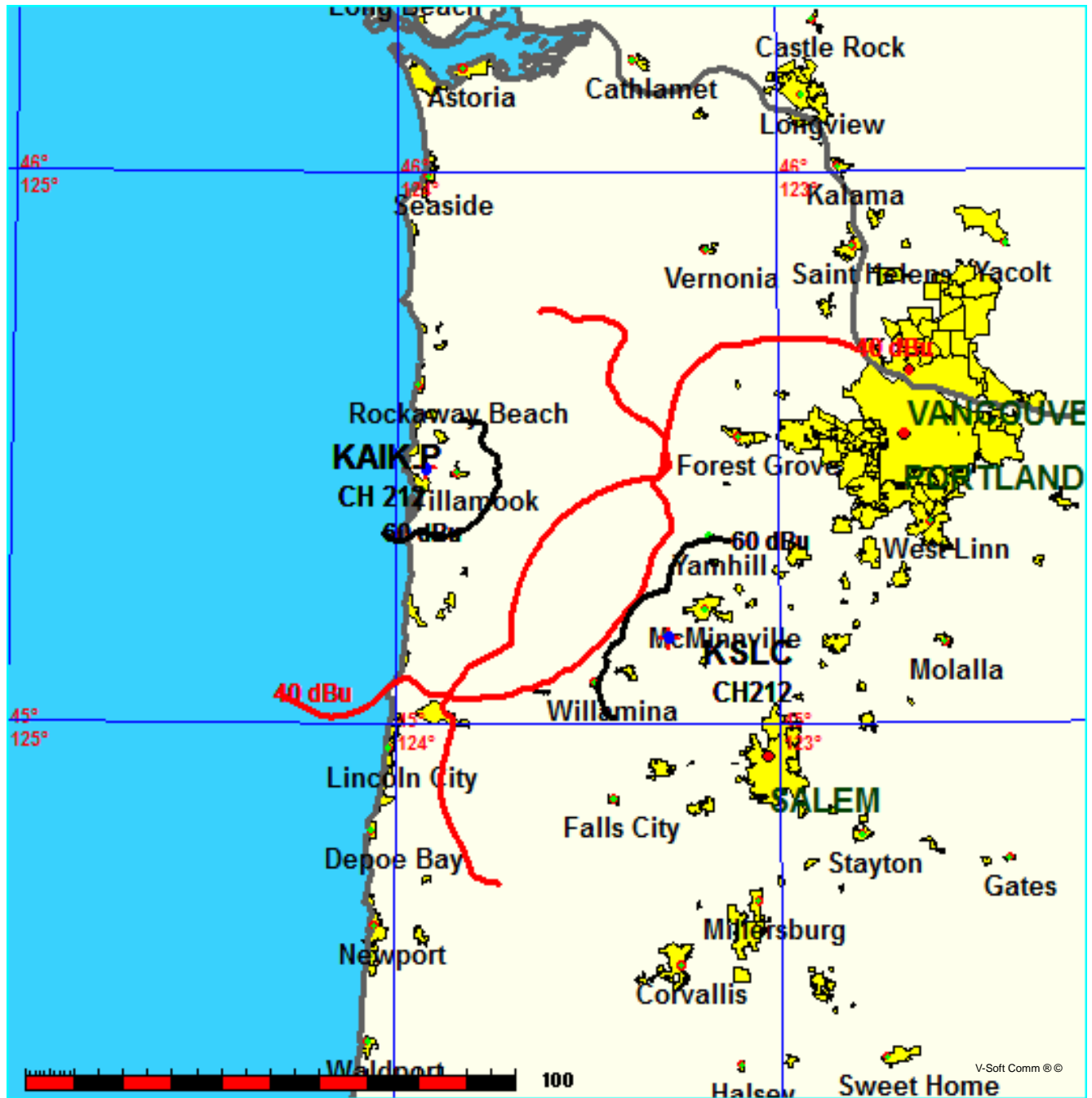
Reference station has protected zone issue: Canada

*Note: The facility contemplated herein is being filed contingently with an application for KLON, Rockaway Beach, OR according to the guidelines of 47 C.F.R. 73.3517(e). The proposed KLON facility changes from channel 212 to channel 203 and will have no relationship to the proposed KAIK facility.

FMCommander Single Allocation Study - 04-11-2019 - FCC NGDC 30 Sec
KAIK.P's Overlaps (In= 13.07 km, Out= 0.8 km)

KAIK.P CH 212 A
Lat= 45 27 59.0, Lng= 123 55 11.0
0.03 kW 372.9 m HAAT, 446 m COR
Prot.= 60 dBu, Intef.= 40 dBu

KSLC CH 212 A DA BLED20110107ADP
Lat= 45 09 28.0, Lng= 123 17 22.0
0.75 kW 102 m HAAT, 236 m COR
Prot.= 60 dBu, Intef.= 40 dBu



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KAIK.P vs. KSLC

04-12-2019 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

KSLC BLED20110107ADP

KAIK.P

Channel = 212A
Max ERP = 0.75 kW
RCAMSL = 236 m
N. Lat. 45 09 28.0
W. Lng. 123 17 22.0
Protected
60 dBu

Channel = 212A
Max ERP = 0.03 kW
RCAMSL = 446 m
N. Lat. 45 27 59.0
W. Lng. 123 55 11.0
Interfering
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)	I X (km)
245.0	000.5387	0084.0	014.2	137.8	000.0300	0376.8	054.4	38.33	
246.0	000.5635	0079.2	014.0	137.4	000.0300	0376.9	054.3	38.39	
247.0	000.5889	0075.0	013.8	137.1	000.0300	0377.1	054.1	38.45	
248.0	000.6148	0071.0	013.6	136.8	000.0300	0377.2	054.0	38.52	
249.0	000.6413	0067.4	013.4	136.6	000.0300	0377.4	053.8	38.58	
250.0	000.6684	0065.4	013.3	136.4	000.0300	0377.4	053.6	38.65	
251.0	000.6763	0066.1	013.4	136.4	000.0300	0377.4	053.3	38.75	
252.0	000.6843	0067.5	013.6	136.5	000.0300	0377.4	053.1	38.86	
253.0	000.6924	0067.6	013.7	136.4	000.0300	0377.5	052.8	38.95	
254.0	000.7004	0065.9	013.5	136.2	000.0300	0377.6	052.7	39.01	
255.0	000.7086	0063.0	013.3	135.8	000.0300	0377.9	052.6	39.06	
256.0	000.7168	0060.0	013.1	135.5	000.0300	0378.1	052.5	39.10	
257.0	000.7250	0056.2	012.7	135.0	000.0300	0378.5	052.5	39.11	
258.0	000.7333	0053.4	012.5	134.6	000.0300	0378.8	052.4	39.13	
259.0	000.7416	0051.0	012.2	134.3	000.0300	0378.9	052.4	39.15	
260.0	000.7500	0049.8	012.1	134.1	000.0300	0379.0	052.3	39.20	
261.0	000.7500	0048.6	011.9	133.8	000.0300	0379.1	052.2	39.23	
262.0	000.7500	0045.3	011.5	133.3	000.0300	0379.0	052.3	39.19	
263.0	000.7500	0041.8	011.1	132.8	000.0300	0378.8	052.4	39.13	
264.0	000.7500	0038.7	010.6	132.3	000.0300	0378.5	052.6	39.08	
265.0	000.7500	0035.5	010.2	131.8	000.0300	0377.8	052.7	39.00	
266.0	000.7500	0034.4	010.1	131.5	000.0300	0377.3	052.7	38.99	
267.0	000.7500	0032.1	009.7	131.2	000.0300	0376.5	052.8	38.93	
268.0	000.7500	0026.6	009.5	130.8	000.0300	0375.8	052.9	38.88	
269.0	000.7500	0021.2	009.5	130.7	000.0300	0375.5	052.8	38.91	
270.0	000.7500	0015.7	009.5	130.6	000.0300	0375.3	052.7	38.95	
271.0	000.7500	0015.7	009.5	130.4	000.0300	0375.0	052.6	38.98	
272.0	000.7500	0017.7	009.5	130.3	000.0300	0374.8	052.5	39.01	
273.0	000.7500	0019.6	009.5	130.1	000.0300	0374.7	052.4	39.05	
274.0	000.7500	0019.9	009.5	130.0	000.0300	0374.6	052.3	39.08	
275.0	000.7500	0013.5	009.5	129.8	000.0300	0374.5	052.2	39.12	
276.0	000.7500	0010.6	009.5	129.7	000.0300	0374.5	052.1	39.15	
277.0	000.7500	0010.1	009.5	129.5	000.0300	0374.5	052.0	39.19	
278.0	000.7500	0010.9	009.5	129.4	000.0300	0374.5	051.9	39.22	
279.0	000.7500	0012.0	009.5	129.2	000.0300	0374.6	051.8	39.25	
280.0	000.7500	0011.4	009.5	129.1	000.0300	0374.7	051.7	39.29	
281.0	000.7500	0011.9	009.5	128.9	000.0300	0374.8	051.6	39.32	
282.0	000.7500	0011.4	009.5	128.8	000.0300	0374.9	051.6	39.35	
283.0	000.7500	0010.9	009.5	128.6	000.0300	0375.0	051.5	39.38	
284.0	000.7500	0010.2	009.5	128.4	000.0300	0375.1	051.4	39.41	
285.0	000.7500	0008.1	009.5	128.3	000.0300	0375.2	051.4	39.44	
286.0	000.7500	0006.6	009.5	128.1	000.0300	0375.3	051.3	39.47	
287.0	000.7500	0005.5	009.5	127.9	000.0300	0375.3	051.2	39.49	

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288.0	000.7500	0005.8	009.5	127.7	000.0300	0375.3	051.2	39.52
289.0	000.7500	0006.6	009.5	127.6	000.0300	0375.3	051.1	39.54
290.0	000.7500	0004.9	009.5	127.4	000.0300	0375.2	051.1	39.55
291.0	000.7500	0000.7	009.5	127.2	000.0300	0375.1	051.0	39.57
292.0	000.7500	-0003.6	009.5	127.0	000.0300	0375.0	051.0	39.58
293.0	000.7500	-0007.3	009.5	126.9	000.0300	0374.8	050.9	39.59
294.0	000.7500	-0011.7	009.5	126.7	000.0300	0374.6	050.9	39.60
295.0	000.7500	-0018.2	009.5	126.5	000.0300	0374.5	050.9	39.61
296.0	000.7500	-0027.7	009.5	126.3	000.0300	0374.4	050.8	39.62
297.0	000.7500	-0039.1	009.5	126.1	000.0300	0374.3	050.8	39.63
298.0	000.7500	-0051.4	009.5	125.9	000.0300	0374.3	050.8	39.64
299.0	000.7500	-0064.7	009.5	125.8	000.0300	0374.3	050.7	39.65
300.0	000.7500	-0077.7	009.5	125.6	000.0300	0374.4	050.7	39.66
301.0	000.7500	-0089.1	009.5	125.4	000.0300	0374.5	050.7	39.67
302.0	000.7500	-0097.4	009.5	125.2	000.0300	0374.7	050.7	39.68
303.0	000.7500	-0100.7	009.5	125.0	000.0300	0374.9	050.7	39.68
304.0	000.7500	-0099.0	009.5	124.8	000.0300	0375.1	050.7	39.69
305.0	000.7500	-0093.5	009.5	124.6	000.0300	0375.4	050.7	39.70
306.0	000.7500	-0088.0	009.5	124.5	000.0300	0375.7	050.7	39.71
307.0	000.7500	-0084.5	009.5	124.3	000.0300	0376.0	050.7	39.72
308.0	000.7500	-0083.4	009.5	124.1	000.0300	0376.3	050.7	39.72
309.0	000.7500	-0083.9	009.5	123.9	000.0300	0376.7	050.7	39.73
310.0	000.7500	-0085.4	009.5	123.7	000.0300	0377.0	050.7	39.73
311.0	000.7500	-0087.0	009.5	123.5	000.0300	0377.4	050.8	39.73
312.0	000.7500	-0087.2	009.5	123.3	000.0300	0377.7	050.8	39.73
313.0	000.7500	-0085.8	009.5	123.2	000.0300	0378.0	050.8	39.73
314.0	000.7500	-0084.6	009.5	123.0	000.0300	0378.2	050.8	39.73
315.0	000.7500	-0084.9	009.5	122.8	000.0300	0378.5	050.9	39.72
316.0	000.7500	-0086.9	009.5	122.6	000.0300	0378.7	050.9	39.72
317.0	000.7500	-0090.7	009.5	122.4	000.0300	0379.0	050.9	39.71
318.0	000.7500	-0096.0	009.5	122.2	000.0300	0379.2	051.0	39.70
319.0	000.7500	-0102.6	009.5	122.1	000.0300	0379.4	051.0	39.69
320.0	000.7500	-0111.0	009.5	121.9	000.0300	0379.6	051.1	39.67
321.0	000.7500	-0121.9	009.5	121.7	000.0300	0379.9	051.1	39.66
322.0	000.7500	-0134.4	009.5	121.5	000.0300	0380.1	051.2	39.65
323.0	000.7500	-0146.5	009.5	121.4	000.0300	0380.3	051.2	39.63
324.0	000.7500	-0156.2	009.5	121.2	000.0300	0380.5	051.3	39.61
325.0	000.7500	-0161.0	009.5	121.0	000.0300	0380.7	051.4	39.59
326.0	000.7500	-0162.1	009.5	120.9	000.0300	0380.8	051.4	39.57
327.0	000.7500	-0163.0	009.5	120.7	000.0300	0380.9	051.5	39.55
328.0	000.7500	-0164.7	009.5	120.5	000.0300	0381.0	051.6	39.52
329.0	000.7500	-0165.4	009.5	120.4	000.0300	0381.1	051.7	39.49
330.0	000.7500	-0164.2	009.5	120.2	000.0300	0381.2	051.7	39.47
331.0	000.7500	-0161.8	009.5	120.0	000.0300	0381.3	051.8	39.44
332.0	000.7500	-0157.4	009.5	119.9	000.0300	0381.3	051.9	39.40
333.0	000.7500	-0147.9	009.5	119.7	000.0300	0381.3	052.0	39.37
334.0	000.7500	-0132.0	009.5	119.6	000.0300	0381.3	052.1	39.34
335.0	000.7500	-0112.2	009.5	119.4	000.0300	0381.2	052.2	39.30
336.0	000.7500	-0091.3	009.5	119.3	000.0300	0381.1	052.3	39.26
337.0	000.7500	-0071.9	009.5	119.1	000.0300	0381.0	052.4	39.22
338.0	000.7500	-0057.4	009.5	119.0	000.0300	0380.9	052.5	39.17
339.0	000.7500	-0047.8	009.5	118.9	000.0300	0380.6	052.6	39.13
340.0	000.7500	-0040.0	009.5	118.7	000.0300	0380.4	052.7	39.08
341.0	000.7500	-0031.8	009.5	118.6	000.0300	0380.1	052.8	39.03
342.0	000.7500	-0026.0	009.5	118.4	000.0300	0379.8	052.9	38.98
343.0	000.7500	-0020.7	009.5	118.3	000.0300	0379.5	053.0	38.93
344.0	000.7500	-0016.2	009.5	118.2	000.0300	0379.2	053.1	38.88
345.0	000.7500	-0015.0	009.5	118.1	000.0300	0378.9	053.3	38.82
346.0	000.7500	-0016.1	009.5	117.9	000.0300	0378.6	053.4	38.77
347.0	000.7500	-0016.0	009.5	117.8	000.0300	0378.4	053.5	38.72
348.0	000.7500	-0014.7	009.5	117.7	000.0300	0378.1	053.6	38.66
349.0	000.7500	-0012.8	009.5	117.6	000.0300	0377.8	053.8	38.60
350.0	000.7500	-0011.0	009.5	117.5	000.0300	0377.6	053.9	38.55

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351.0	000.7500	-0011.0	009.5	117.4	000.0300	0377.3	054.0	38.49
352.0	000.7500	-0008.6	009.5	117.3	000.0300	0377.1	054.2	38.43
353.0	000.7500	-0001.6	009.5	117.2	000.0300	0376.9	054.3	38.38
354.0	000.7500	0008.4	009.5	117.1	000.0300	0376.6	054.4	38.32
355.0	000.7500	0017.7	009.5	117.0	000.0300	0376.4	054.6	38.26
356.0	000.7500	0024.7	009.5	116.9	000.0300	0376.2	054.7	38.20
357.0	000.7500	0030.6	009.5	116.7	000.0300	0375.8	054.8	38.15
358.0	000.7500	0035.5	010.2	116.0	000.0300	0374.1	054.6	38.17
359.0	000.7500	0041.1	011.0	115.2	000.0300	0373.0	054.4	38.21
000.0	000.7500	0050.3	012.1	114.0	000.0300	0372.2	054.1	38.31
001.0	000.7500	0059.8	013.2	112.9	000.0300	0370.6	053.9	38.34
002.0	000.7500	0069.3	014.1	111.9	000.0300	0368.4	053.8	38.32
003.0	000.7500	0075.9	014.7	111.2	000.0300	0366.4	053.8	38.25
004.0	000.7500	0080.7	015.2	110.6	000.0300	0365.5	053.9	38.18
