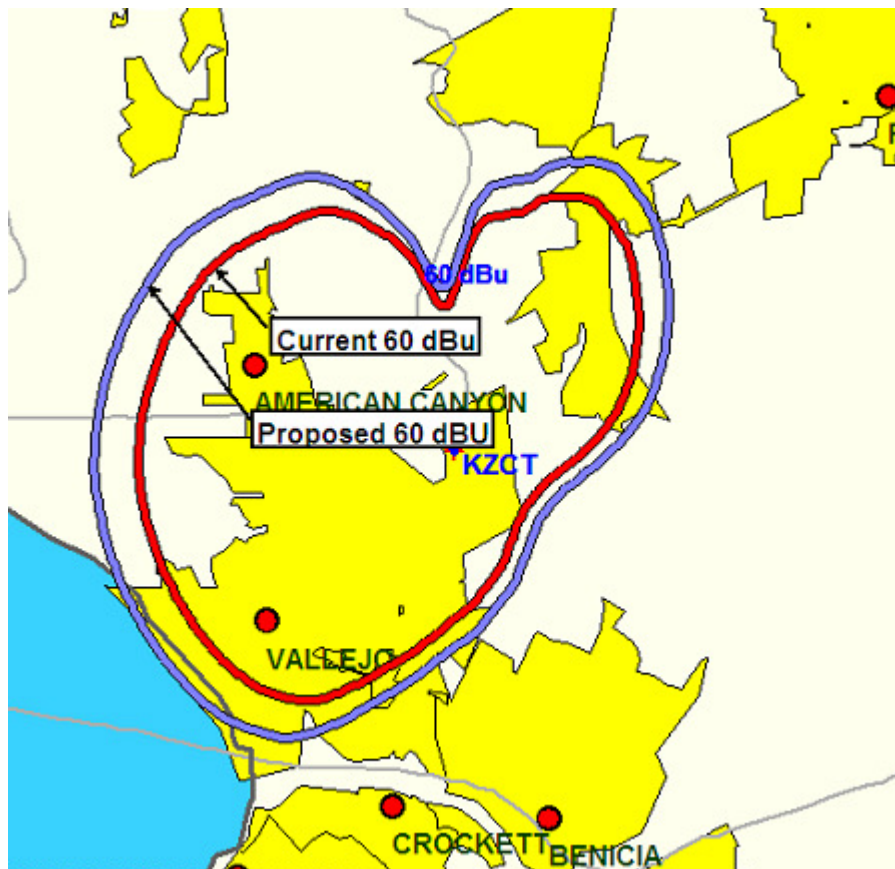


PROPOSED MINOR MODIFICATION OF FACILITY KXRY

Proposed is a minor modification to change KZCT's power from 7 to 11.5 watts.

COOR:	38 09 06.0 N 122 11 25.0 (NAD 27)
GROUND	339 m
TOWER	7
ASR	NA
AGL	4 m
COR	343
HAAT	264 m
WATTS	11.5
CHANNEL	208



Proposed 60 dBu

Channel study is included on next page.

Ozcat Entertainment											
REFERENCE		CH# 208A - 89.5 MHz, Pwr= 0.0115 kW DA, HAAT= 264.0 M, COR= 343 M DISPLAY DATES								DATA 12-22-13	
38 09 06.0 N.		Average Protected F(50-50)= 9.8 km								SEARCH 04-05-14	
122 11 25.0 W.		Standard Directional									
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*
208A Vallejo	KZCT	LIC	DV CA	0.0 0.0	0.00 BLED20110316ABV	38 09 06.0 122 11 25.0	0.007 264	15.5 343	4.9 Ozcat Entertainment	-21.0*	-22.9*
207A Pierce	DKYPI-FM	APP	DHX CA	126.9 307.0	9.91 BLED20110509ADR	38 05 53.0 122 05 59.0	0.100 -41	6.0 11	4.2 Centro De Intercesion Y Ad	0.5	0.3
262L1 Vallejo	1594396«	APP		185.1 5.1	7.35 BNPL20131114AZZ	38 05 08.4 122 11 52.0	0.100 4	47	Mira Theatre Guild	6.0R	1.4M
262L1 Vallejo	1584301«	APP		180.9 0.9	7.58 BNPL20131114BHD	38 05 00.0 122 11 30.0	0.100 18	61	St. Vincent Ferrer Parish	6.0R	1.6M
208A San Francisco	KPOO	LIC	DHN CA	206.3 26.1	44.50 BLED19800304AC	37 47 33.0 122 24 52.0	0.270 165	25.5 188	7.5 Poor People's Radio, Inc.	9.2	4.6
209B Lodi	KCAI	LIC	DCX CA	77.2 257.6	61.33 BLED20081103AAE	38 16 18.0 121 30 18.0	2.500 487	50.0 489	32.1 Educational Media Foundati	5.3	20.0
208A Moraga	KSMC	LIC	DHN CA	168.5 348.5	35.32 BLED19840702CA	37 50 25.0 122 06 36.0	0.800 24	24.3 205	7.2 Associated Students Of St.	5.8	9.1
207A Berkeley	KPFB	LIC	DHN CA	192.9 12.9	31.87 BLED19910909KB	37 52 20.0 122 16 18.0	0.460 -30	11.3 72	8.0 Pacifica Foundation, Inc.	13.0	12.9
205B Sacramento	KXPR	LIC	DCN CA	77.1 257.5	61.54 BLED19950926KB	38 16 25.0 121 30 11.0	50.000 150	5.3 152	48.3 California State Universit	50.2	13.2
210B Angwin	KDFC	LIC	CN CA	326.4 146.1	69.18 BLED19840711DA	38 40 09.0 122 37 53.0	0.800 925	2.0 1341	55.6 Classical Public Radio Net	57.5	13.3
208B1 Ukiah	KPRA	LIC	C CA	320.2 139.6	140.34 BLED19990803KD	39 07 01.0 123 13 54.0	1.600 346	116.9 780	45.9 Family Stations, Inc.	13.4	61.2
207D Concord	K207EP	LIC	DV CA	129.2 309.3	21.35 BLFT20091105ABZ	38 01 48.8 122 00 04.1	0.010 163	1.6 213	0.8 Your Christian Companion N	16.4	15.1
261L1 Concord	1581739«	APP		129.0 309.2	22.98 BNPL20131112AEJ	38 01 17.0 121 59 12.0	0.005 139	200	Concord Hispanic Community	6.0R	17.0M

206B KBBF	LIC	CX	326.7	67.21	38 39 23.0	0.420	1.4	48.3	56.0	18.7
Calistoga		CA	146.5	BLED20090224ABY	122 36 54.0	844	1241	Bilingual Broadcasting Fou		
205D K205BM	LIC	DV	207.6	49.67	37 45 19.0	0.050	0.5	14.4	39.3	35.0
San Rafael, Etc.		CA	27.4	BLFT20130611AAP	122 27 06.0	277	306	Educational Media Foundati		
208D K208CT	LIC	DVN	143.0	77.34	37 35 42.0	0.009	38.1	11.0	35.5	51.5
Livermore		CA	323.3	BLFT19971119TA	121 39 42.0	145	625	Educational Media Foundati		
211B KYCC	LIC	DCX	104.8	82.37	37 57 30.0	41.000	4.7	43.5	73.9	38.8
Stockton		CA	285.4	BLED20080930ATZ	121 16 55.0	107	116	Your Christian Companion N		
207A KQEI-FM	LIC	DCX	44.6	87.57	38 42 38.0	3.300	39.1	25.7	39.5	49.2
North Highlands		CA	225.0	BLED20110411AAI	121 28 54.0	108	122	Kqed Inc.		
208A KYNJ	APP	DVX	131.3	83.60	37 39 10.0	0.050	39.8	12.0	40.4	58.3
Tracy		CA	311.8	BNPED20071022AOK	121 28 38.0	94	354	Peace And Justice Network		
261D KZST-FM2«	LIC	DC	302.3	50.31	38 23 31.0	1.200	0.0	0.0	10.0R	40.3M
Rohnert Park Petalu		CA	122.0	BLFTB20000215ABN	122 40 40.0	171	321	Redwood Empire Stereocaste		
209B1 KFJC	LIC	C	177.3	92.50	37 19 14.0	0.110	45.5	29.2	41.1	54.5
Los Altos		CA	357.4	BMLED19961105KB	122 08 29.0	562	820	Foothill-de Anza Community		
210D K210EH	LIC	C	242.2	52.43	37 55 50.0	0.010	0.2	3.2	41.3	49.0
Bolinas		CA	61.9	BLFT20090219ABD	122 43 09.0	119	227	Kwmr Inc		
261A ALLO«	USE		305.2	51.79	38 25 07.0	6.000	0.0	0.0	10.0R	41.8M
Santa Rosa		CA	124.9		122 40 33.0	100	282			
261A KZST«	LIC	C	305.2	51.79	38 25 07.0	6.000	0.0	0.0	10.0R	41.8M
Santa Rosa		CA	124.9	BLH19991015ABU	122 40 33.0	75	255	Redwood Empire Stereocaste		
208B1 KVMR	LIC	C	40.8	161.69	39 14 47.0	1.750	108.1	41.9	44.3	88.8
Nevada City		CA	221.6	BLED20001020AAK	120 57 48.0	345	1205	Nevada City Community Broa		

<Page Break>

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr (kW)	INT (km)	PRO (km)	Page #	2
CITY		STATE		<--	FILE #	LNG.	HAAT (M)	COR (M)	LICENSEE	*IN*	*OUT*
(Overlap in km)											
205B	KXPR	CP	CX	65.5	97.52	38 30 42.0	40.000	5.6	50.2	84.9	47.2
Sacramento		CA		246.1	BMPED20121129AQU	121 10 14.0	124	183	California State	Universit	
207A	KARC	LIC	DCX	201.3	70.27	37 33 44.0	0.043	14.0	9.7	47.4	48.1
Moss Beach		CA		21.1	BLED20090707ACC	122 28 46.0	498	581	Educational Public Radio,		

Terrain database is 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 1A, Co to 3rd
adjacent.

All separation margins (if shown) include rounding

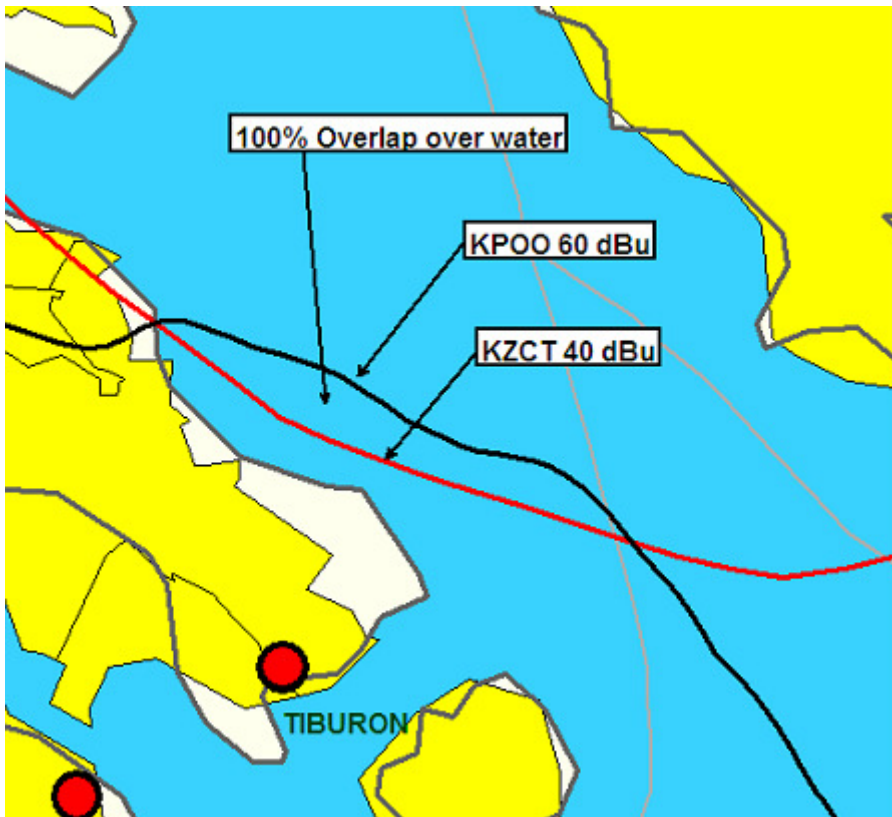
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),
Beamtilt(Y,N,X)

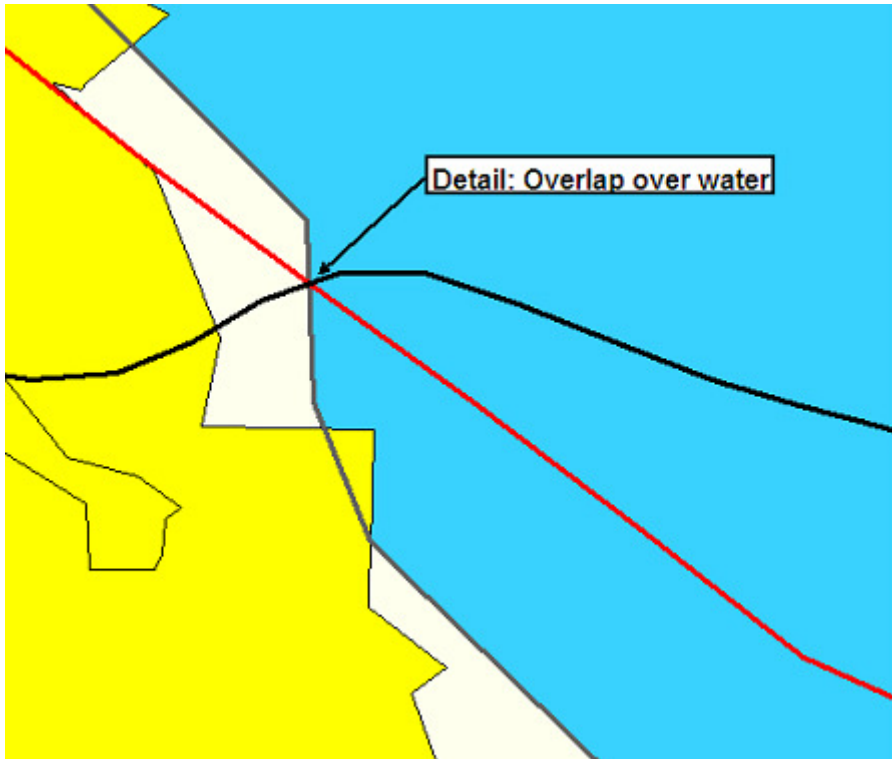
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.

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

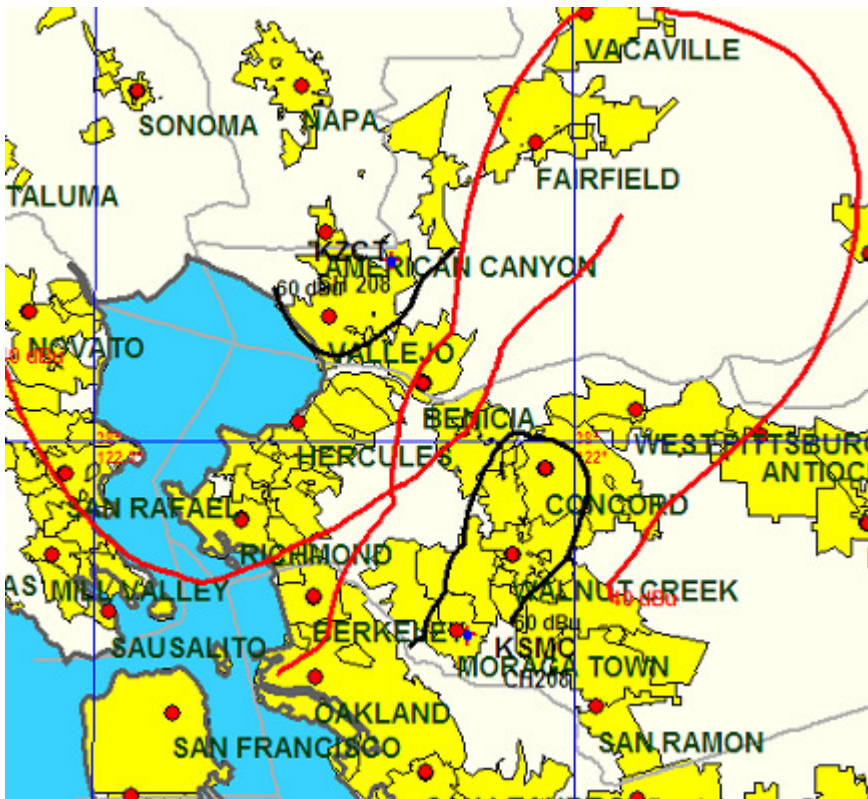
Close Contours

With Co-Channel KPOO





Co-Channel KSMC



KZCT

Channel = 208A
 Max ERP = 0.0115 kW
 RCAMSL = 343 M
 N. Lat. 38 09 06.0
 W. Lng. 122 11 25.0
 Protected
 60 dBu

KSMC BLED19840702CA

Channel = 208A
 Max ERP = 0.8 kW
 RCAMSL = 205 M
 N. Lat. 37 50 25.0
 W. Lng. 122 06 36.0
 Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
108.0	000.0005	0276.4	003.7	354.0	000.3897	0014.8	033.7	36.63	
109.0	000.0005	0274.3	003.6	353.9	000.3872	0013.5	033.6	36.62	
110.0	000.0004	0272.2	003.6	353.8	000.3846	0012.1	033.6	36.60	
111.0	000.0004	0270.2	003.6	353.7	000.3828	0011.2	033.5	36.60	
112.0	000.0004	0268.3	003.5	353.6	000.3810	0010.2	033.5	36.60	
113.0	000.0004	0266.6	003.5	353.5	000.3793	0009.2	033.5	36.59	
114.0	000.0004	0265.0	003.5	353.4	000.3775	0008.2	033.4	36.59	
115.0	000.0004	0263.4	003.5	353.3	000.3757	0007.2	033.4	36.59	
116.0	000.0004	0261.8	003.5	353.3	000.3739	0006.2	033.3	36.58	
117.0	000.0004	0260.4	003.4	353.2	000.3722	0005.2	033.3	36.57	
118.0	000.0004	0259.0	003.4	353.1	000.3704	0004.2	033.3	36.57	
119.0	000.0004	0257.6	003.4	353.0	000.3685	0003.2	033.2	36.56	
120.0	000.0004	0256.5	003.4	352.9	000.3667	0002.3	033.2	36.55	
121.0	000.0004	0255.7	003.4	352.9	000.3654	0001.5	033.1	36.56	
122.0	000.0004	0255.0	003.4	352.8	000.3640	0000.8	033.1	36.56	
123.0	000.0004	0254.3	003.4	352.7	000.3626	0000.1	033.0	36.56	
124.0	000.0004	0253.9	003.4	352.7	000.3611	-0000.6	033.0	36.56	
125.0	000.0004	0253.5	003.4	352.6	000.3597	-0001.2	033.0	36.55	
126.0	000.0004	0253.5	003.4	352.5	000.3582	-0001.8	032.9	36.55	
127.0	000.0004	0253.9	003.4	352.4	000.3567	-0002.3	032.9	36.55	
128.0	000.0004	0254.9	003.4	352.4	000.3553	-0002.8	032.8	36.55	
129.0	000.0004	0256.6	003.4	352.3	000.3538	-0003.2	032.8	36.55	
130.0	000.0004	0259.0	003.4	352.2	000.3524	-0003.7	032.7	36.55	
131.0	000.0004	0261.8	003.4	352.2	000.3513	-0004.0	032.7	36.56	
132.0	000.0004	0264.8	003.4	352.1	000.3502	-0004.3	032.6	36.57	
133.0	000.0004	0268.1	003.5	352.1	000.3491	-0004.6	032.6	36.57	
134.0	000.0004	0271.2	003.5	352.0	000.3479	-0004.9	032.5	36.58	
135.0	000.0004	0274.1	003.5	352.0	000.3467	-0005.3	032.5	36.59	
136.0	000.0004	0276.9	003.5	351.9	000.3455	-0005.6	032.4	36.59	
137.0	000.0004	0279.6	003.6	351.8	000.3442	-0006.0	032.3	36.60	
138.0	000.0004	0282.2	003.6	351.8	000.3428	-0006.4	032.3	36.60	
139.0	000.0004	0284.7	003.6	351.7	000.3414	-0006.8	032.2	36.61	

140.0	000.0004	0287.1	003.6		351.6	000.3400	-0007.2	032.2	36.61
141.0	000.0005	0289.2	003.7		351.6	000.3389	-0007.5	032.1	36.63
142.0	000.0005	0291.1	003.7		351.5	000.3378	-0007.8	032.0	36.64
143.0	000.0005	0292.8	003.8		351.5	000.3365	-0008.2	031.9	36.65
144.0	000.0005	0294.1	003.8		351.4	000.3352	-0008.5	031.9	36.67
145.0	000.0005	0295.0	003.9		351.3	000.3337	-0008.9	031.8	36.68
146.0	000.0005	0295.4	003.9		351.2	000.3322	-0009.3	031.7	36.68
147.0	000.0006	0295.4	004.0		351.2	000.3305	-0009.7	031.7	36.69
148.0	000.0006	0295.1	004.0		351.1	000.3288	-0010.0	031.6	36.69
149.0	000.0006	0295.0	004.0		351.0	000.3270	-0010.3	031.5	36.70
150.0	000.0006	0294.9	004.1		350.9	000.3252	-0010.6	031.5	36.70
151.0	000.0006	0295.0	004.2		350.8	000.3238	-0010.8	031.4	36.72
152.0	000.0007	0294.8	004.2		350.7	000.3222	-0011.1	031.3	36.74
153.0	000.0007	0294.4	004.3		350.7	000.3204	-0011.3	031.2	36.76
154.0	000.0007	0293.6	004.4		350.6	000.3185	-0011.5	031.1	36.77
155.0	000.0008	0292.2	004.5		350.5	000.3165	-0011.7	031.0	36.78
156.0	000.0008	0290.2	004.5		350.4	000.3144	-0012.0	030.9	36.79
157.0	000.0008	0287.2	004.6		350.2	000.3121	-0012.2	030.9	36.79
158.0	000.0009	0283.3	004.6		350.1	000.3097	-0012.5	030.8	36.79
159.0	000.0009	0279.2	004.7		350.0	000.3070	-0012.9	030.7	36.78
160.0	000.0009	0274.9	004.7		349.8	000.3036	-0013.3	030.7	36.76
161.0	000.0010	0270.6	004.8		349.7	000.3002	-0013.9	030.6	36.74
162.0	000.0010	0266.5	004.8		349.6	000.2967	-0014.4	030.5	36.72
163.0	000.0011	0262.8	004.9		349.4	000.2931	-0015.0	030.5	36.70
164.0	000.0012	0260.0	005.0		349.3	000.2894	-0015.5	030.4	36.68
165.0	000.0012	0257.5	005.0		349.1	000.2856	-0016.0	030.3	36.65
166.0	000.0013	0255.9	005.1		349.0	000.2818	-0016.4	030.2	36.63
167.0	000.0013	0255.2	005.2		348.8	000.2778	-0016.9	030.2	36.60
168.0	000.0014	0255.6	005.2		348.6	000.2738	-0017.5	030.1	36.58
169.0	000.0014	0256.0	005.3		348.5	000.2696	-0018.1	030.0	36.55
170.0	000.0015	0256.5	005.4		348.3	000.2653	-0018.9	029.9	36.51
171.0	000.0016	0257.7	005.5		348.1	000.2609	-0019.8	029.8	36.49
172.0	000.0017	0257.7	005.6		347.9	000.2563	-0020.9	029.8	36.45
173.0	000.0018	0256.1	005.7		347.7	000.2517	-0022.1	029.7	36.41
174.0	000.0018	0253.4	005.7		347.5	000.2471	-0023.5	029.6	36.35
175.0	000.0019	0251.0	005.8		347.3	000.2424	-0024.8	029.6	36.29
176.0	000.0020	0249.6	005.8		347.1	000.2377	-0026.1	029.5	36.23
177.0	000.0021	0247.2	005.9		346.8	000.2329	-0027.4	029.5	36.16
178.0	000.0022	0244.9	005.9		346.6	000.2282	-0028.8	029.5	36.09
179.0	000.0023	0244.2	006.0		346.4	000.2233	-0030.4	029.4	36.02
180.0	000.0024	0243.5	006.1		346.2	000.2183	-0032.2	029.4	35.95
181.0	000.0025	0244.1	006.2		345.9	000.2130	-0034.3	029.3	35.87
182.0	000.0026	0244.2	006.3		345.7	000.2077	-0036.6	029.3	35.80
183.0	000.0028	0244.1	006.4		345.4	000.2023	-0039.0	029.2	35.71
184.0	000.0029	0244.9	006.5		345.1	000.1969	-0041.5	029.1	35.62
185.0	000.0030	0247.0	006.6		344.9	000.1911	-0043.9	029.1	35.53
186.0	000.0032	0249.6	006.7		344.6	000.1852	-0045.9	029.0	35.43
187.0	000.0033	0250.8	006.8		344.3	000.1795	-0047.5	029.0	35.32
188.0	000.0035	0252.3	006.9		344.0	000.1738	-0048.7	028.9	35.20

189.0	000.0036	0255.8	007.0		343.6	000.1676	-0049.6	028.8	35.08
190.0	000.0038	0259.0	007.2		343.3	000.1614	-0050.0	028.8	34.95
191.0	000.0040	0262.7	007.3		342.9	000.1547	-0049.9	028.7	34.81
192.0	000.0042	0264.5	007.5		342.6	000.1484	-0049.5	028.6	34.66
193.0	000.0044	0266.1	007.6		342.2	000.1422	-0048.8	028.6	34.50
194.0	000.0046	0267.3	007.7		341.9	000.1361	-0048.1	028.6	34.33
195.0	000.0048	0268.6	007.8		341.5	000.1300	-0047.3	028.5	34.15
196.0	000.0050	0270.5	008.0		341.1	000.1239	-0046.1	028.5	33.96
197.0	000.0053	0273.1	008.1		340.7	000.1176	-0044.2	028.5	33.75
198.0	000.0055	0276.4	008.3		340.3	000.1111	-0041.6	028.4	33.52
199.0	000.0057	0280.7	008.4		339.9	000.1053	-0038.4	028.4	33.31
200.0	000.0060	0285.4	008.6		339.4	000.1013	-0035.0	028.3	33.16
201.0	000.0063	0289.8	008.8		338.9	000.0970	-0031.8	028.3	33.00
202.0	000.0066	0293.5	009.0		338.4	000.0930	-0029.2	028.3	32.83
203.0	000.0070	0296.7	009.1		338.0	000.0890	-0027.2	028.3	32.65
204.0	000.0073	0300.0	009.3		337.5	000.0852	-0025.9	028.3	32.46
205.0	000.0076	0303.8	009.5		337.0	000.0813	-0024.8	028.3	32.25
206.0	000.0080	0307.9	009.7		336.5	000.0775	-0023.7	028.3	32.04
207.0	000.0084	0311.9	009.8		336.0	000.0737	-0021.8	028.3	31.81
208.0	000.0087	0315.2	010.0		335.6	000.0702	-0019.3	028.3	31.58
209.0	000.0091	0317.6	010.2		335.1	000.0669	-0016.6	028.4	31.34
210.0	000.0095	0319.1	010.3		334.7	000.0638	-0014.0	028.5	31.10
211.0	000.0097	0320.0	010.4		334.4	000.0617	-0012.2	028.6	30.89
212.0	000.0099	0320.3	010.4		334.1	000.0597	-0010.7	028.7	30.68
213.0	000.0101	0320.2	010.5		333.8	000.0578	-0009.5	028.8	30.47
214.0	000.0103	0320.1	010.5		333.5	000.0560	-0008.6	028.9	30.27
215.0	000.0105	0320.0	010.6		333.3	000.0543	-0007.9	029.1	30.06
216.0	000.0107	0320.4	010.6		333.0	000.0526	-0007.4	029.2	29.85
217.0	000.0109	0321.1	010.7		332.7	000.0509	-0006.9	029.4	29.63
218.0	000.0111	0321.6	010.7		332.5	000.0493	-0006.5	029.5	29.42
219.0	000.0113	0321.9	010.8		332.2	000.0478	-0006.3	029.7	29.21
220.0	000.0115	0321.9	010.8		332.0	000.0464	-0006.0	029.8	29.01
221.0	000.0115	0322.1	010.9		331.8	000.0456	-0005.8	030.0	28.84
222.0	000.0115	0322.9	010.9		331.7	000.0447	-0005.6	030.2	28.68
223.0	000.0115	0324.0	010.9		331.6	000.0438	-0005.4	030.3	28.51
224.0	000.0115	0325.2	010.9		331.4	000.0430	-0005.1	030.5	28.34
225.0	000.0115	0326.2	010.9		331.3	000.0422	-0004.8	030.7	28.18
226.0	000.0115	0326.7	010.9		331.2	000.0416	-0004.6	030.9	28.04
227.0	000.0115	0326.9	010.9		331.1	000.0411	-0004.5	031.0	27.90
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04-06-2014 Terrain Data: NGDC 30 SEC FMOver Analysis

KSMC BLED19840702CA

KZCT

Channel = 208A

Channel = 208A

Max ERP = 0.8 kW

Max ERP = 0.0115 kW

RCAMSL = 205 M
N. Lat. 37 50 25.0
W. Lng. 122 06 36.0
Protected
60 dBu

RCAMSL = 343 M
N. Lat. 38 09 06.0
W. Lng. 122 11 25.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
289.0	000.0253	-0041.1	004.0	174.3	000.0019	0252.2	033.5	31.33	
290.0	000.0253	-0049.8	004.0	174.3	000.0019	0252.4	033.4	31.36	
291.0	000.0253	-0060.6	004.0	174.2	000.0019	0252.6	033.4	31.38	
292.0	000.0253	-0071.4	004.0	174.2	000.0019	0252.8	033.3	31.41	
293.0	000.0253	-0081.2	004.0	174.1	000.0018	0253.0	033.2	31.43	
294.0	000.0253	-0089.3	004.0	174.1	000.0018	0253.2	033.2	31.46	
295.0	000.0253	-0094.7	004.0	174.0	000.0018	0253.4	033.1	31.48	
296.0	000.0253	-0097.1	004.0	173.9	000.0018	0253.6	033.1	31.51	
297.0	000.0253	-0096.0	004.0	173.9	000.0018	0253.8	033.0	31.53	
298.0	000.0253	-0091.4	004.0	173.8	000.0018	0254.0	033.0	31.55	
299.0	000.0253	-0082.3	004.0	173.7	000.0018	0254.2	032.9	31.57	
300.0	000.0253	-0069.7	004.0	173.7	000.0018	0254.4	032.8	31.59	
301.0	000.0254	-0054.3	004.0	173.6	000.0018	0254.6	032.8	31.61	
302.0	000.0255	-0039.1	004.0	173.5	000.0018	0254.8	032.7	31.63	
303.0	000.0255	-0025.4	004.0	173.5	000.0018	0254.9	032.7	31.65	
304.0	000.0256	-0013.2	004.0	173.4	000.0018	0255.1	032.6	31.67	
305.0	000.0256	-0000.7	004.0	173.3	000.0018	0255.3	032.6	31.68	
306.0	000.0257	0011.9	004.0	173.2	000.0018	0255.5	032.5	31.70	
307.0	000.0257	0022.4	004.0	173.1	000.0018	0255.7	032.5	31.71	
308.0	000.0258	0028.2	004.0	173.1	000.0018	0255.9	032.4	31.73	
309.0	000.0259	0029.3	004.0	173.0	000.0017	0256.1	032.4	31.74	
310.0	000.0259	0027.0	004.0	172.9	000.0017	0256.3	032.3	31.76	
311.0	000.0262	0022.0	004.0	172.8	000.0017	0256.5	032.3	31.77	
312.0	000.0265	0015.9	004.0	172.7	000.0017	0256.7	032.2	31.79	
313.0	000.0268	0009.8	004.0	172.7	000.0017	0256.9	032.1	31.81	
314.0	000.0271	0003.7	004.0	172.6	000.0017	0257.1	032.1	31.82	
315.0	000.0274	-0003.3	004.0	172.5	000.0017	0257.2	032.0	31.83	
316.0	000.0277	-0009.5	004.0	172.4	000.0017	0257.3	032.0	31.84	
317.0	000.0280	-0012.8	004.1	172.3	000.0017	0257.4	031.9	31.85	
318.0	000.0283	-0013.4	004.1	172.2	000.0017	0257.5	031.9	31.86	
319.0	000.0286	-0013.1	004.1	172.1	000.0017	0257.6	031.8	31.87	
320.0	000.0289	-0013.1	004.1	172.0	000.0017	0257.7	031.8	31.88	
321.0	000.0295	-0014.8	004.1	171.9	000.0017	0257.8	031.7	31.89	
322.0	000.0301	-0017.3	004.1	171.8	000.0017	0257.8	031.7	31.90	
323.0	000.0307	-0018.9	004.2	171.7	000.0016	0257.9	031.6	31.91	
324.0	000.0314	-0018.8	004.2	171.6	000.0016	0258.0	031.6	31.92	
325.0	000.0320	-0016.9	004.2	171.5	000.0016	0258.0	031.5	31.93	
326.0	000.0326	-0014.0	004.2	171.4	000.0016	0258.0	031.5	31.93	
327.0	000.0333	-0010.7	004.2	171.3	000.0016	0257.9	031.4	31.93	

328.0	000.0339	-0007.2	004.3		171.2	000.0016	0257.9	031.4	31.93
329.0	000.0346	-0003.5	004.3		171.1	000.0016	0257.8	031.3	31.93
330.0	000.0353	-0002.5	004.3		171.0	000.0016	0257.7	031.3	31.93
331.0	000.0407	-0004.3	004.5		171.0	000.0016	0257.6	031.1	32.01
332.0	000.0465	-0006.0	004.6		170.9	000.0016	0257.6	030.9	32.10
333.0	000.0526	-0007.4	004.8		170.9	000.0016	0257.5	030.8	32.18
334.0	000.0592	-0010.4	004.9		170.8	000.0016	0257.5	030.6	32.26
335.0	000.0661	-0015.9	005.1		170.7	000.0016	0257.4	030.4	32.33
336.0	000.0734	-0021.6	005.2		170.6	000.0016	0257.2	030.3	32.39
337.0	000.0812	-0024.8	005.3		170.5	000.0015	0257.1	030.1	32.45
338.0	000.0892	-0027.3	005.5		170.4	000.0015	0257.0	030.0	32.51
339.0	000.0977	-0032.3	005.6		170.3	000.0015	0256.8	029.8	32.56
340.0	000.1066	-0039.4	005.7		170.1	000.0015	0256.7	029.7	32.60
341.0	000.1220	-0045.6	005.9		170.0	000.0015	0256.5	029.5	32.69
342.0	000.1384	-0048.3	006.1		169.9	000.0015	0256.4	029.3	32.78
343.0	000.1559	-0050.0	006.3		169.7	000.0015	0256.2	029.1	32.87
344.0	000.1745	-0048.6	006.5		169.5	000.0015	0256.1	028.9	32.94
345.0	000.1940	-0042.7	006.7		169.3	000.0015	0256.0	028.7	33.02
346.0	000.2147	-0033.6	006.8		169.1	000.0015	0256.0	028.5	33.09
347.0	000.2363	-0026.5	007.0		168.9	000.0014	0256.0	028.3	33.16
348.0	000.2590	-0020.2	007.2		168.6	000.0014	0255.9	028.2	33.21
349.0	000.2827	-0016.3	007.3		168.4	000.0014	0255.8	028.0	33.26
350.0	000.3075	-0012.8	007.5		168.1	000.0014	0255.7	027.9	33.30
351.0	000.3272	-0010.3	007.6		167.8	000.0014	0255.5	027.7	33.32
352.0	000.3474	-0005.1	007.7		167.5	000.0014	0255.3	027.6	33.33
353.0	000.3683	0003.1	007.8		167.2	000.0013	0255.2	027.5	33.34
354.0	000.3898	0014.8	007.9		166.9	000.0013	0255.2	027.4	33.35
355.0	000.4118	0023.9	008.1		166.6	000.0013	0255.3	027.3	33.35
356.0	000.4345	0027.5	008.2		166.3	000.0013	0255.6	027.2	33.36
357.0	000.4578	0030.6	008.4		165.9	000.0013	0256.0	027.1	33.41
358.0	000.4817	0035.6	009.1		165.2	000.0012	0257.0	026.4	33.79
359.0	000.5063	0042.9	010.2		164.3	000.0012	0259.2	025.4	34.36
000.0	000.5314	0050.2	011.2		163.3	000.0011	0262.0	024.5	34.89
001.0	000.5491	0057.2	012.0		162.2	000.0011	0265.6	023.7	35.31
002.0	000.5672	0063.7	012.7		161.2	000.0010	0269.9	023.2	35.63
003.0	000.5855	0070.7	013.4		160.0	000.0009	0274.9	022.6	35.95
004.0	000.6041	0077.5	014.1		158.7	000.0009	0280.4	022.1	36.29
005.0	000.6230	0082.7	014.7		157.4	000.0008	0285.6	021.7	36.53
006.0	000.6423	0088.2	015.3		156.0	000.0008	0290.2	021.2	36.73
007.0	000.6618	0094.7	016.1		154.3	000.0007	0293.3	020.7	36.88
008.0	000.6815	0101.3	016.9		152.3	000.0007	0294.7	020.2	36.93
009.0	000.7016	0107.6	017.6		150.4	000.0006	0294.9	019.8	36.83
010.0	000.7220	0112.1	018.2		148.7	000.0006	0295.1	019.6	36.76
011.0	000.7296	0115.7	018.5		147.3	000.0006	0295.3	019.5	36.64
012.0	000.7373	0118.9	018.8		146.0	000.0005	0295.4	019.6	36.47
013.0	000.7450	0121.1	019.0		144.8	000.0005	0294.9	019.6	36.24
014.0	000.7527	0122.4	019.2		143.9	000.0005	0294.0	019.8	35.96
015.0	000.7605	0122.3	019.2		143.2	000.0005	0293.0	020.0	35.66
016.0	000.7683	0121.0	019.2		142.7	000.0005	0292.3	020.3	35.34

017.0	000.7762	0119.5	019.1		142.3	000.0005	0291.6	020.6	35.02
018.0	000.7841	0119.0	019.1		141.8	000.0005	0290.6	020.9	34.71
019.0	000.7920	0119.4	019.2		141.1	000.0005	0289.4	021.1	34.39
020.0	000.8000	0120.4	019.3		140.3	000.0005	0287.8	021.4	34.07
021.0	000.7920	0121.6	019.4		139.8	000.0004	0286.6	021.6	33.77
022.0	000.7841	0122.9	019.4		139.2	000.0004	0285.3	021.9	33.49
023.0	000.7762	0124.1	019.5		138.8	000.0004	0284.1	022.2	33.20
024.0	000.7683	0125.2	019.5		138.3	000.0004	0283.0	022.5	32.92
025.0	000.7605	0126.3	019.5		137.9	000.0004	0282.0	022.8	32.63
026.0	000.7527	0127.3	019.5		137.5	000.0004	0281.0	023.1	32.35
027.0	000.7450	0128.0	019.5		137.2	000.0004	0280.2	023.4	32.07
028.0	000.7373	0128.6	019.5		137.0	000.0004	0279.5	023.7	31.79
029.0	000.7296	0129.2	019.5		136.7	000.0004	0278.9	024.1	31.52
030.0	000.7220	0129.4	019.5		136.6	000.0004	0278.4	024.4	31.25
031.0	000.7016	0129.1	019.3		136.7	000.0004	0278.9	024.8	31.01
032.0	000.6815	0128.6	019.2		136.9	000.0004	0279.3	025.2	30.77
033.0	000.6618	0128.2	019.0		137.1	000.0004	0279.8	025.5	30.54
034.0	000.6423	0127.8	018.8		137.3	000.0004	0280.4	025.9	30.31
035.0	000.6230	0127.2	018.6		137.5	000.0004	0281.0	026.2	30.10
036.0	000.6041	0126.1	018.4		137.9	000.0004	0281.9	026.6	29.90
037.0	000.5855	0124.4	018.1		138.3	000.0004	0283.1	027.0	29.71
038.0	000.5672	0121.9	017.8		138.9	000.0004	0284.4	027.3	29.54
039.0	000.5491	0119.0	017.4		139.5	000.0004	0286.0	027.7	29.38
040.0	000.5314	0116.0	017.0		140.2	000.0004	0287.6	028.1	29.25
041.0	000.5063	0112.4	016.5		141.1	000.0005	0289.5	028.5	29.20
042.0	000.4817	0108.5	015.9		142.2	000.0005	0291.3	028.8	29.15
043.0	000.4578	0105.2	015.4		143.0	000.0005	0292.8	029.2	29.10
044.0	000.4345	0102.4	015.0		143.8	000.0005	0293.9	029.5	29.03
045.0	000.4118	0099.1	014.5		144.6	000.0005	0294.7	029.9	28.96
046.0	000.3898	0095.2	014.0		145.5	000.0005	0295.2	030.2	28.90
047.0	000.3683	0091.2	013.5		146.3	000.0005	0295.4	030.5	28.83
048.0	000.3474	0087.9	013.1		147.0	000.0006	0295.4	030.8	28.75

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Exhibit 22: Non-Ionizing Electromagnetic Radiation (NEIR) Analysis

The Effective Radiated Power for proposed will be 11.5 watts. The OET program FM Model for Windows, Version 2.10 Beta was used to determine the maximum predicted RF exposure. The settings used were:

Antenna: Phelps-Dodge "Ring Stub"
Horizontal ERP (W): 11.5
Vertical ERP (W): 11.5
Antenna Height (m): 4
Number of Elements: 1

The Phelps-Dodge Antenna (circular polarized) was selected in FM Model as an exaggerated "worst case" emitter. Using these settings, the maximum predicted RF exposure for a human standing on the ground would be $116 \mu\text{W}/\text{cm}^2$ at .6 m. This level is under the FCC Maximum Permissible Exposure (MPE) of $200 \mu\text{W}/\text{cm}^2$ for uncontrolled environments.

Tower is located on a remote mountaintop on private property with proper signage and security, managed by a professional site contractor. If work needs to be done on the tower near the antenna, the transmitter power will be turned down or off.