

**MINOR CHANGE APPLICATION**  
**FAMILY WORSHIP CENTER CHURCH, INC.**  
**K217EE FM TRANSLATOR STATION**  
**CH 201D - 88.1 MHZ - 0.250 KW**  
**BISHOP, CALIFORNIA**  
**October 2012**

**EXHIBIT A**

The proposed K217EE will operate with an effective radiated power of 0.250 kilowatt at 35.0 meters (114.8 feet) above ground level, will not cause interference to any existing, applied for, or proposed facility. As noted on Exhibit A1, the proposed K217EE is within the predicted 60 dBu contour of second adjacent station KWTW, Channel 203B, Bishop, California. Due to the relationship between K217EE and KWTW, a 40 db ratio of the protected and interfering contours applies.

We have, therefore, calculated the level of signal of KWTW at the proposed K217EE site. A map showing the KWTW contour at the proposed K217EE site is attached as Exhibit A2. The KWTW contour at the K217EE site is 82.0 dBu (50/50), and the corresponding interfering contour for K217EE is 122.0 dBu (50/10). The 122.0 dBu interfering contour of K217EE extends 0.09 kilometer (295.3 feet) as indicated on Exhibit A3. While the K217EE antenna will be mounted at only 35 meters (114.8 feet) above ground level, the area surrounding the proposed K217EE site is rural in nature as indicated on Exhibit A3. As such, KWTW will not receive interference from the proposed translator as the K217EE interfering signal will be over an unpopulated area without public access.

Based on the foregoing, it is believed that the proposed K217EE is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address KWTW, one is respectfully requested.

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**EXHIBIT A1**

Interference Study for K217EE on Channel 201, Bishop, California  
Using Proposed/Licensed Site as Reference

REFERENCE		CH# 201D - 88.1 MHz, Pwr= 0.25 kW, HAAT= -204.0 M, COR= 1620 M						DISPLAY DATES			
37 21 18.0 N.		Average Protected F(50-50)= 7.1 km						DATA 10-10-12			
118 17 04.0 W.		Omni-directional						SEARCH 10-10-12			
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*
203B Bishop	KWTW	LIC CA	DCX	53.4	10.88	37 24 48.0	0.900	1.5	55.2	2.3	-45.5*<
				233.4	BLED20020128AAA	118 11 08.0	889	3299	Living Proof, Inc.		
06 D Manhattan	K06KQ-D	LI NV	D N	38.7	169.42	38 32 16.0	0.020	1.1	19.0	148.0R	21.4M
				219.5	BLDTV20110531AQP	117 03 57.0	378	2235	County Of Nye		
06-T Gabbs	K06NZ	LI NV	D N	11.4	171.55	38 52 02.0	0.057	1.1	19.0	148.0R	23.6M
				191.6	BLTTV20040204ACX	117 53 39.0	341	1722	City Of Gabbs		
201B Fresno	KFCF	LIC CA	CN	253.2	106.23	37 04 23.0	2.400	48.8	12.5	36.0	28.6
				72.5	BLED19800318AE	119 25 51.0	579	1409	Fresno Free College Founda		
06NT Yerington	K06KC	LI NV	DHN	335.5	199.90	38 59 15.0	0.027	1.1	19.0	148.0R	51.9M
				154.9	BLTTV19800930IE	119 14 35.0	614	1948	Lyon County Public Works		
201D Scotty's Junction	K201BF	LIC NV	DCN	93.5	90.92	37 18 00.0	0.110	19.4	5.5	64.4	61.6
				274.2	BLFT19880411TB	117 15 30.0	461	2146	Nevada Public Radio		
062T Inyokern, Etc.	KLOA-LP	LI CA	D N	168.7	217.42	35 26 10.0	3.000	1.1	19.0	148.0R	69.4M
				349.0	BLTVL20080516ABV	117 48 56.0	895	1528	Robert D. Adelman		
06+T Johannesburg	1273699	AP CA	D N	165.2	228.88	35 21 46.0	0.250	1.1	19.0	148.0R	80.9M
				345.6	BNPTVL20000829AXH	117 38 24.0	525	1291	Jeff Chang		
06 D Ceres	1330972	AP CA	D N	274.6	229.14	37 29 26.8	0.300	1.1	19.0	148.0R	81.1M
				93.0	BNPDVL20090825BYV	120 52 26.8	79	95	One Ministries, Inc.		
06NT Dayton	K06JK	LI NV	DHN	333.4	229.93	39 11 52.0	0.047	1.1	19.0	148.0R	81.9M
				152.6	BLTTV19780822IC	119 28 50.0	1130	2548	Lyon County Public Works		
062T Bakersfield	K06OW	CP CA	D N	191.5	230.72	35 19 12.0	3.000	1.1	19.0	148.0R	82.7M
				11.2	BNPTVL20000831BGT	118 47 22.0	169	312	Marcia T. Turner Tr/as Tur		
06-T San Fernando Valley	KSFV-CA	LI CA	N	176.6	349.92	34 12 46.0	0.499	1.1	19.0	265.0R	84.9M
				356.8	BLTVA20041104AKL	118 03 42.0		1680	Venture Technologies Group		
06-T Los Angeles	KSFV-CA	AP CA	N	176.6	349.92	34 12 46.1	3.000	1.1	19.0	265.0R	84.9M
				356.8	BPTVA20090630AFD	118 03 41.6	1486	1680	Venture Technologies Group		
06 D Reno	1330491	AP NV	N	332.5	280.66	39 35 03.0	0.300	1.1	19.0	148.0R	132.7M
				151.5	BNPDVL20090825AOE	119 47 52.0	367	1725	Alma Corporation		

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= East Zone 2A, 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.

< = Contour Overlap

**K217EE - Proposed**  
Latitude: 37-21-18 N  
Longitude: 118-17-04 W  
ERP: 0.25 kW  
Channel: 201D  
Frequency: 88.1 MHz  
AMSL Height: 1620.0 m  
Horiz. Pattern: Omni  
Prop Model: FCC

**KWTW**  
BLED-20020128AAA  
Latitude: 37-24-48 N  
Longitude: 118-11-08 W  
ERP: 0.90 kW  
Channel: 203B  
Frequency: 88.5 MHz  
AMSL Height: 3299.0 m  
Horiz. Pattern: Directional  
Prop Model: FCC

**Graham Brock, Inc. - Broadcast Technical Consultants**

KWTW 82.0 dBu (50/50)

37-22-30 N

Bishop

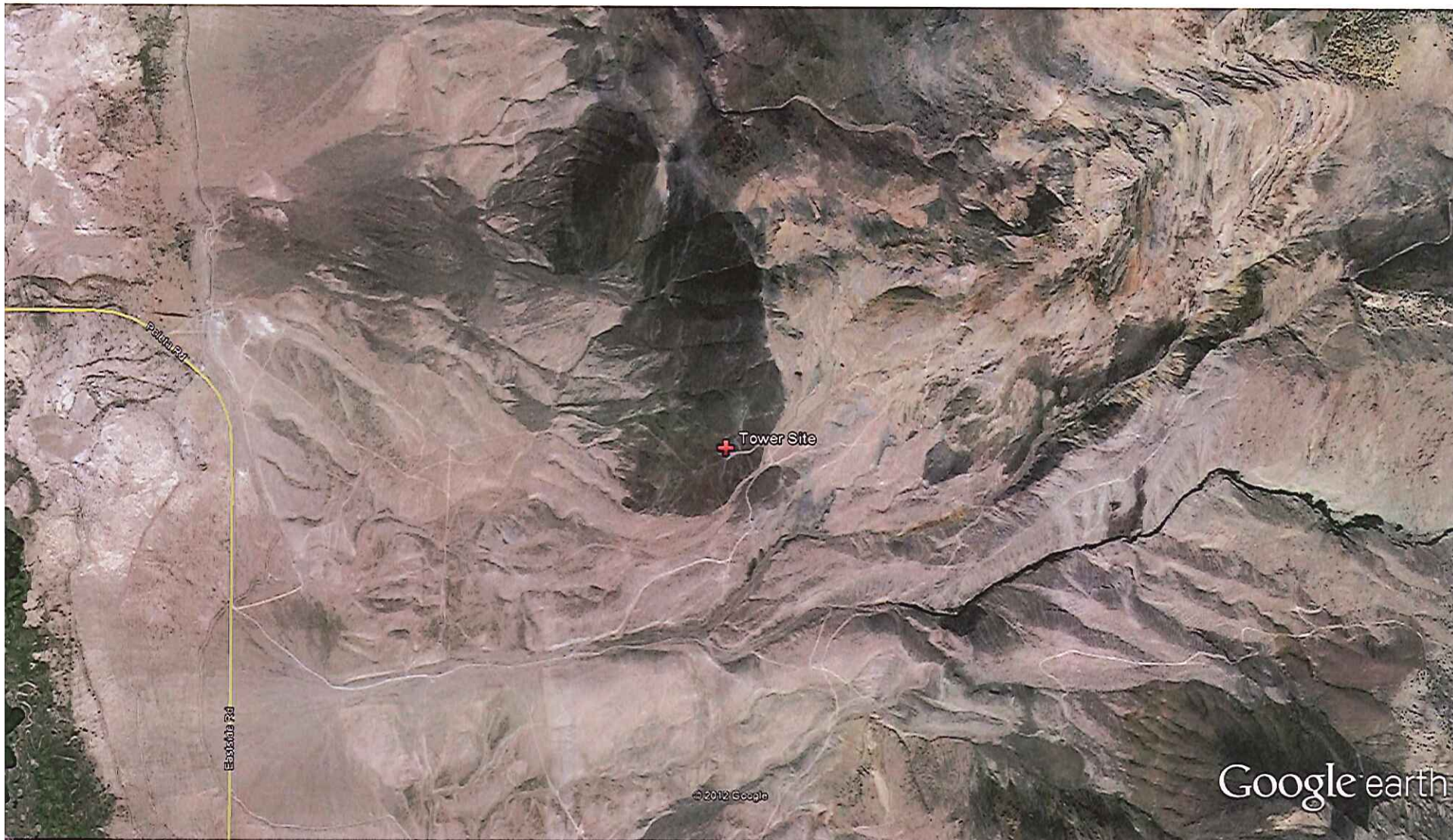
K217EE

K217EE SITE

**EXHIBIT A2**  
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Scale 1:200,000  
0 2 4 6 km





Google earth

miles  
km



**EXHIBIT A3**  
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**EXHIBIT A4**

Predicted contour:

N. Lat. = 37 21 18.0 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 118 17 04.0 - K217EE FM Translator - Bishop, California

HAAT and Distance to Contour - FCC 30 second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1	122-F1
000	1882.3	-262.3	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
010	2246.6	-626.6	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
020	2484.7	-864.7	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
030	2607.0	-987.0	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
040	2662.6	-1042.6	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
050	2702.5	-1082.5	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
060	2820.5	-1200.5	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
070	2774.1	-1154.1	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
080	2647.8	-1027.8	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
090	2474.2	-854.2	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
100	2372.6	-752.6	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
110	2306.3	-686.3	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
120	2307.0	-687.0	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
130	2266.8	-646.8	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
140	2157.0	-537.0	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
150	1990.1	-370.1	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
160	1764.9	-144.9	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09
170	1366.6	253.4	0.2500	-6.02	1.000	20.81	63.57	30.85	1.11	0.09
180	1246.7	373.3	0.2500	-6.02	1.000	25.04	75.04	38.11	1.11	0.09
190	1230.3	389.7	0.2500	-6.02	1.000	25.53	76.53	39.09	1.11	0.09
200	1224.6	395.4	0.2500	-6.02	1.000	25.70	77.04	39.42	1.11	0.09
210	1247.3	372.7	0.2500	-6.02	1.000	25.02	74.99	38.08	1.11	0.09
220	1334.2	285.8	0.2500	-6.02	1.000	22.04	66.71	32.83	1.11	0.09
230	1463.8	156.2	0.2500	-6.02	1.000	16.30	52.64	24.39	1.11	0.09
240	1459.3	160.7	0.2500	-6.02	1.000	16.58	53.23	24.77	1.11	0.09
250	1406.5	213.5	0.2500	-6.02	1.000	19.13	59.51	28.42	1.11	0.09
260	1310.0	310.0	0.2500	-6.02	1.000	22.92	68.99	34.28	1.11	0.09
270	1292.1	327.9	0.2500	-6.02	1.000	23.55	70.72	35.35	1.11	0.09
280	1284.2	335.8	0.2500	-6.02	1.000	23.81	71.49	35.83	1.11	0.09
290	1279.7	340.3	0.2500	-6.02	1.000	23.96	71.92	36.10	1.11	0.09
300	1282.2	337.8	0.2500	-6.02	1.000	23.88	71.69	35.95	1.11	0.09
310	1284.5	335.5	0.2500	-6.02	1.000	23.80	71.46	35.81	1.11	0.09
320	1285.1	334.9	0.2500	-6.02	1.000	23.79	71.41	35.78	1.11	0.09
330	1293.8	326.2	0.2500	-6.02	1.000	23.49	70.55	35.25	1.11	0.09
340	1371.0	249.0	0.2500	-6.02	1.000	20.63	63.14	30.59	1.11	0.09
350	1620.9	-0.9	0.2500	-6.02	1.000	7.09	23.76	10.15	1.11	0.09

AMSL= 1620.0 M