

Figure 1

**K217CL - MINOR CHANGE TO LICENSED FACILITY (250-mile window application)
 Demonstration of 60 dBu contour within lesser of 2 mV or 25-mile radius of KEYY (AM)**

Table 1

MINOR CHANGE TO LICENSED FACILITY (250-mile window application): Proposed Channel 217

Channel Study

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)	
215	C	KRCL	FM	LIC	SALT LAKE CITY	UT	US	LISTENERS COMMUNITY R/	62.01	310.32	90.41	-28.403	71.1	(see NOTE)
215	D	KRCL-FM1	FB	LIC	PARK CITY	UT	US	LISTENERS COMMUNITY R/	63.16	12.4	28.75	34.413		
217	D	K217CL	FX	LIC	PROVO	UT	US	YOUR CHRISTIAN COMPAN	24.95	264.46	84.58	-59.63		(applicant)
217	D	K217FQ	FX	LIC	CENTERVILLE	UT	US	BIBLE BROADCASTING NET	60.17	339.72	33.38	26.788		
218	D	K218EM	FX	LIC	HEBER CITY	UT	US	UNIVERSITY OF UTAH	32.36	25.73	11.41	20.946		
219	A	KOHS	FM	CP	OREM	UT	US	ALPINE SCHOOL DISTRICT	0.22	260.43	8.12	-7.909	100.0	(see NOTE)
219	A	NEW	FM	APP	OREM	UT	US	R B SCHOOLS	0.24	268.8	6.74	-6.505	97.5	(see NOTE)
219	A	KOHS	FM	LIC	OREM	UT	US	ALPINE SCHOOL DISTRICT	3.63	255.62	12.74	-9.105	80.0	(see NOTE)
219	A	KPCW	FM	CP	PARK CITY	UT	US	COMMUNITY WIRELESS OF	43.68	13.28	11.43	32.259		
219	A	KUFR	FM	LIC	SALT LAKE CITY	UT	US	FAMILY STATIONS, INC.	56.06	338.4	12.09	43.972		
220	D	K220AY	FX	LIC	HEBER CITY, ETC	UT	US	COMMUNITY WIRELESS OF	29.81	39.6	8.95	20.867		
220	A	KPCW	FM	LIC	PARK CITY	UT	US	COMMUNITY WIRELESS OF	43.68	13.28	8.2	35.488		
270	C	KHTB	FM	LIC	OGDEN	UT	US	RADIO LICENSE HOLDING C	62.01	310.32	29	33.009		

NOTE:

(No interference CAUSED to KRCL, KOHS, and "NEW(FM)") Of the three 2nd adjacent facilities, KRCL has the lowest field strength of 71.1 dBu at the proposed site. Therefore, the "worst case" potential interference is the 111.1 dBu F(50,10) contour. At 250 watts ERP, using a Shively 6812B-1 antenna, the proposed translator's 111.1 dBu F(50,10) extends 313 meters horizontally from the antenna. The closest structure is approximately 190 meters from the proposed antenna and is located at lower elevation (38 meters below the horizontal plane of the antenna). **Beyond 134 meters distance, the 111.1 dBu contour does not extend more than 10 meters below the horizontal plane of the antenna.** Therefore, the interfering contour does not reach any occupied structures or population. Therefore this proposal is compliant with the allowance of Rule 74.1204(d). (See Figure 2)



Figure 2-A

**K217CL , PROVO, UT: MINOR CHANGE TO A LICENSED FACILITY
2nd adjacent channel study with respect to KRCL**



("side view")

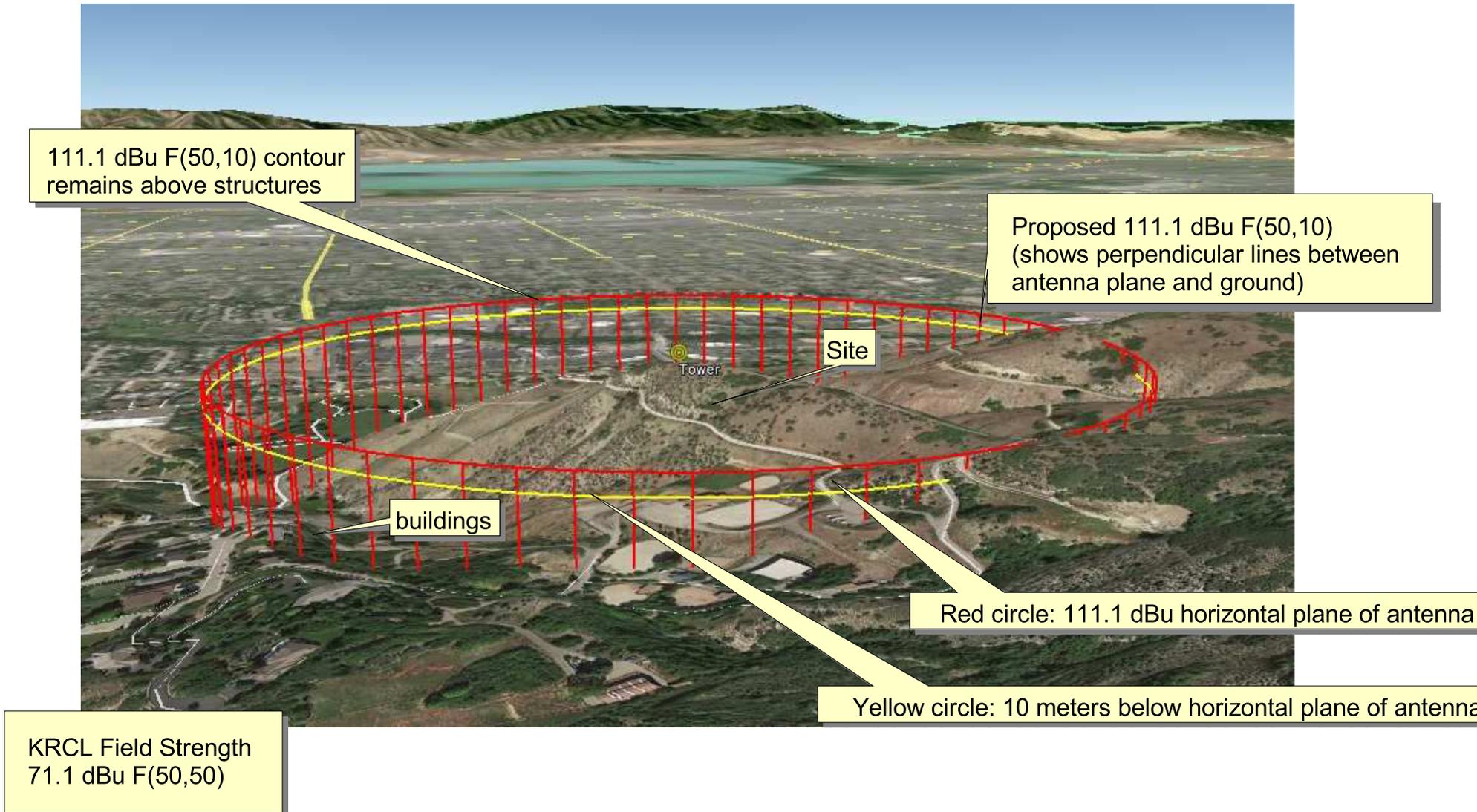


Figure 2-B

**K217CL , PROVO, UT: MINOR CHANGE TO A LICENSED FACILITY
2nd adjacent channel study with respect to KRCL**

("above angle view")

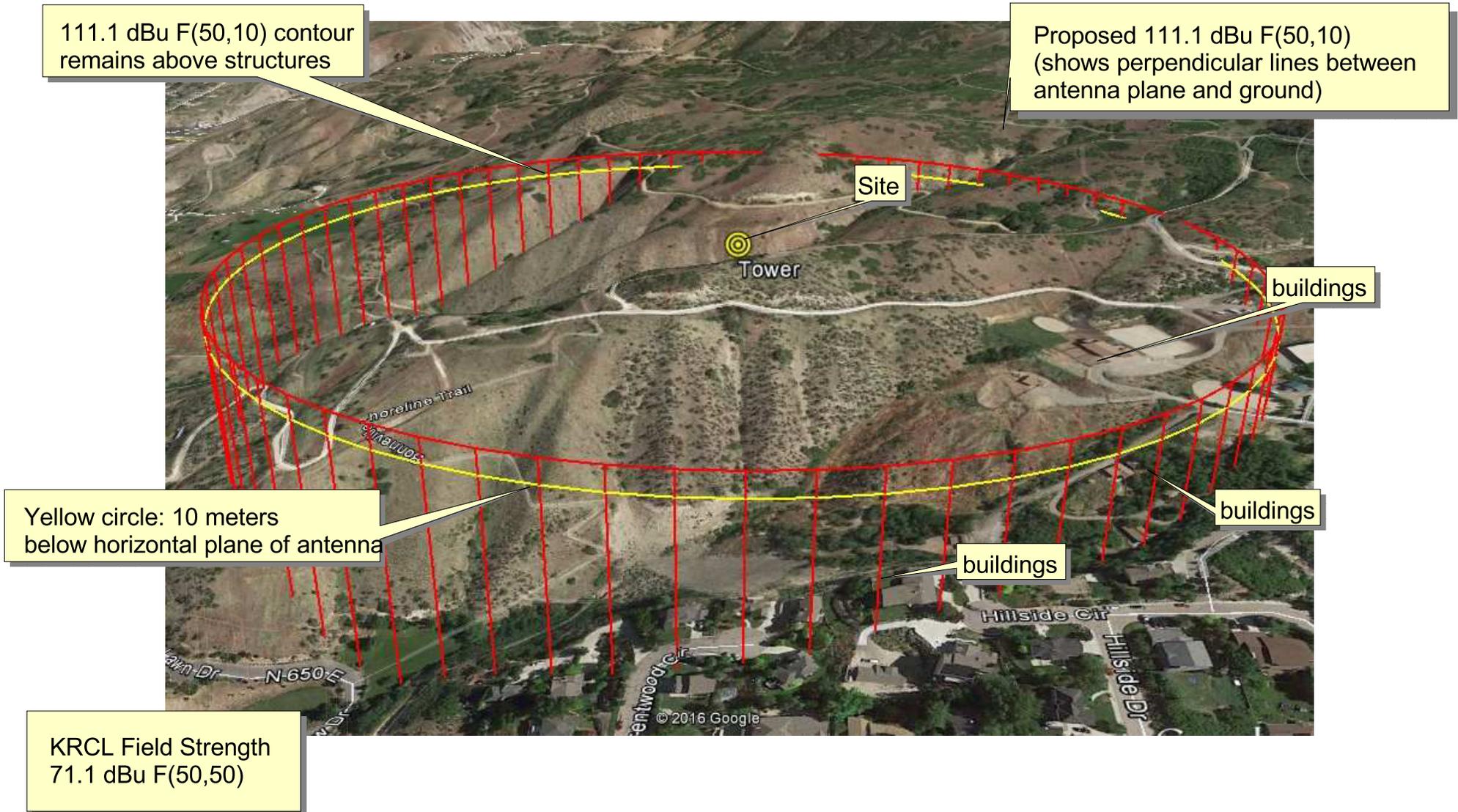


Figure 2-C

**K217CL , PROVO, UT: MINOR CHANGE TO A LICENSED FACILITY
2nd adjacent channel study with respect to KRCL**



Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$)	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	Distance to maximum PD (m)
PROPOSED K217CL	7	SHI 6812B-1	1	0.250	0.250	142.40	14.2%	142.40	71.2%	5.2
						142.40	14.2%	142.40	71.2%	5.2

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using FCC FM Model v2.10 Beta