

**KCGC(FM)**  
**Coarsegold, CA**  
Proposed Minor Modification  
Of Licensed Facility

**Application Overview:**

KCGC(FM) (FCC Facility ID# 164118) proposes to modify its currently Licensed Facilities using the following parameters:

**Tech Box:**

Channel:	233
Class:	A
Antenna Coordinates:	N37-25-10, W119-44-40 (NAD 27)
ASRN:	N/A
Tower Height AGL:	24.4 m
COR AMSL:	1317 m
COR AGL:	19 m
COR HAAT:	352 m
ERP:	0.48 kW
Directional Antenna:	No

**Antenna Site City-Grade Coverage:**

Exhibit 4 demonstrates that the proposed facility's antenna site provides city grade coverage of KCGC(FM)'s community of license – Coarsegold, CA. As can be seen in the Exhibit, 100% of Coarsegold's community boundaries are encompassed by the F(50,50) 70 dBu contour of the proposed facility.

### **Interference Study (Fully Spaced):**

Exhibit 5 is a channel spacings study demonstrating that the proposed antenna site is fully spaced towards all applications, authorizations, and permits pursuant to Section 73.207.

### **Downward Radiation Study (FM Model):**

The proposed FM Facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (OET Bulletin 65, Second Edition 97-01, August, 1997). The Commission's FM Model Power Density Prediction program was employed to determine the field. Using the ERI or JAMPRO JBCP "Rototiller antenna with 2 sections and 0.5 wavelength spacing, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 4.95% of the Uncontrolled Standard with a Power Density of 9.9 microwatts per square centimeter 34.6 meters from the base of the tower.

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

### **Existing Tower:**

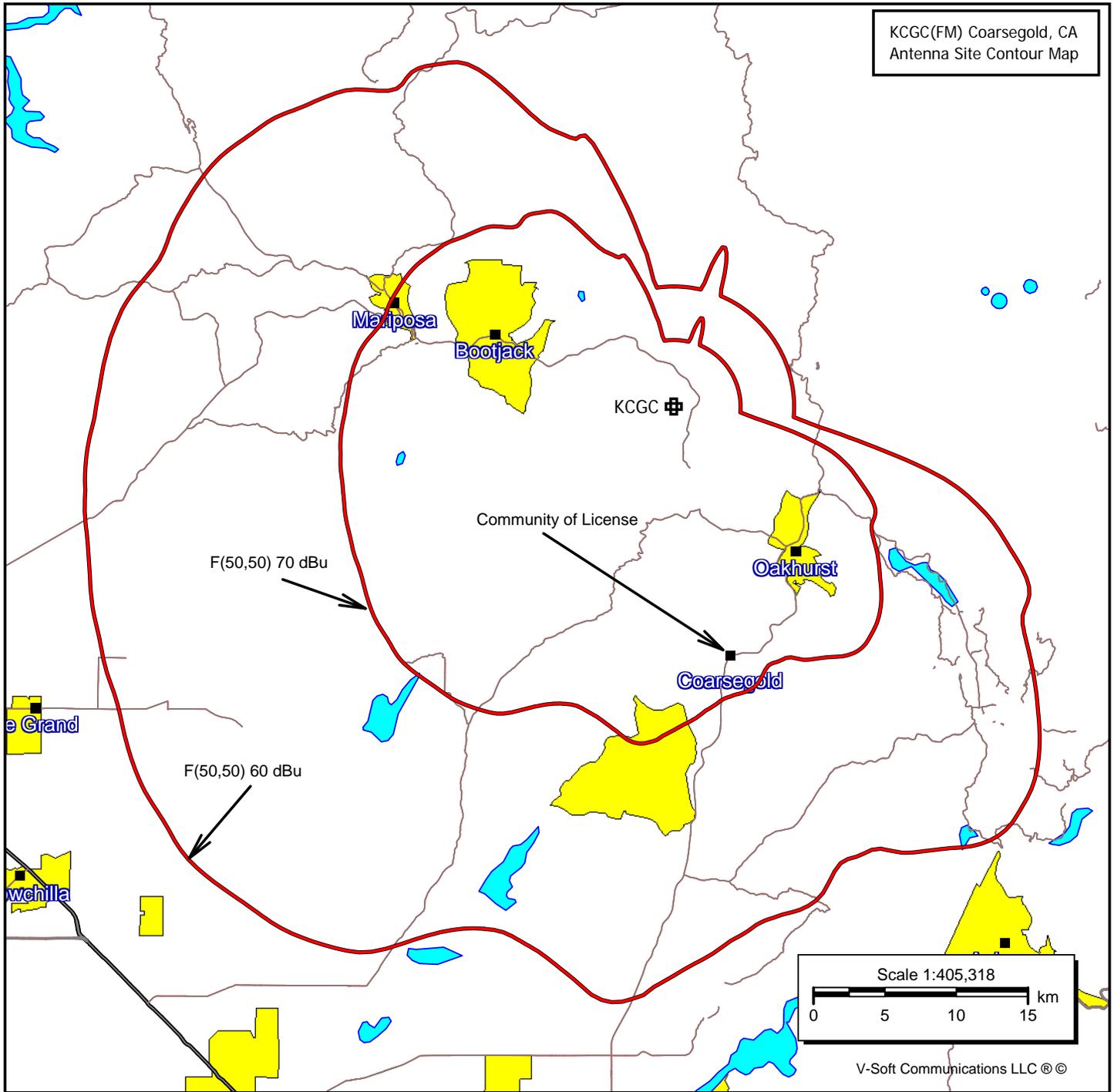
The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

# **Exhibit 4**

## **Proposed Antenna Site Contour Map:**

**F(50,50) Protected Contour  
F(50,50) City-Grade Contour**

KCGC(FM) Coarsegold, CA  
Antenna Site Contour Map



V-Soft Communications LLC ©

**KCGC**  
Channel: 233A  
Frequency: 94.5 MHz  
Latitude: 37-25-10 N  
Longitude: 119-44-40 W  
COR AGL Height: 19.0 m  
COR AMSL Height: 1336.0 m  
Base Elevation: 1317.0 m  
COR HAAT: 351.84 m  
ERP: 0.48 kW  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

# **Exhibit 5**

## **Proposed Antenna Site Channel Spacings Study**

KCGC(FM) Coarsegold, CA  
Section 73.207 Channel Study

REFERENCE

37 25 10.0 N.  
119 44 40.0 W.

CLASS = A  
Current Spacings

DISPLAY DATES

DATA 10-21-10  
SEARCH 10-22-10

----- Channel 233 - 94.5 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
KCGC.C	CP 233A	Coarsegold	CA	151.2	13.73	114.5	-100.77
KBAY.C	CP -D 233B	Gilroy	CA	263.2	181.43	177.5	3.93
KBAY	LIC-D 233B	Gilroy	CA	263.2	181.43	177.5	3.93
KOKO-FM.C	CP -N 232A	Kerman	CA	200.0	75.84	71.5	4.34
KOKO-FM	LIC 232A	Kerman	CA	202.0	81.13	71.5	9.63
KHOP	LIC 236B	Oakdale	CA	301.6	79.95	68.5	11.45
KBKY	LIC 231A	Merced	CA	277.0	43.79	30.5	13.29
KYAF.C	CP 234A	Firebaugh	CA	225.6	88.54	71.5	17.04
KGEN-FM	LIC 233A	Hanford	CA	173.2	135.78	114.5	21.28
KKBZ	LIC 286B1	Auberry	CA	144.1	47.39	11.5	35.89
KGRB	LIC 232B1	Jackson	CA	324.2	135.32	95.5	39.82
KBOS-FM	LIC 235B	Tulare	CA	140.5	112.31	68.5	43.81