

Engineering Exhibit  
KSBL(FM), Carpinteria, CA  
Facility ID 35592  
Minor Modification of Permit Application  
June 2005

By this application it is sought to modify construction permit BPH-20041116ADR to specify a new transmitter location, antenna height, and power.

It is proposed to locate the KSBL antenna upon an existing tower, that does not require registration, located at Latitude N 34 22 21.5; Longitude W 119 25 13.4, at antenna radiation center height of 15 meters above ground level. As operation from this height and location will provide a height above average terrain (HAAT) of 425 meters, a height well in excess of the standard 100 meters for a Class A station, the FCC internet tool "FMpower" was utilized to determine an effective radiated power (ERP) of 320 watts to be appropriate for this height.

From this location KSBL is fully compliant with Section 73.207 spacing as demonstrated in Figure 1. This location will have line of site from the antenna to the community of license as demonstrated by the representative ray path depicted in Figure 2, and the entire community of license will receive at least a 70 dBu signal as determined using several methods, including the standard FCC methodology which is shown in Figure 3.

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The proposed antenna system is an EPA type 3, 3- bay, half wave spaced, "Roto- tiller" antenna, mounted with its center of radiation 15 meters above ground level, and will operate with an effective radiated power of 0.32 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 38 meters from the base of the tower, this proposal will contribute worst case, 5.44 microwatts per square centimeter, or 2.7 percent of the allowable ANSI limit for controlled exposure, and 0.54 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

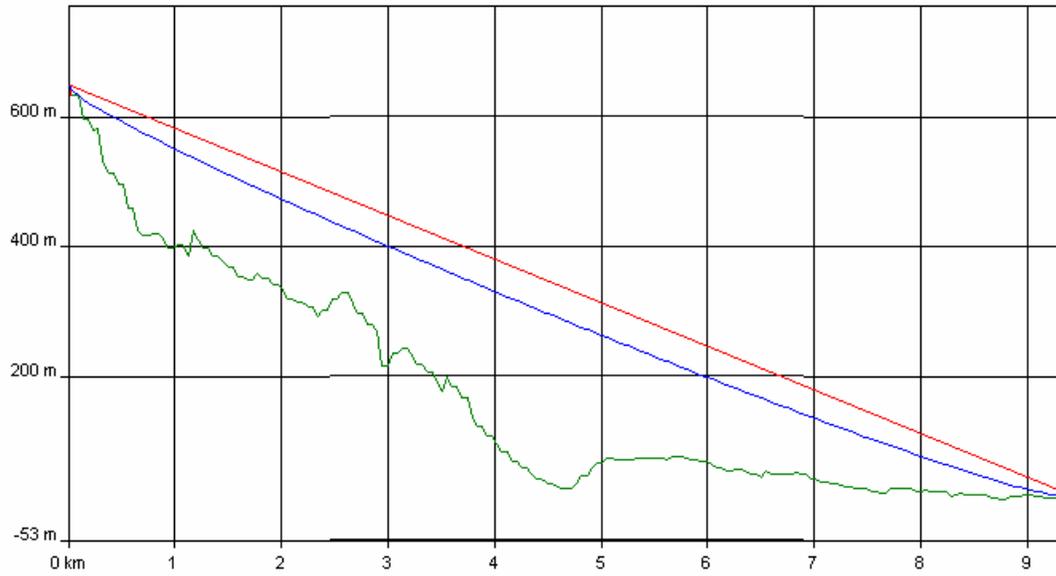
Figure 1.

ComStudy 2.2 search of channel 269 (101.7 MHz Class A) at 34-22-22.0 N, 119-25-13.0 W.

Callsign	State	City	Freq	Chnl	ERP	Class	Status	Dist_km	Sep	Clr
KDSC	CA	THOUSAND OAKS	91.1	216	4800	B	LIC	21.99	15	7.0
K271AC	CA	OJAI	102.1	271	10	D	LIC	8.25	0	8.2
KSCA	CA	GLENDALE	101.9	270	1750	B	LIC	125.77	113	12.8
KSCA	CA	GLENDALE	101.9	270	1300	B	LIC	125.77	113	12.8
KSCA	CA	GLENDALE	101.9	270	0	B	USE	126.09	113	13.1
KSCA	CA	GLENDALE	101.9	270	3000	B	CP	126.08	113	13.1
KSCA	CA	GLENDALE	101.9	270	4800	B	LIC	126.09	113	13.1
KGFM	CA	BAKERSFIELD	101.5	268	0	B	USE	133.63	113	20.6
KGFM	CA	BAKERSFIELD	101.5	268	6700	B	LIC	133.56	113	20.6
K272DT	CA	SANTA BARBARA	102.3	272	4	D	LIC	25.74	0	25.7
K272DT	CA	SANTA BARBARA	102.3	272	4	D	APP	25.74	0	25.7
NEW	CA	PORT HUENEME	102.1	271	250	D	APP	34.86	0	34.9
K272DI	CA	FILLMORE	102.3	272	10	D	LIC	35.53	0	35.5

Figure 2

**ComStudy 2 Path Profile**



**TX**

Lat: 34-22-21.5 N  
Lon: 119-25-13.3 W  
AMSL: 634 m  
Tower AGL: 15 m

**RX**

Lat: 34-23-55.4 N  
Lon: 119-31-02.2 W  
AMSL: 12 m  
Tower AGL: 9 m

**Profile Info**

Distance: 9.35 Km  
Bearing: 286.10 deg  
# of points: 200  
K value: 1.333  
Frequency: 100.0000  
Clearance: 0.6

**Losses**

Base Loss: 114.9 dB  
Fade Margin: N/A  
Diffraction: 0.0 dB  
Fresnel: 3.3 dB

Figure 3

