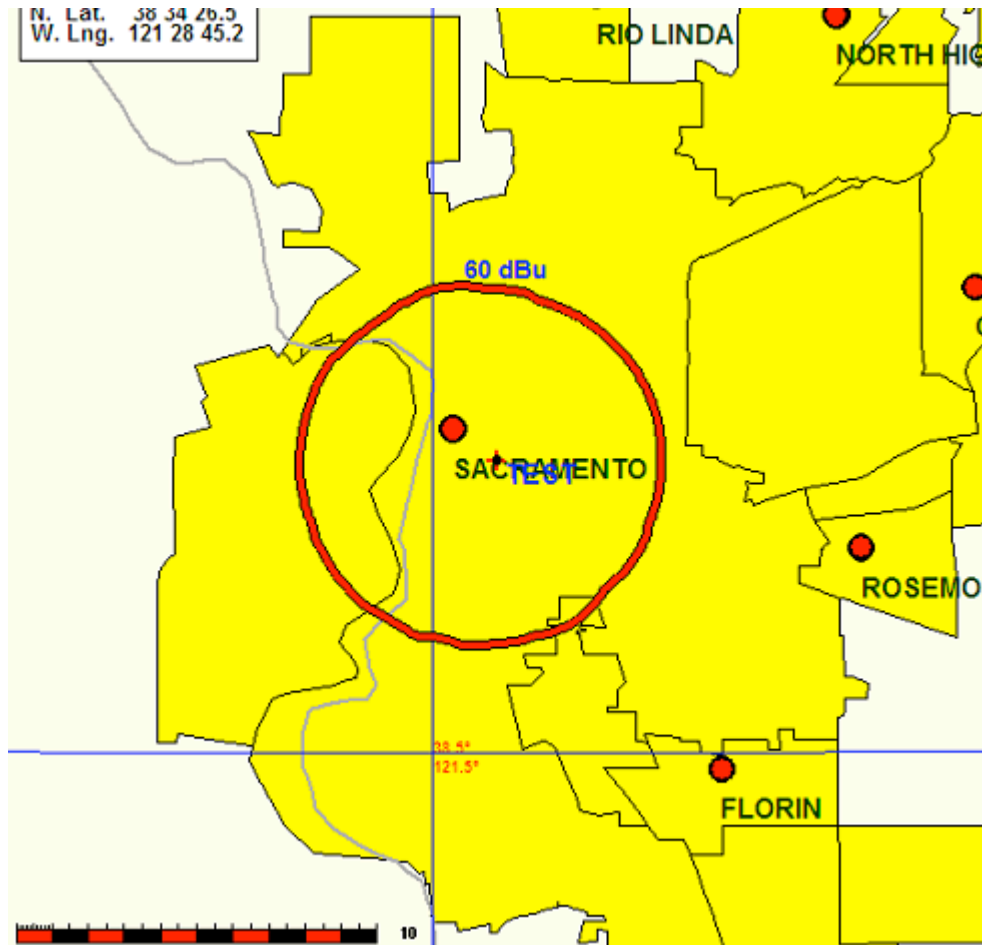


PROPOSED LPFM FACILITY, SACRAMENTO, CA

PROPOSAL

This application proposes the use of Channel 243 for Low Power FM, with the proposed parameters:

NAD 83	38 34 26.2 N 121 28 49.0 W
NAD 27	38 34 26.5 N 121 28 45.2 W
Elevation Ground:	6 m
Height Building:	24 m
Total Height to top of Mast	38.6 m
Total Height to COR (AGL):	36.6 m
Height from roof to COR:	12.6 m
AMSL	42.6 m
HAAT	33.7 m
WATTS	50
CHANNEL	243



SPACING

Snoqualmie Educational Radio Project

REFERENCE		DISPLAY DATES
38 34 26.5 N.	CLASS = L1	DATA 08-28-13
121 28 45.2 W.	Current Spacings to 3rd Adj.	SEARCH 09-30-13
----- Channel 243 - 96.5 MHz -----		

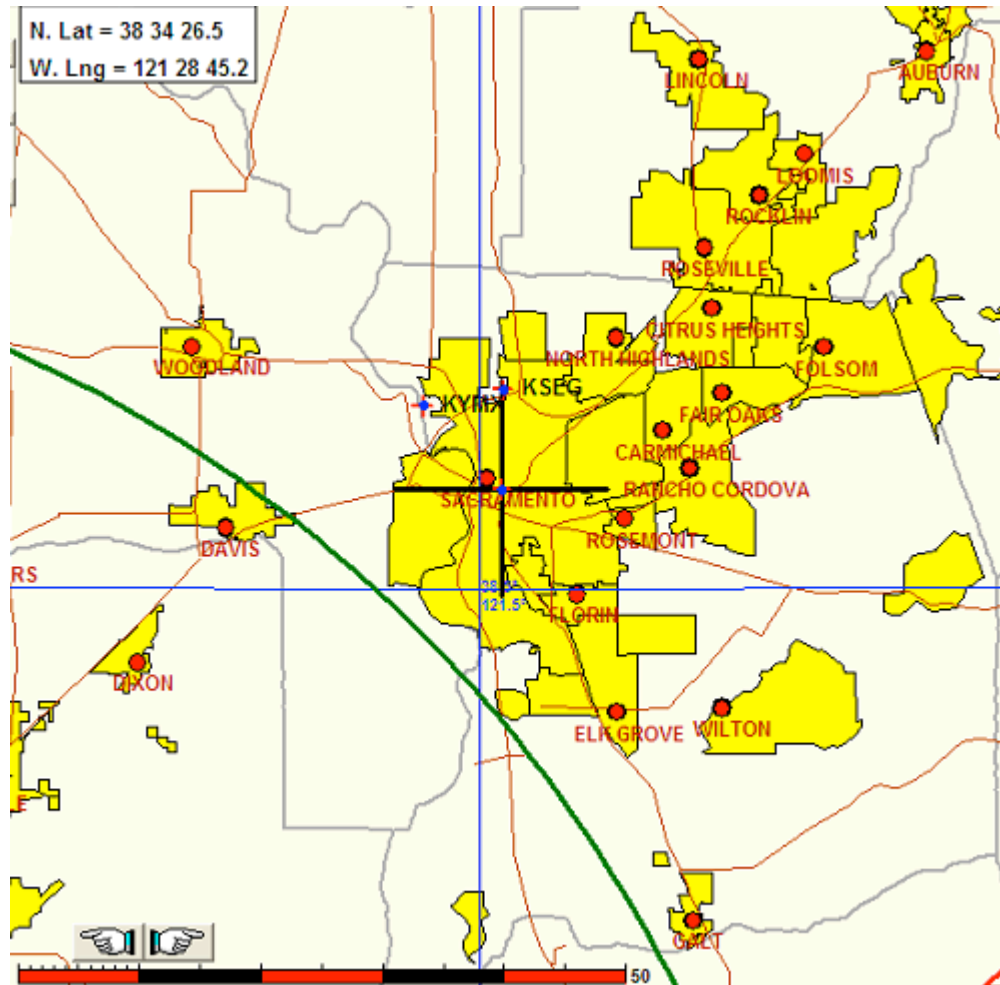
Call	Channel	Location	Azi	Dist	FCC	Margin
*KSEG	LIC 245B	Sacramento	CA	1.2	8.21	66.5 -58.3
*KYM	LIC 241B	Sacramento	CA	317.0	9.40	66.5 -57.1
KOIT	LIC 243B	San Francisco	CA	223.3	124.58	111.5 13.1

Reference station has protected zone issue:
All separation margins include rounding

NOTES:

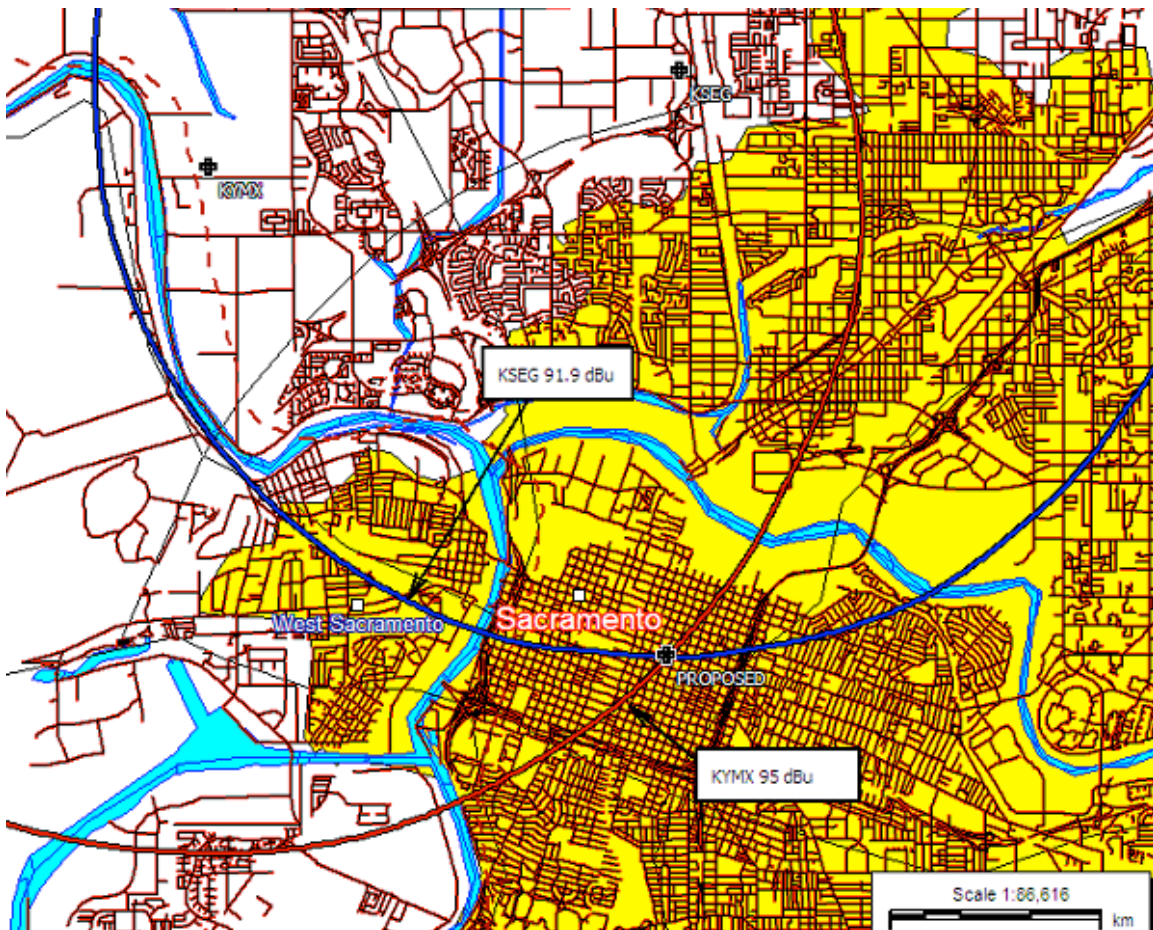
* KSEG and KYM 2nd ADJ - See 2nd adjacent spacing waiver request

SPACING MAP



SECOND ADJACENT WAIVER REQUEST

Applicant requests a waiver of the Second Adjacent minimum spacing requirements stated in §73.807 of the FCC rules using U/D no-population inference protocol. At the proposed facility site, KYMX SACRAMENTO CA CH 241B (Distance 9.5, 50 kW) has an estimated signal strength of 91.9 dBu, and KSEGSACRAMENTO CA 245B (Distance 8.2, 50 kW) has an estimated signal strength of 95 dBu. At a proposed 45 watts, the maximum interference radius around the proposed transmitter is thus 12.5 meters. Applicant proposes to locate 12.6 meters above the roof on an antenna mast. Since the interference zone does not reach the top floor, zero population is affected, thus passing second adjacent waiver request requirements.



NON-IONIZING ELECTROMAGNETIC RADIATION (NEIR) ANALYSIS

The Effective Radiated Power for proposed will be 50 watts, mounted on a tower in a rural area at 18 m AGL. 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"

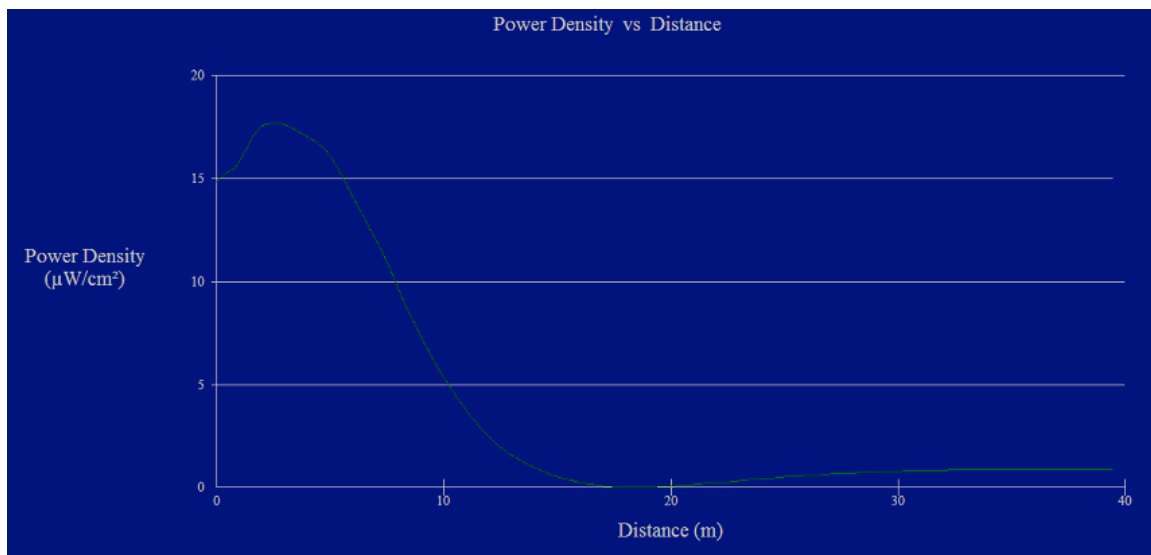
Vertical ERP (W): 50

Horizontal ERP (W): 50

Antenna Height (m): 12.6

Number of Elements: 2

Element Spacing: .5



Phelps-Dodge "Ring Stub" antenna was selected as a "worst case" emitter. Using these settings, the maximum predicted RF exposure for a human standing on the ground would be less than 17.7 $\mu\text{W}/\text{cm}^2$ at 2.8 m. This represents less than 8.9% of the FCC Maximum Permissible Exposure (MPE) of 200 $\mu\text{W}/\text{cm}^2$ for uncontrolled environments.

The antenna is on a mast on top of a penthouse roof which is inherently inclimbable. No other broadcast entity co-located on the roof. Facility is private property with limited roof access. If work on roof is required facility will be temporarily powered down.