

**LANCASTER EDUCATIONAL BROADCAST SERVICE  
KLQS-LP 97.5 FM SAN FERNANDO, CALIF  
FAC ID NO. 195731**

MINOR CHANGE OF LICENSED FACILITY (AMENDMENT)

PARAMETERS

Channel	248L1
New Location:	34° 19' 00.7" N 118° 22' 25.0" W -- NAD 83
Antenna AGL	6.7 m
Tower Total	6.7 m
Antenna Ground	2110 ft = 643 m (see Figure 1)
Antenna COR	649.7 m
HAAT	30 m (see Figure 2)
Power	67 w (100 w possible, but 67 w chosen for second-adjacent channel limitations)
Site Move Type:	LPFM Minor Change (see Figure 3)



Figure 1: Proposed Site

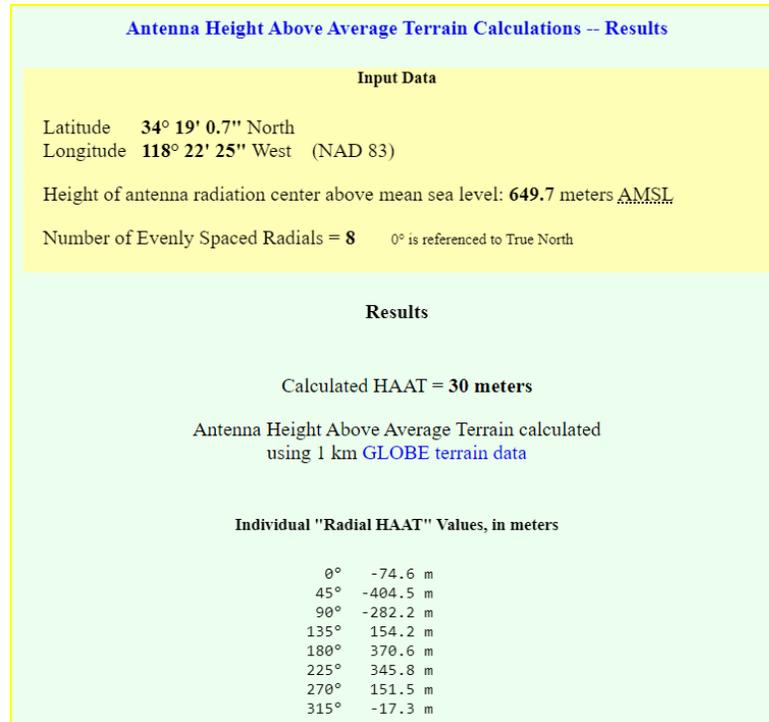
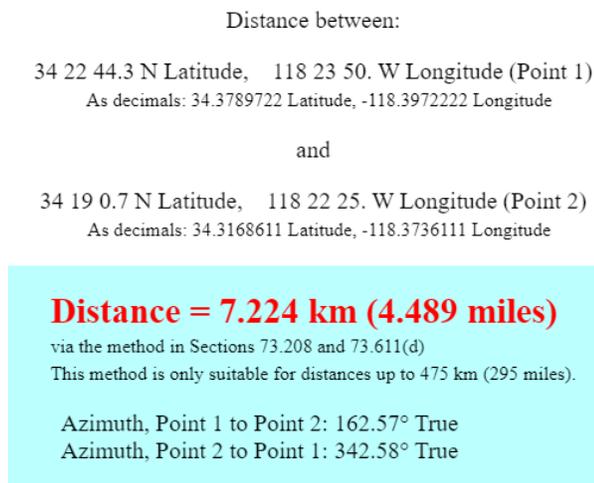


Figure 2: HAAT calculation from <https://www.fcc.gov/media/radio/haat-calculator>



To find the terminal coordinates given a bearing and a distance  
use the [Terminal Coordinates](#) function.

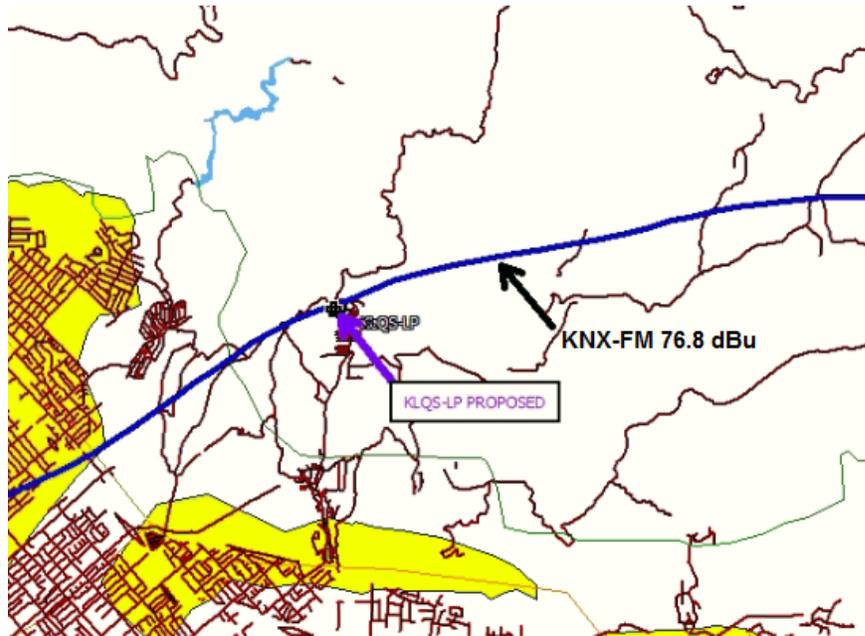
Figure 3: Per Section 73.870(a), minor change is < 11.2 km.



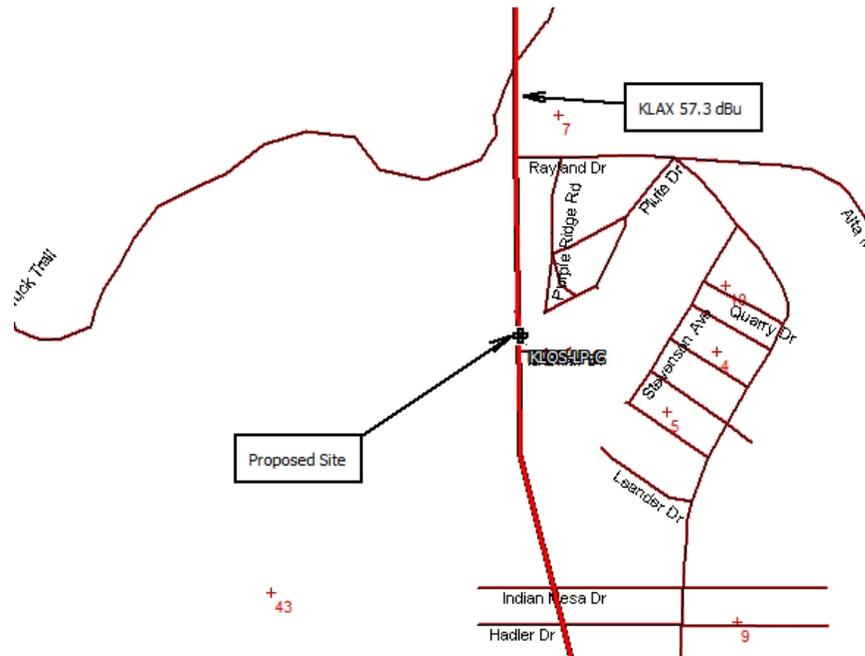
## SECOND ADJACENT WAIVER REQUEST

KLAX-FM and KNX-FM are the second adjacent channels the facility is short spaced to.

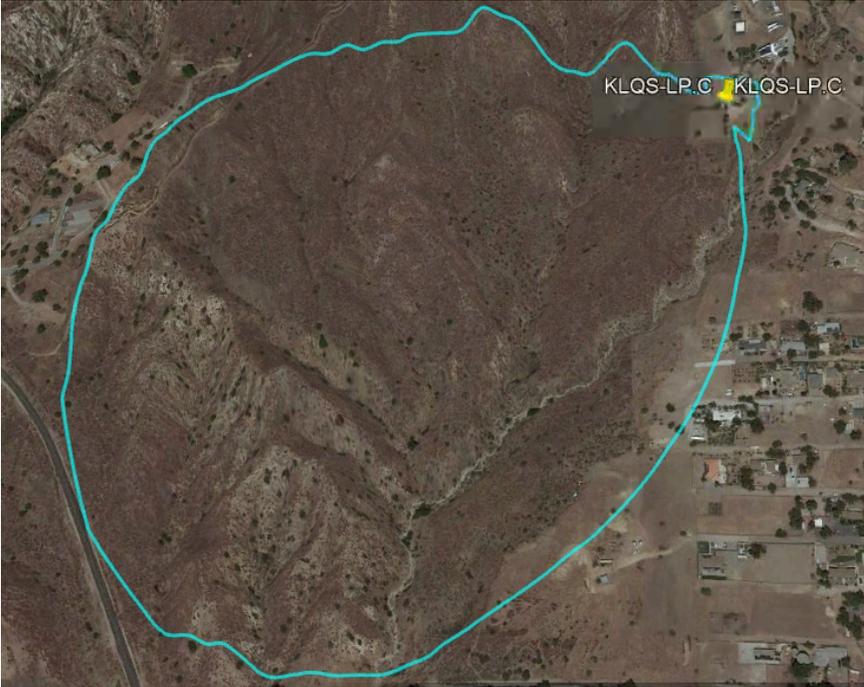
Regarding KNX-FM: At the proposed site, KNX-FM has a signal strength of 76.8 dBu (FCC).



Regarding KALX-FM: At the proposed site, KALX-FM has a signal strength of 57.3 dBu (FCC)



The value of 57.3 dBu (the lesser value between KNX and KLAX) will then be used to determine interference compliance. Interference will occur when the KLAX signal strength's interfering signal exceeds the desired signal by 40 dbu. So the area of predicted interference would then be bounded by the 97.3 dBu contour. To assure compliance, a directional antenna is proposed, with the 97.3 dBu contour plotted below.

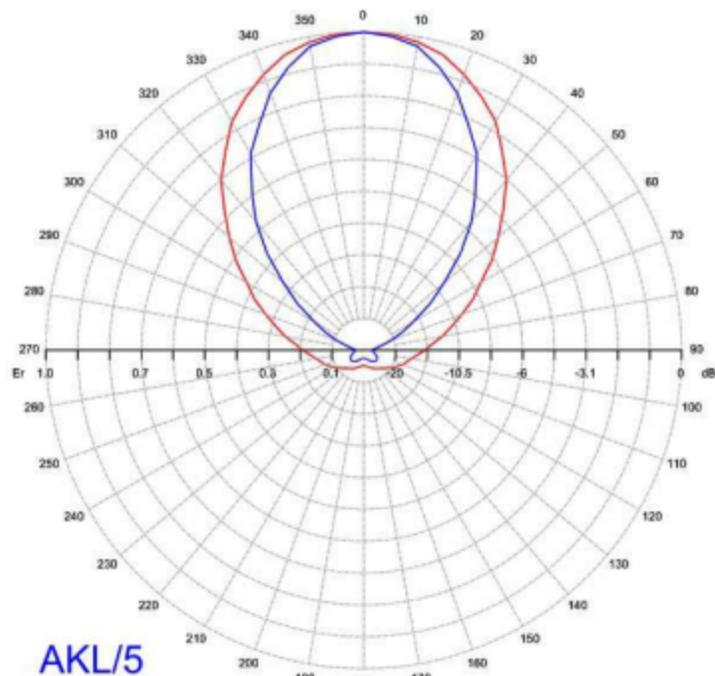


(black square in back of the building is a pool cover)

Due to zero population within this radiation radius, as demonstrated in the aerial shot, this meets the "Living Way" Criteria to qualify for a Waiver of 47 C.F.R. Section 73.807.

Applicant respectfully requests a "second adjacent channel waiver" with regards to Section 47 C.F.R. Section 73.807 of the FCC rules based upon the "Living Way" precedence (Living Way Ministries, Inc., Memorandum Opinion and Order, 17 FCC Red 17054, 17056, ¶ 5 (2002), recon. denied 23 FCC Red 15070 (2008)).

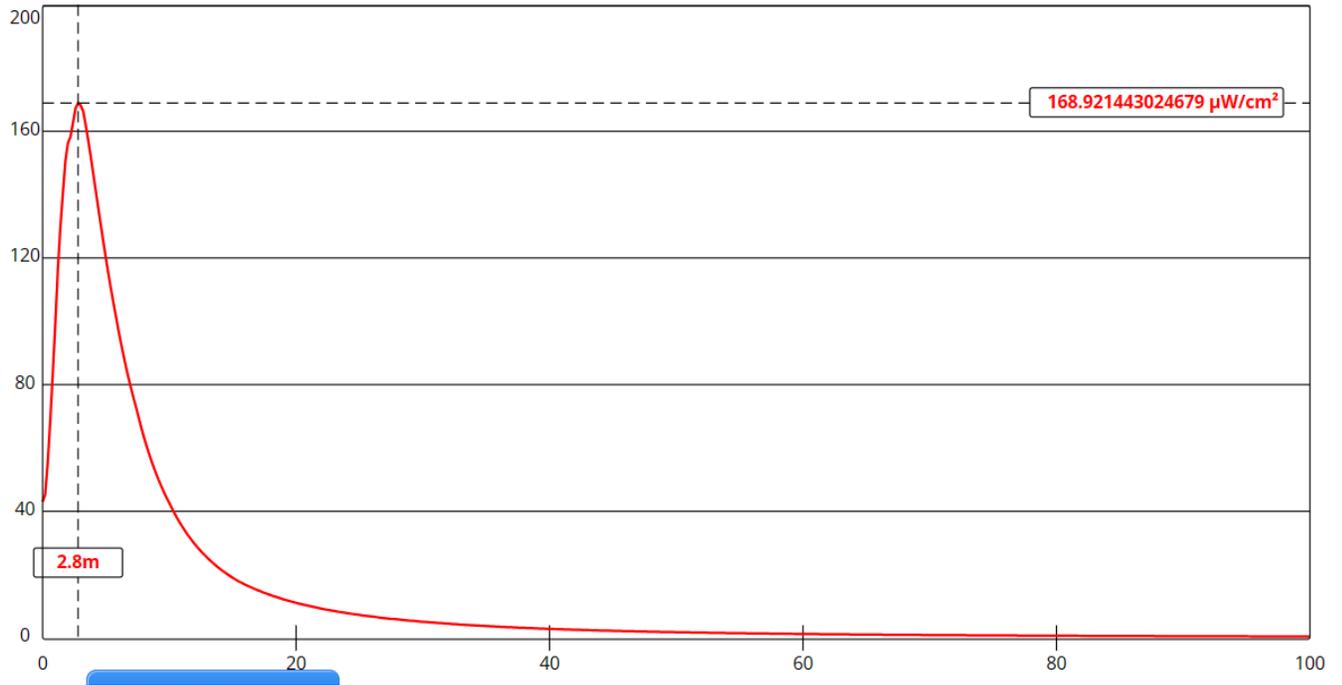
The antenna pattern is demonstrated below -- antenna model AKL/5 by Label Italy. Blue pattern demonstrated the V-pol pattern from their brochure.



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## ENVIRONMENTAL COMPLIANCE



An opposed V dipole was used to gauge the maximum RF for the proposal in OET program FM Model for Windows adapted to Javascript (67 watts, 1-bay, H+V-pol). The maximum predicted RF exposure was  $168.9 \mu\text{W}/\text{cm}^2$  at 3 m away for the level of a 2 m person standing by the pole, 85% of the FCC Maximum Permissible Exposure (MPR) for  $200 \mu\text{W}/\text{cm}^2$  for uncontrolled environments.

The site will have a sign regarding RF exposure hazards to tower climbers posted. If any work needs to be done around the structure the RF power will be temporarily shut off.