

# TV6 Calculation for Temecula, CA

TV6 Call sign:  Fcc Search:

City:  State:

COR AMSL (m):  HAAT(m):

Latitude:  Longitude:

TV ERP (kW):

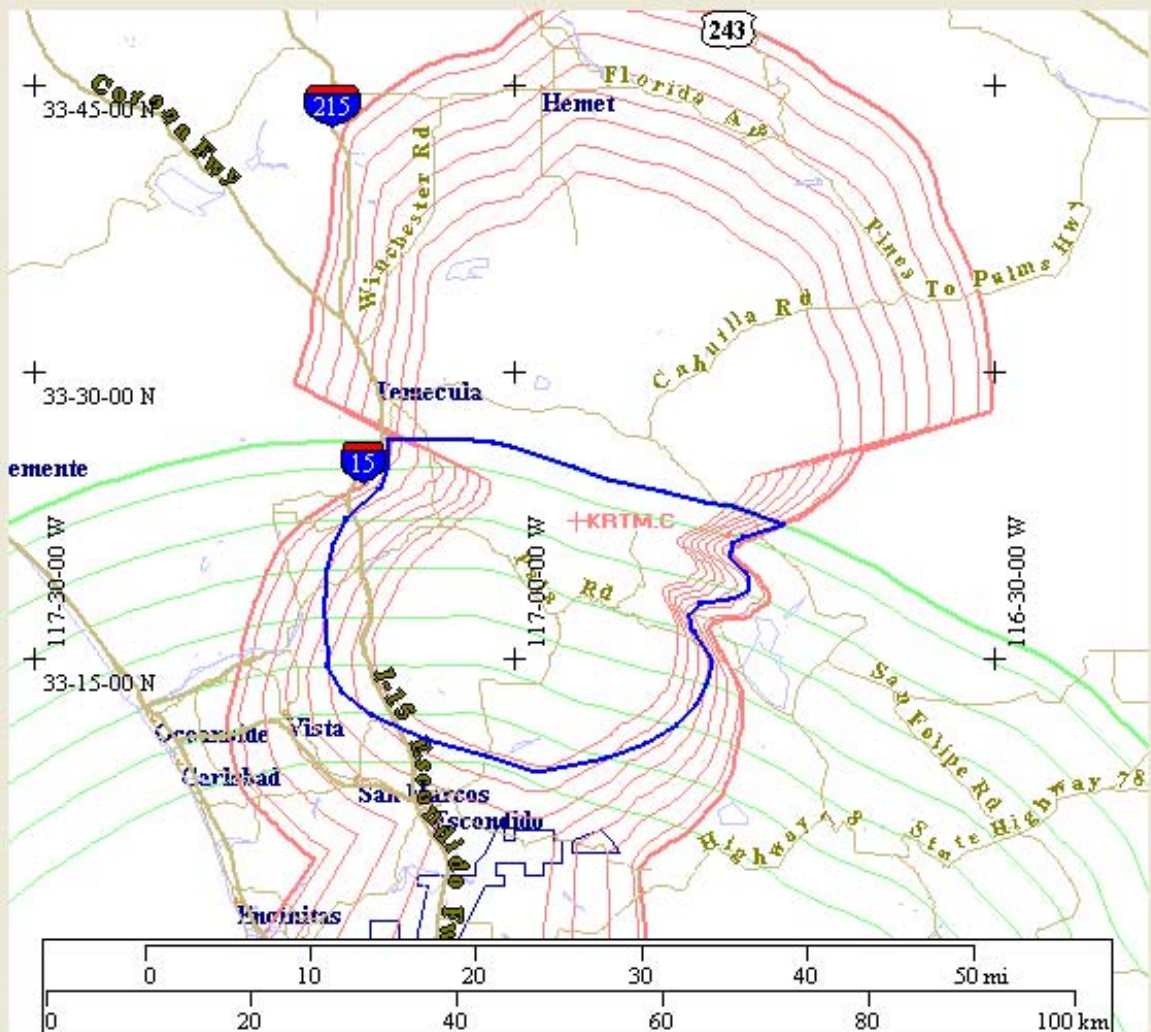
FM Horizontal ERP:

☒ Outside City Of 50k

47  60  2  TV FM

Plot Scale:  ☒ DLG ☐ AJPI ☒ TIGER

☐ Hide Zeros ☒ Plot All Centroids ☐ Plot Inside Centroid Counts ☐ Plot All Centroid Counts ☒ Plot Contours ☐ Print All Centroids to  dBu ☐ Print Centroids ☒ Print TV Contour Table



## Channel Six TV Protection Study

XETV	06	99.250kW ERP	369.0M COR AMSL	258.0M HAAT	Lat. 323002	Lon. 1170231
KRTM.C	205	0.270kW ERP	1757.0M COR AMSL	932.0M HAAT	Lat. 332209	Lon. 1165604

Distance from TV to FM 96.8520km Azi 186.0degr Rev Azi 6.0 degr  
Cutoff radius for channel 205 is 225 km

The FM horizontal polarization component is 0.270 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is  $(P_v/40 + P_h)$  0.2768kW

The TV6 signal strength at the FM transmit site is 48.920 dBu  
For F centroids (centroids where the TV6 signal strength is less than 68 dBu and  
which are also  $\pm 70$  degrees from line from the FM station to the TV station)  
a 6 dB bonus is added to the allowable FM signal.

TV Contour	Undesired/Desired Ratio	Total	Directional Total
47	12.1	59.0	65.0
48	11.6	59.6	65.6
50	10.8	60.8	66.8
52	9.9	61.9	67.9
54	9.0	63.0	69.0
56	8.1	64.0	70.0
58	7.2	65.2	71.2
60	6.4	66.4	72.4

Population in affected area 0

2000 Block Centroids used