

# TV6 Calculation for Sarcoxie, MO

TV6 Call sign  
KOTV

Fcc Search  
29.3 dBu

City  
Tulsa

State  
OK

COR AMSL (m)  
765

HAAT(m)  
573

Latitude  
360115

Longitude  
954032

+

TV ERP (kW)  
100.000

FM Horizontal ERP  
31.000

☒ Outside City Of 50k

47

47

1

TV

FM

Plot Scale  
125

☒ DLG ☐ AJPI

☒ Hide Zeros

☒ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to -3 dBu

☐ Print Centroids

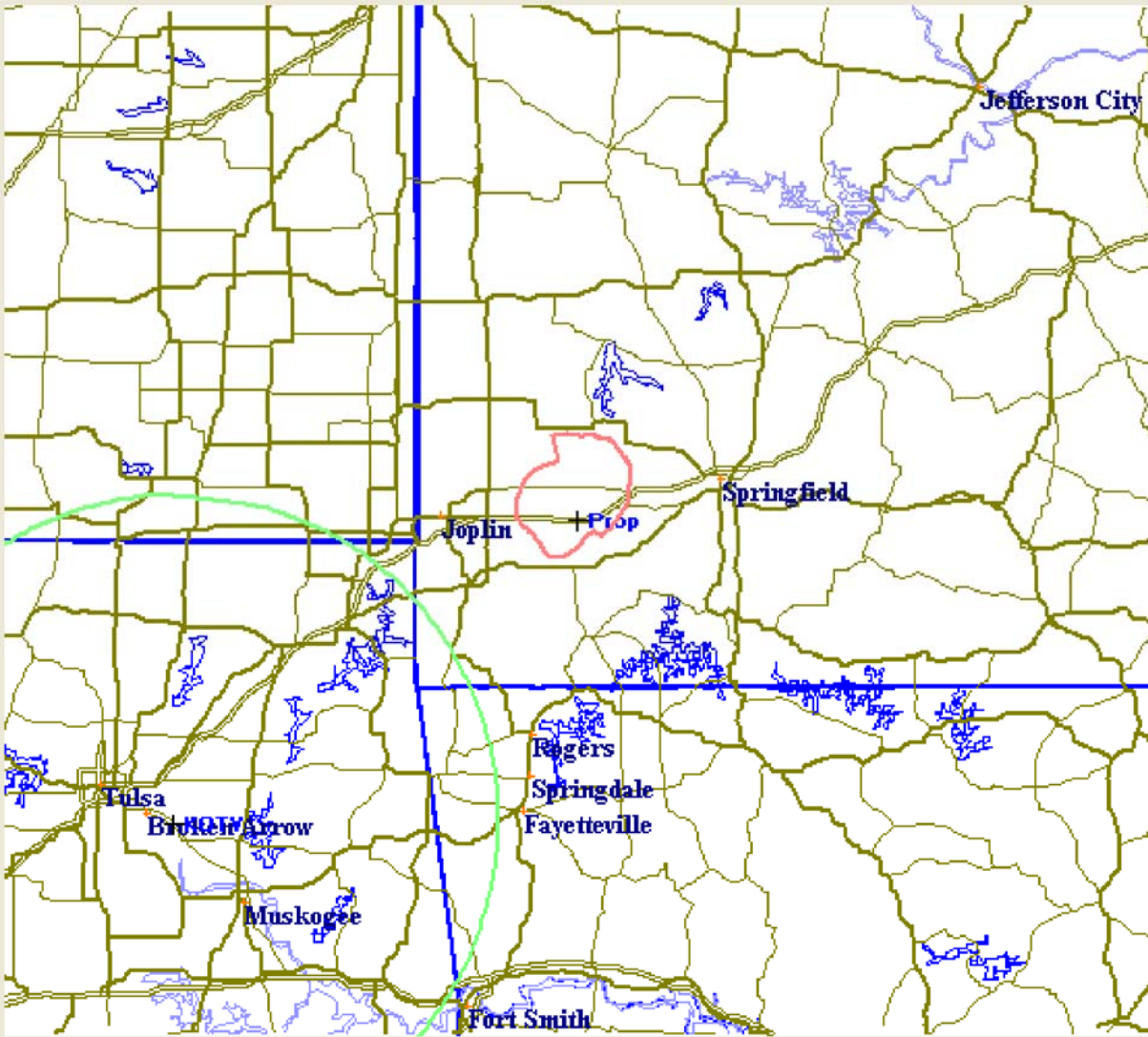
☒ Print TV Contour Table

Comp

Copy F

PrintText

Print Form



Channel Six TV Protection Study						
KOTV	06	100.000kW ERP	765.0M COR AMSL	573.0M HAAT	Lat. 360115	Lon. 954032
Prop	208	31.000kW ERP	474.0M COR AMSL	99.9M HAAT	Lat. 370434	Lon. 935527
Distance from TV to FM 195.7126km    Azi 233.2degr    Rev Azi 53.2 degr						
Cutoff radius for channel 208 is 196 km						
The FM horizontal polarization component is 31.000 kW, and the area of just perceptible interference does not intersect a city of 50k, so the effective ERP is (Pv/40+Ph) 31.7750kW						
The TV6 signal strength at the FM transmit site is 29.3 dBu This strength is outside the 68 dBu Grade A contour, allowing a 6 dB bonus to be applied to the allowable FM signal to F centroids (centroids in the angles between the FM station and the TV station)						
TV Contour	Undesired/Desired Ratio	Total	Directional Total			
47	20.4	67.3	73.3			
Population in affected area						0