

# TV6 Calculation for Wanatah, IN

TV6 Call sign  
WRTV

Fcc Search  
29.1 dBu

City  
Indianapolis

State  
IN

COR AMSL (m)  
530

HAAT(m)  
279

Latitude  
395357

Longitude  
861204

+

TV ERP (kW)  
100.000

FM Horizontal ERP  
15

☒ Outside City Of 50k

47

47

1

TV

FM

Plot Scale  
150

☒ 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

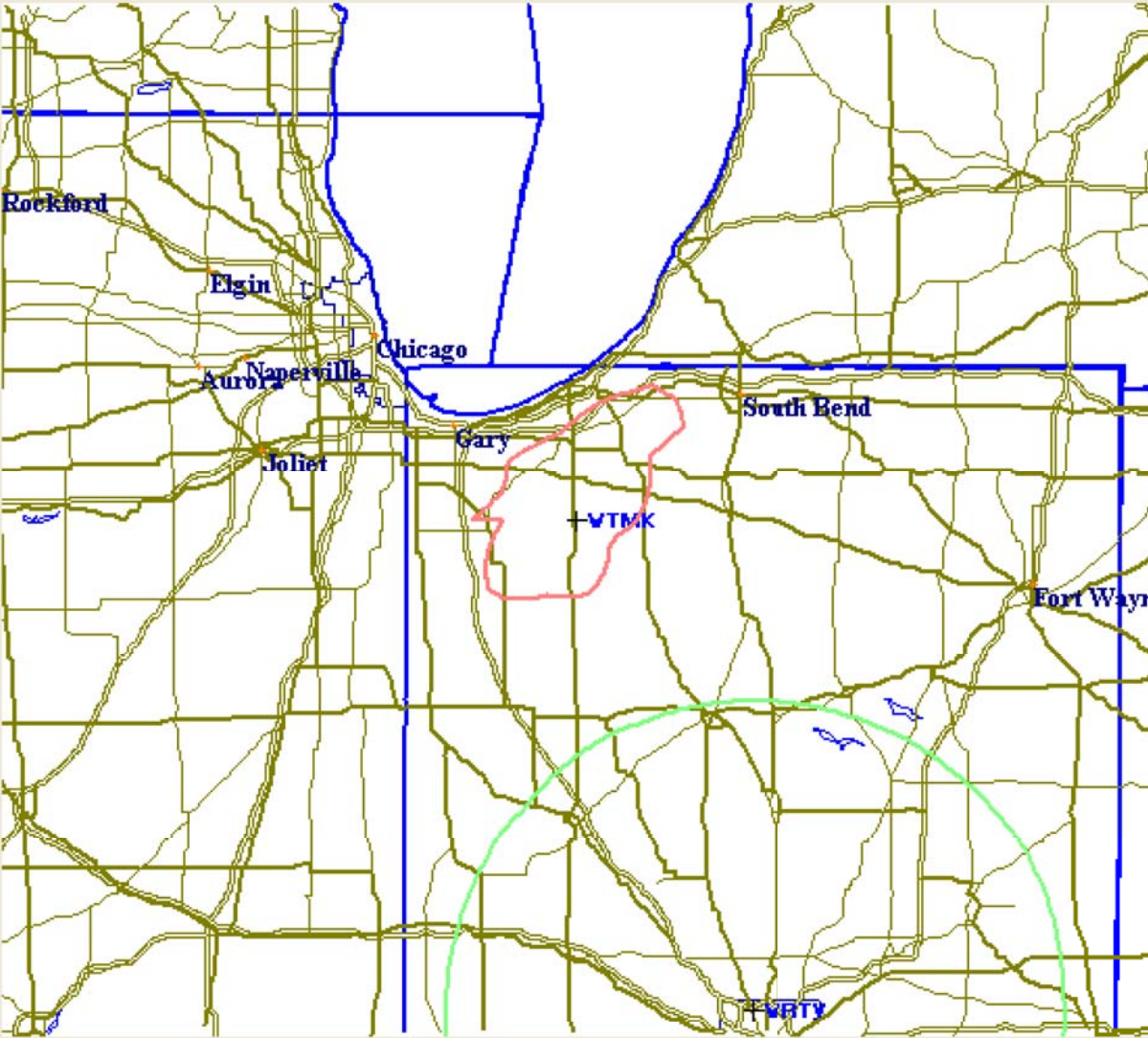
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Channel Six TV Protection Study						
WRTV	06	100.000kW ERP	530.0M COR AMSL	279.0M HAAT	Lat. 395357	Lon. 861204
VTMK	203	15.000kW ERP	280.0M COR AMSL	74.7M HAAT	Lat. 411916	Lon. 865258
Distance from TV to FM 168.1079km Azi 159.9degr Rev Azi 339.9 degr						
Cutoff radius for channel 203 is 246 km						
The FM horizontal polarization component is 15.000 kW,						
and the area of just perceptible interference does not intersect a city of 50k,						
so the effective ERP is (Pv/40+Ph) 15.3750kW						
The TV6 signal strength at the FM transmit site is 29.1 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		6.5	53.5	59.5		
Population in affected area						0