

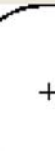
## TV6 Calculation for Wanatah, IN

TV6 Call sign:  Fcc Search:

City:  State:

COR AMSL (m):  HAAT(m):

Latitude:  Longitude:

 TV ERP (kW):

FM Horizontal ERP:

☒ Outside City Of 50k

TV  
FM

Plot Scale:  ☒ DLG ☐ AJPL

☒ Hide Zeros

☒ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

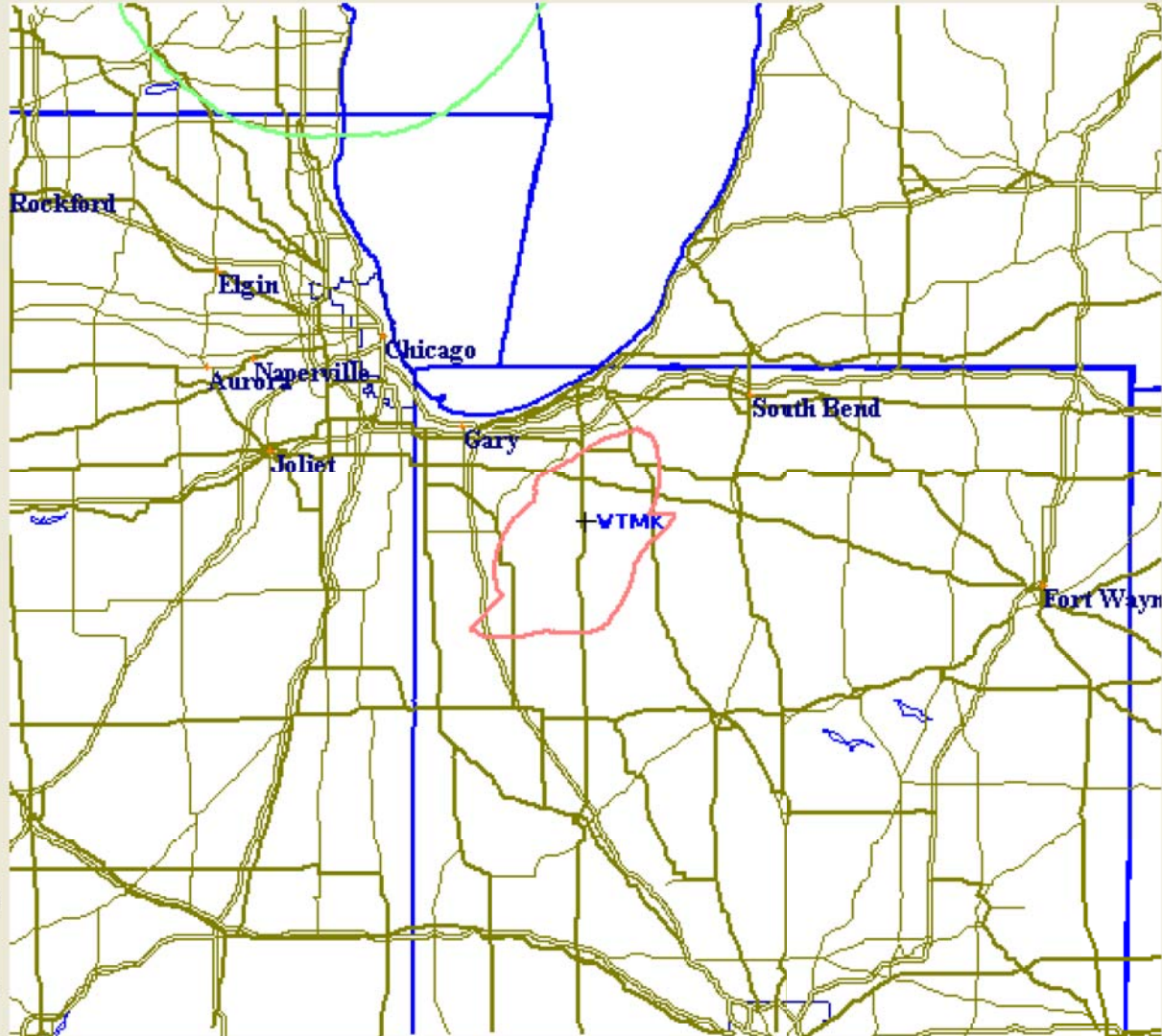
☒ Plot Contours

☐ Print All Centroids to  dBu

☐ Print Centroids

☒ Print TV Contour Table

Comp:  Copy:  Print:  Form:



## Channel Six TV Protection Study

WITI	06	34.600kW	ERP	319.0M	COR AMSL	122.7M	H&A T	Lat.	430526	Lon.	875350
WTMK	203	15.000kW	ERP	280.0M	COR AMSL	74.7M	H&A T	Lat.	411916	Lon.	865258

Distance from TV to FM 213.6538km    Azi 336.9degr    Rev Azi 156.9 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  $(P_v/40+P_h)$  15.3750kW

The TV6 signal strength at the FM transmit site is 14.8 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
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