

TV6 Calculation for Constantine, MI

TV6 Call sign
WRTV

Fcc Search
19.8 dBu

City
Indianapolis

State
IN

COR AMSL (m)
531

HAAT(m)
279

Latitude
395357

Longitude
861204

+

TV ERP (kW)
100.000

FM Horizontal ERP
9.7

☐ Outside City Of 50k

47

47

1

TV

FM

Plot Scale
100

☒ DLG ☐ AJPI

☒ Hide Zeros

☐ Plot All Centroids

☐ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to 0 dBu

☐ Print Centroids

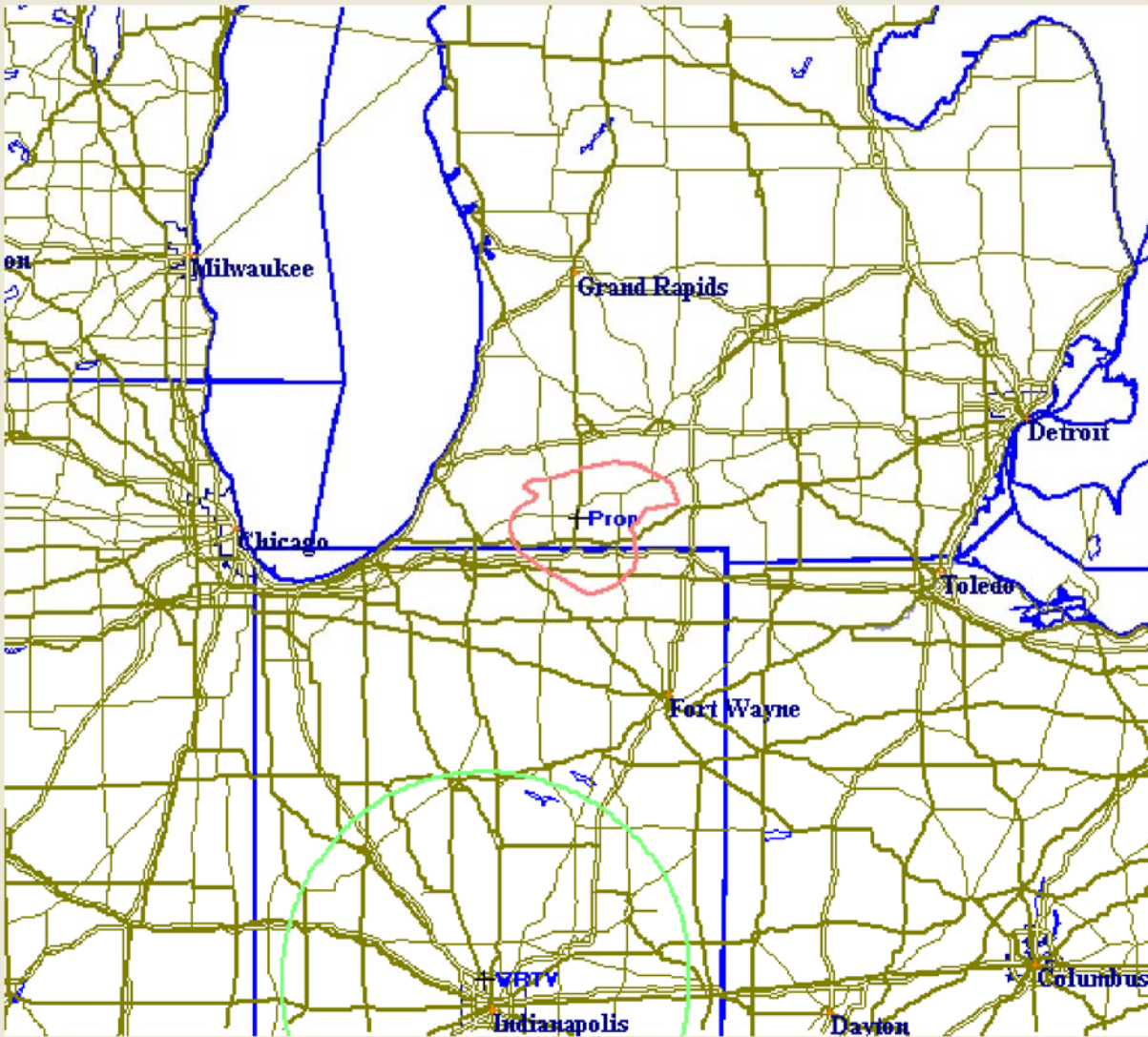
☒ Print TV Contour Table

Comp

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PrintText

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Channel Six TV Protection Study						
WRTV	06	100.000kW ERP	531.0M COR AMSL	279.0M HAAT	Lat. 395357	Lon. 861204
Prop	203	9.700kW ERP	343.0M COR AMSL	89.0M HAAT	Lat. 415337	Lon. 853953
Distance from TV to FM 226.0489km Azi 191.5degr Rev Azi 11.5 degr						
Cutoff radius for channel 203 is 246 km						
The FM horizontal polarization component is 9.700 kW,						
and the area of just perceptible interference does intersect a city of 50k,						
so the effective ERP is (Pw/10+Ph) 10.6700kW						
The TV6 signal strength at the FM transmit site is 19.8 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