

# TV6 Calculation for Rockport, MA

TV6 Call sign  
WCSH

Fcc Search  
44.7 dBu

City  
Portland


State  
ME

COR AMSL (m)  
763

HAAT(m)  
610

Latitude  
435130

Longitude  
704241



TV ERP (kW)  
100.000

FM Horizontal ERP  
.8

☒ 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

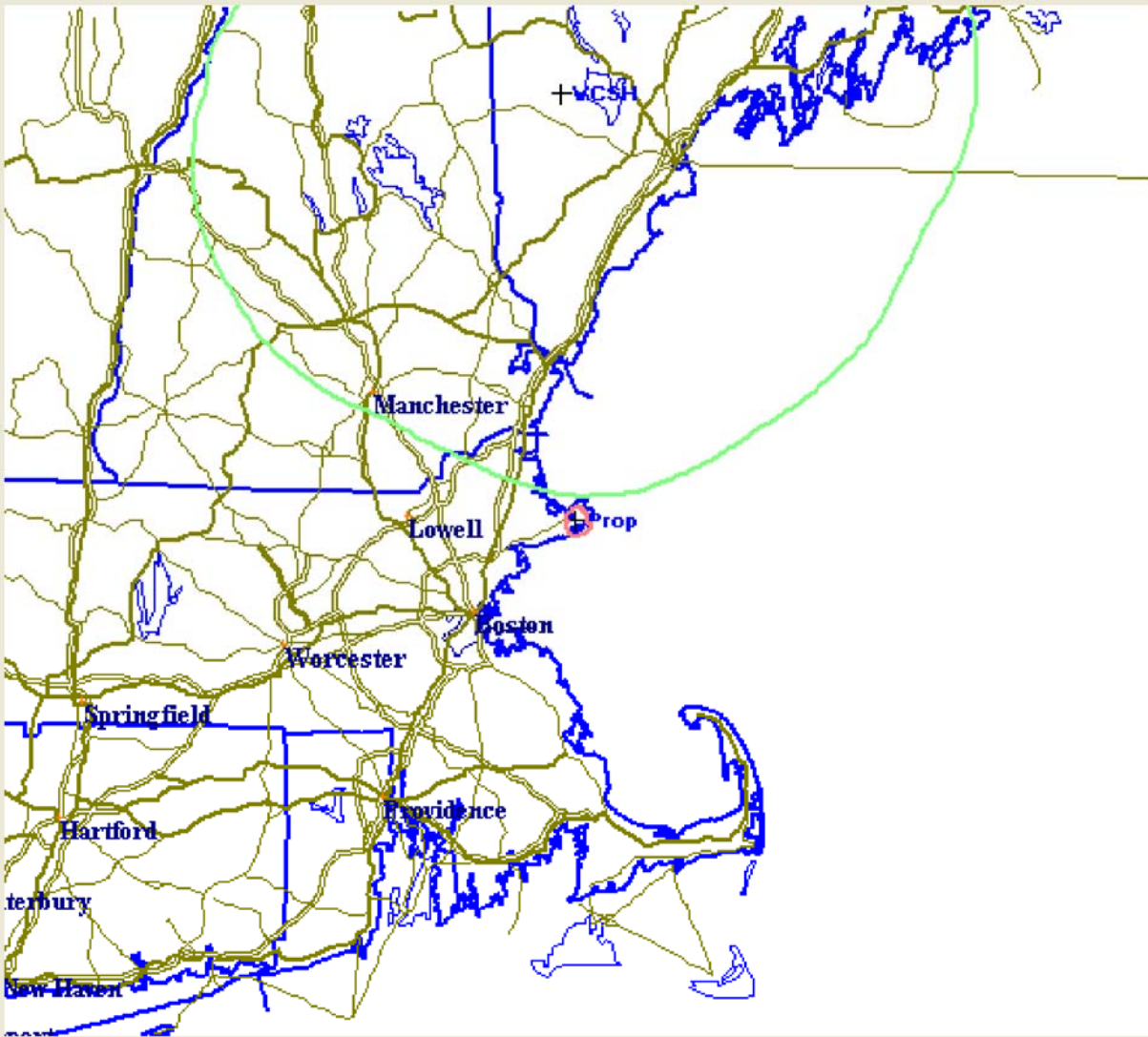
Comp

COPY F

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PrintText

Print Form



## Channel Six TV Protection Study

WCSH	06	100.000kW ERP	763.0M COR AMSL	610.0M HAAT	Lat. 435130	Lon. 704241
Prop	218	0.800kW ERP	92.0M COR AMSL	87.0M HAAT	Lat. 423728	Lon. 703915

Distance from TV to FM 137.1593km    Azi 358.1degr    Rev Azi 178.1 degr  
Cutoff radius for channel 218 is 166 km

The FM horizontal polarization component is    0.800 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is (Pw/40+Ph) 0.8200kW

The TV6 signal strength at the FM transmit site is    44.7 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	32.5	79.5	85.5

Population in affected area    0