

TV6 Calculation for Fryeburg, ME

TV6 Call sign
WCSH

Fcc Search
74.7 dBu

City
Portland

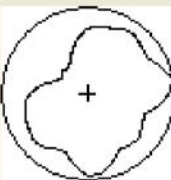
State
ME

COR AMSL (m)
763

HAAT(m)
610

Latitude
435130

Longitude
704241



TV ERP (kW)
100.000

FM Horizontal ERP
2.900

☒ Outside City Of 50k

72

77

1

TV

FM

Plot Scale
2000

☒ 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

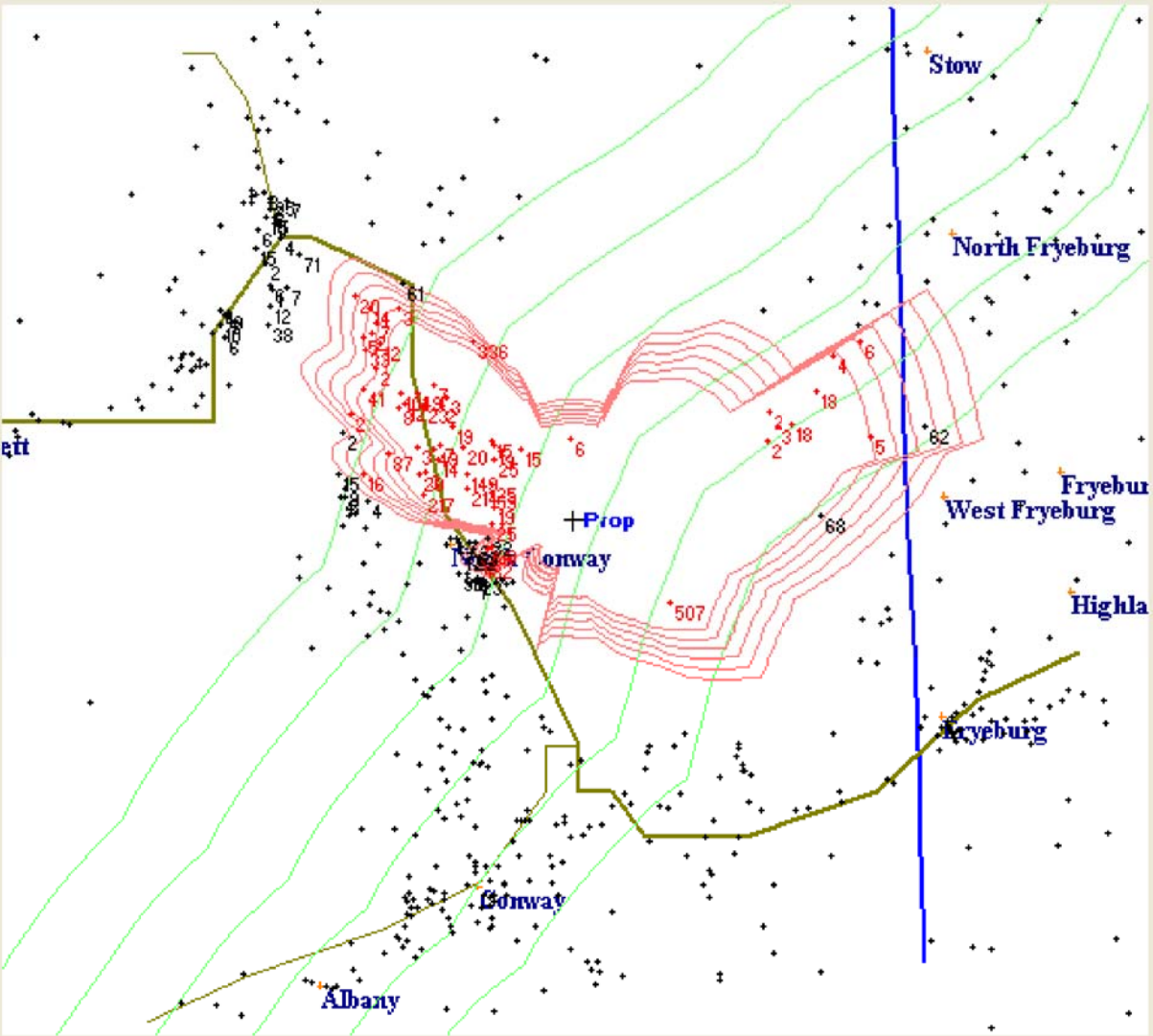
Comp

Copv F

Copv I

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	219	2.900kW ERP	531.0M COR AMSL	252.0M HAAT	Lat. 440333	Lon. 710530

Distance from TV to FM 37.8098km Azi 126.2degr Rev Azi 306.2 degr
Cutoff radius for channel 219 is 159 km

The FM horizontal polarization component is 2.900 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is (Pv/40+Ph) 2.9725kW

The TV6 signal strength at the FM transmit site is 74.7 dBu
This strength is inside the 68 dBu Grade A contour,
preventing 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
72	14.4	86.4	92.4
73	14.2	87.2	93.2
74	14.1	88.0	94.0
75	13.9	88.9	94.9
76	13.7	89.7	95.7
77	13.6	90.5	96.5

Population in affected area 2552