



# Media Systems

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## **Geographic Restriction Waiver Based on Terrain Shielding**

The Auction 81 announcement "SCHEDULING OF LIMITED LOW POWER TELEVISION/TELEVISION TRANSLATOR/CLASS A TELEVISION AUCTION FILING WINDOW FROM JULY 31 THROUGH AUGUST 4, 2000" stated:

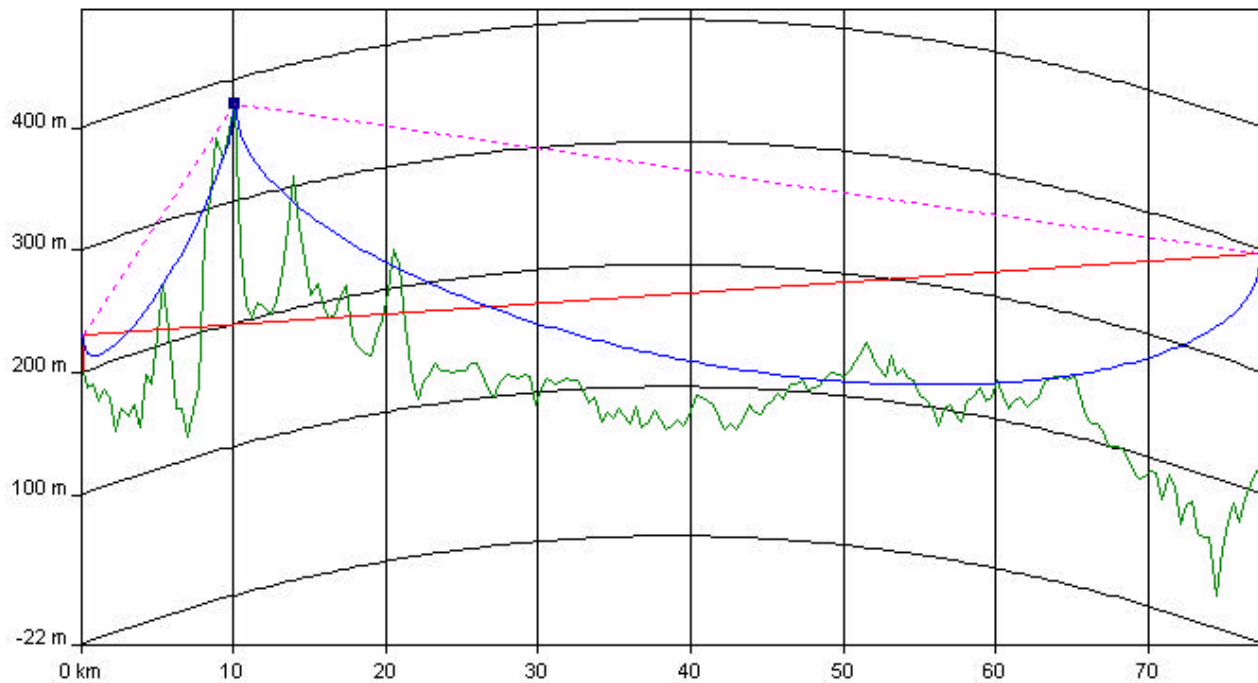
"This auction filing window is subject to geographic restrictions on the filing of applications for new station construction permits and for major changes in existing facilities."

"Notwithstanding the above, the Commission will consider requests for waiver of the geographic restrictions based on terrain shielding." "Requests for terrain-related waivers, which will be filed subsequently at the direction of the Commission, must be supported by an appropriate number of profiles showing the terrain between the proposed community of service and the applicable TV market cities, indicating that the signals of full-service stations in these cities cannot be directly received in the proposed community."

Due to terrain shielding, we are requesting waiver of the geographic restriction to the Washington DC market. Since the stations are spread out in the market, a profile from Clarks Corner, VA to each one is attached. As can be seen, there is clearly terrain blockage between Clarks Corner, VA and each of the Washington DC stations, therefore, none of the Washington DC stations can be directly received in Clarks Corner and the proposed application is grantable.

Sincerely  
Richard C Goetz  
President  
R & L Media Systems

### ComStudy 2 Path Profile



#### Clarks Corner

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

#### WRC-TV

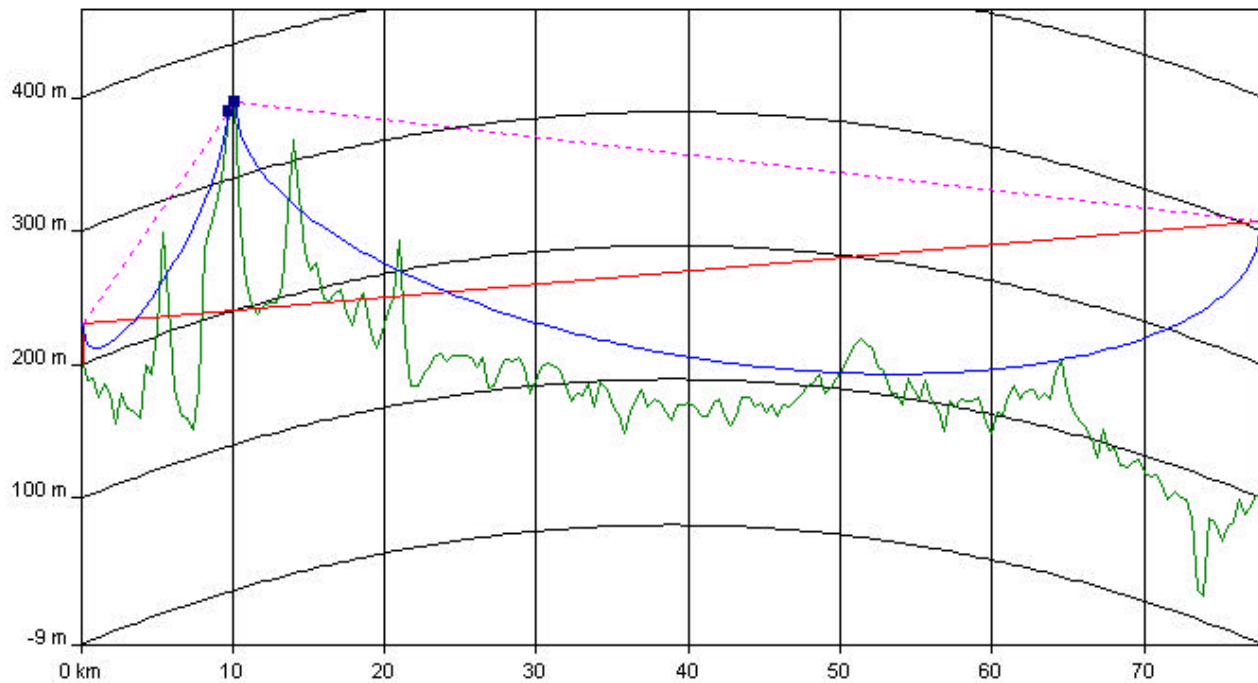
Lat: 38-56-24.0 N  
 Lon: 77-04-54.0 W  
 AMSL: 120 m  
 Tower AGL: 177 m

#### Profile Info

Distance: 77.48 Km  
 Bearing: 75.66 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 74.1825  
 Clearance: 0.6

#### Losses

Base Loss: 119.8 dB  
 Fade Margin: 15.7 dB  
 Diffraction: 35.9 dB  
 Fresnel: 5.6 dB

**ComStudy 2 Path Profile****Clarks Corner**

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

**WTTG**

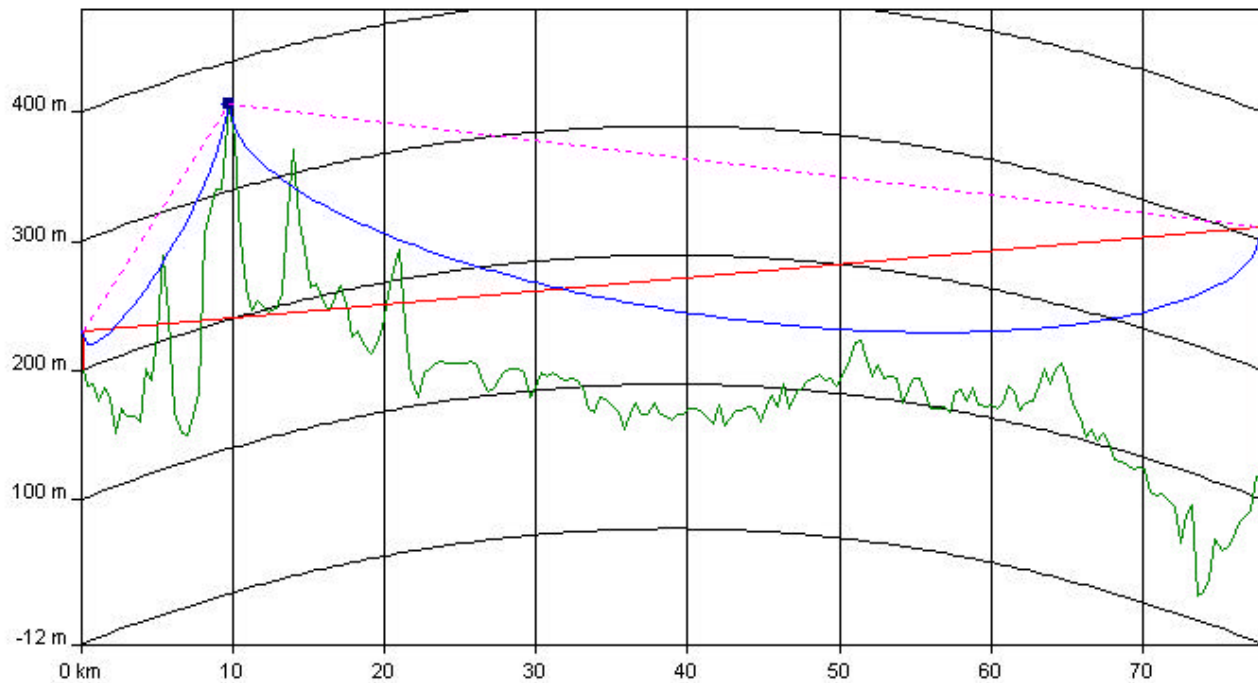
Lat: 38-57-22.1 N  
 Lon: 77-04-59.1 W  
 AMSL: 102 m  
 Tower AGL: 205 m

**Profile Info**

Distance: 77.81 Km  
 Bearing: 74.35 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 79.1825  
 Clearance: 0.6

**Losses**

Base Loss: 118.6 dB  
 Fade Margin: 33.2 dB  
 Diffraction: 19.7 dB  
 Fresnel: 5.6 dB

**ComStudy 2 Path Profile****Clarks Corner**

Lat: 38-46-14.0 N  
Lon: 77-56-59.0 W  
AMSL: 201 m  
Tower AGL: 30 m

**WJLA-TV**

Lat: 38-57-01.0 N  
Lon: 77-04-47.0 W  
AMSL: 118 m  
Tower AGL: 193 m

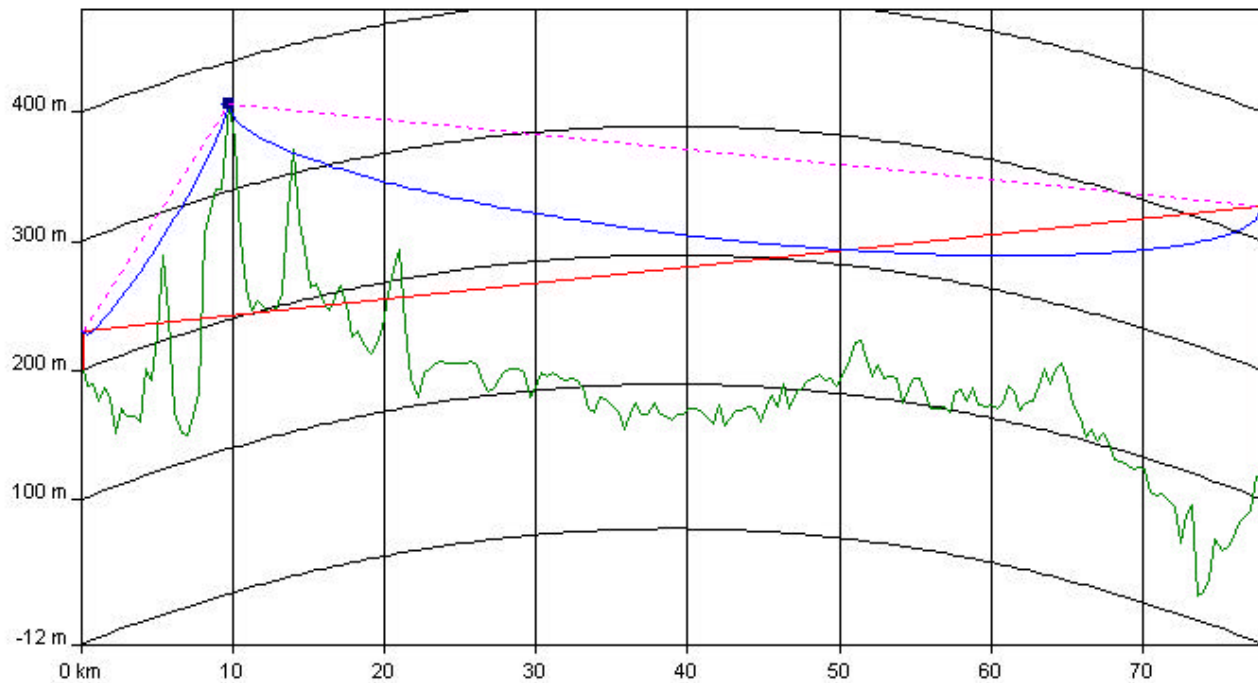
**Profile Info**

Distance: 77.92 Km  
Bearing: 74.87 deg  
# of points: 200  
K value: 1.333  
Frequency: 128.1925  
Clearance: 0.6

**Losses**

Base Loss: 119.1 dB  
Fade Margin: 20.1 dB  
Diffraction: 37.7 dB  
Fresnel: 0.0 dB

### ComStudy 2 Path Profile



#### Clarks Corner

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

#### WUSA-DT

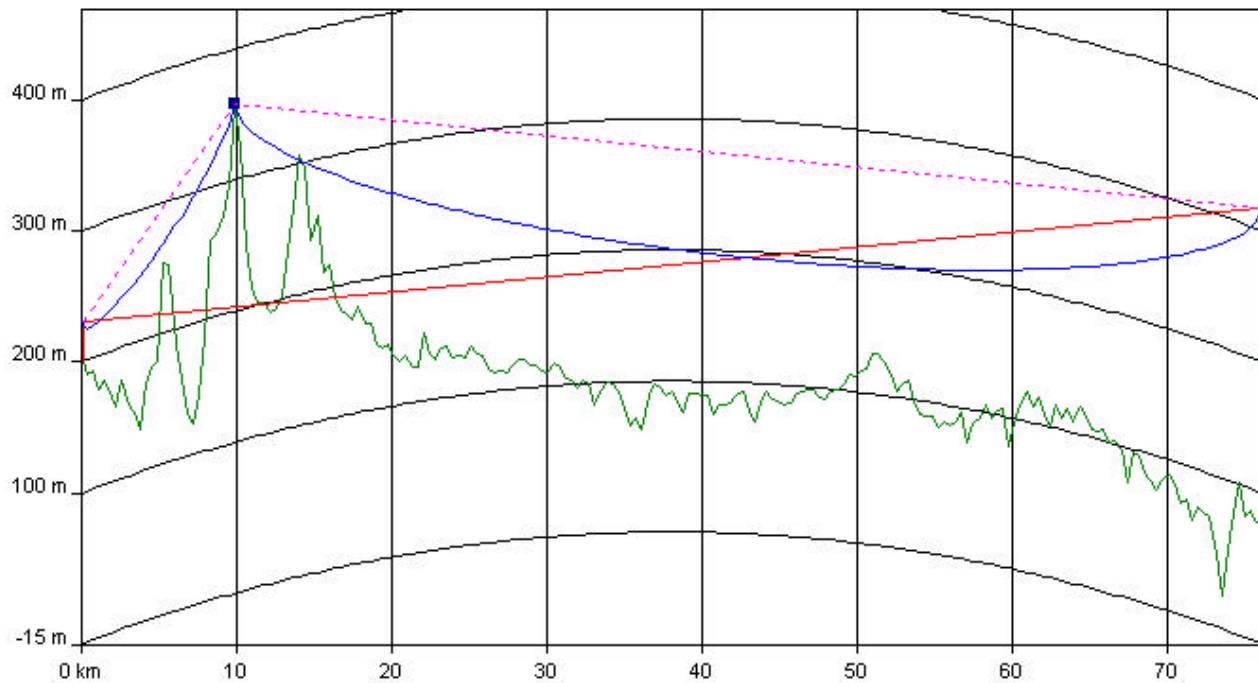
Lat: 38-57-01.0 N  
 Lon: 77-04-47.0 W  
 AMSL: 118 m  
 Tower AGL: 209 m

#### Profile Info

Distance: 77.92 Km  
 Bearing: 74.87 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 414.6875  
 Clearance: 0.6

#### Losses

Base Loss: 122.7 dB  
 Fade Margin: 12.5 dB  
 Diffraction: 41.8 dB  
 Fresnel: 0.0 dB

**ComStudy 2 Path Profile****Clarks Corner**

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

**WDCA**

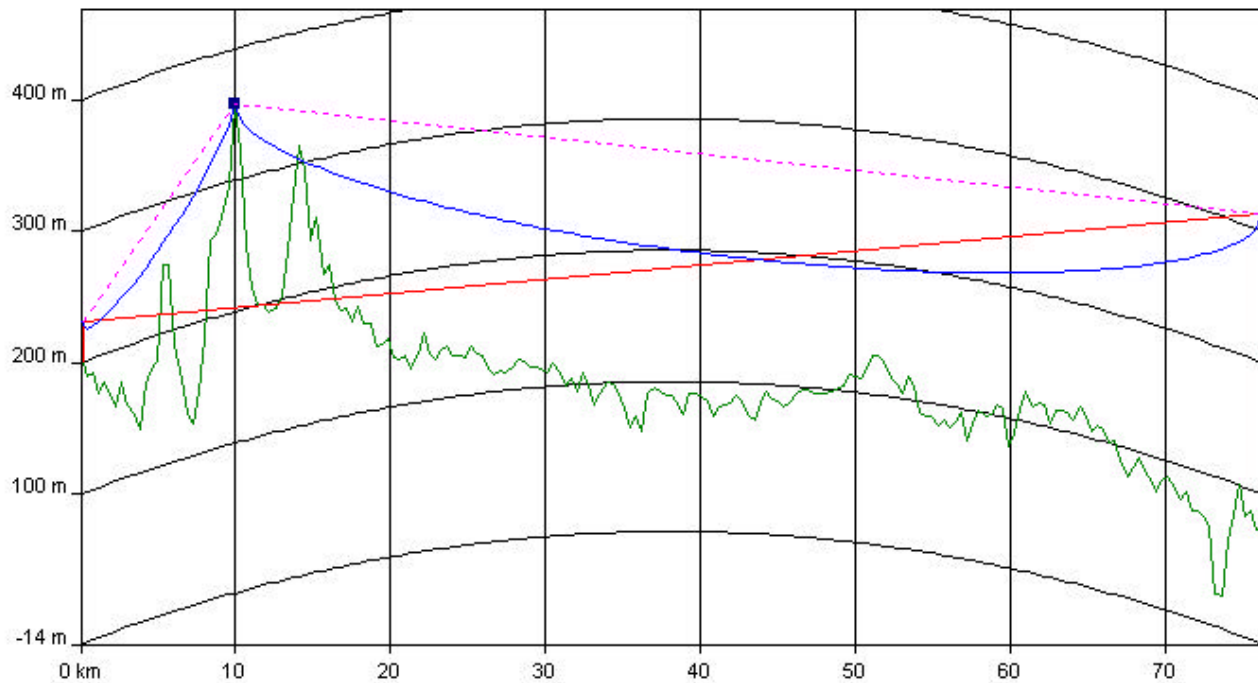
Lat: 38-57-49.0 N  
 Lon: 77-06-18.0 W  
 AMSL: 78 m  
 Tower AGL: 240 m

**Profile Info**

Distance: 76.21 Km  
 Bearing: 73.38 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 294.6925  
 Clearance: 0.6

**Losses**

Base Loss: 119.5 dB  
 Fade Margin: 16.1 dB  
 Diffraction: 41.4 dB  
 Fresnel: 0.0 dB

**ComStudy 2 Path Profile****Clarks Corner**

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

**WETA-TV**

Lat: 38-57-50.0 N  
 Lon: 77-06-16.0 W  
 AMSL: 73 m  
 Tower AGL: 240 m

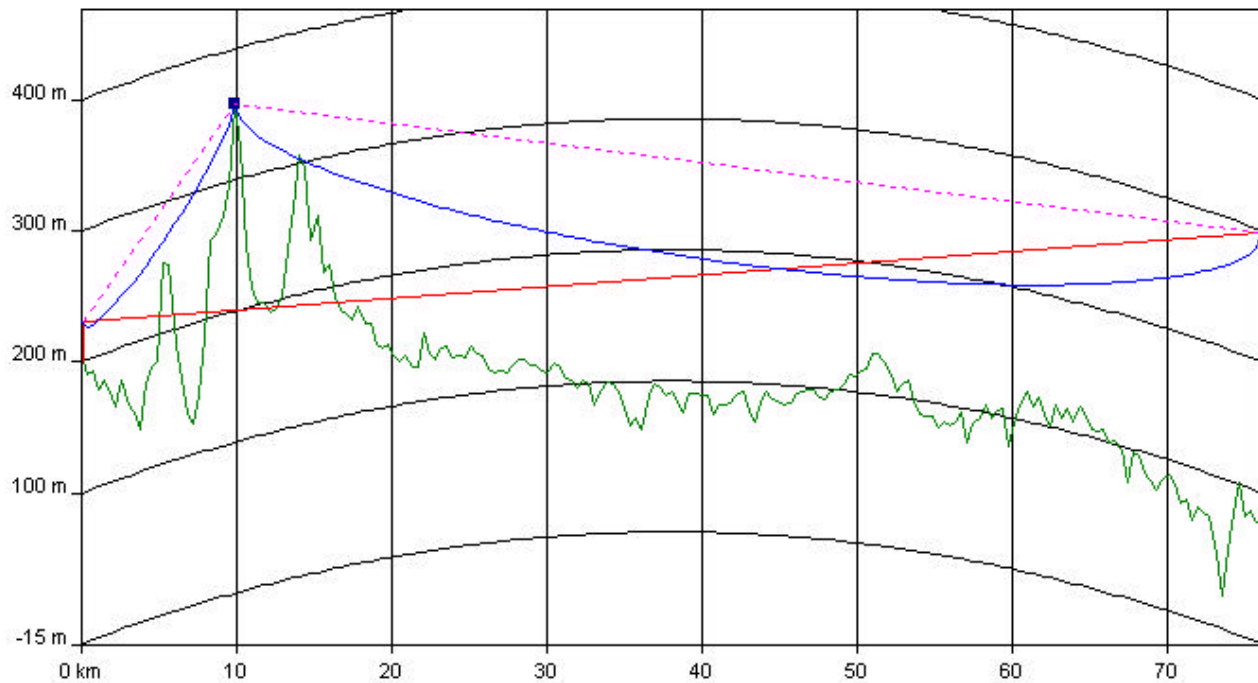
**Profile Info**

Distance: 76.26 Km  
 Bearing: 73.36 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 312.6825  
 Clearance: 0.6

**Losses**

Base Loss: 120.0 dB  
 Fade Margin: 14.8 dB  
 Diffraction: 42.2 dB  
 Fresnel: 0.0 dB

### ComStudy 2 Path Profile



#### Clarks Corner

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

#### WHUT-TV

Lat: 38-57-49.0 N  
 Lon: 77-06-18.0 W  
 AMSL: 78 m  
 Tower AGL: 220 m

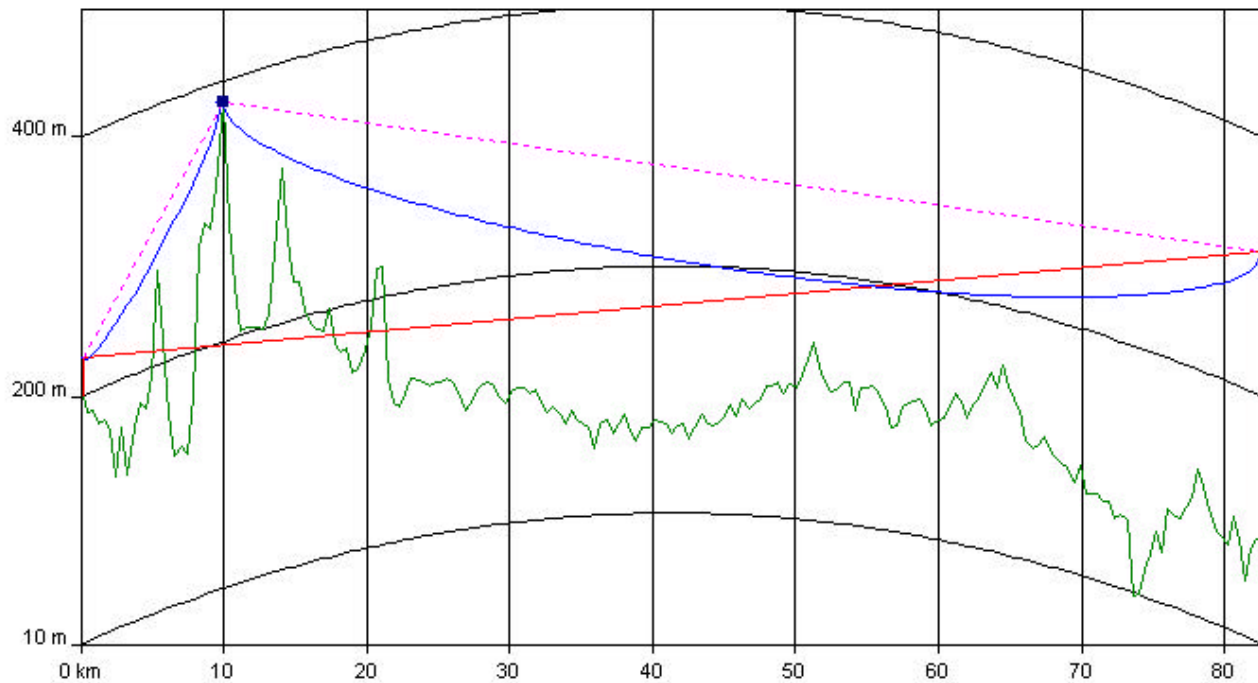
#### Profile Info

Distance: 76.21 Km  
 Bearing: 73.38 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 330.6925  
 Clearance: 0.6

#### Losses

Base Loss: 120.5 dB  
 Fade Margin: 11.5 dB  
 Diffraction: 45.0 dB  
 Fresnel: 0.0 dB



**ComStudy 2 Path Profile****Clarks Corner**

Lat: 38-46-14.0 N  
 Lon: 77-56-59.0 W  
 AMSL: 201 m  
 Tower AGL: 30 m

**WBDC-TV**

Lat: 38-57-44.0 N  
 Lon: 77-01-36.0 W  
 AMSL: 91 m  
 Tower AGL: 220 m

**Profile Info**

Distance: 82.70 Km  
 Bearing: 74.78 deg  
 # of points: 200  
 K value: 1.333  
 Frequency: 384.6875  
 Clearance: 0.6

**Losses**

Base Loss: 122.5 dB  
 Fade Margin: 11.3 dB  
 Diffraction: 43.1 dB  
 Fresnel: 0.0 dB