

Big Bend Broadcasting hereby requests a waiver of section 74.1204 (a) with respect to contour overlap.

This proposal is within the 60-dbu contour of 2nd adjacent station KPEZ 272 C2.  
No actual interference will occur since the area within the undesired-to-desired contour is unpopulated per 74.1204 (d)

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Calculation of potential translator interference to 2nd adjacent Station KPEZ 272 C2:

Distance from KPEZ license site = 11.36 km  
Azimuth from KPEZ to proposal site =  $12.6^{\circ}$   
Average Terrain on  $12.6^{\circ}$  = 212 meters  
HAAT on  $12.6^{\circ}$  = 433 m - 212 m = 221 m  
FS of KPEZ at proposal site (26 kw @ 221 m) = 89.5 dbu  
Potential interfering contour per 74.1204 (a) = 89.5 dbu + 40db = 129.5 dbu  
Distance to the interfering contour = 0.020 km (20 m)

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With the antenna mounted at 100 meters AGL, no interference will occur since the interfering contour will not reach ground level.



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## Audio Division

(202)-418-2700

## Distance, Bearing Between Two Sets of Coordinates

[FCC](#) > [MB](#) > [Audio Division](#) > [Distance Computations](#) and [Find Terminal Coordinates](#)

# Find Distance and Azimuths Between 2 Sets of Coordinates -- Results

### Distance between

N Latitude 30 13 24.00, W Longitude 97 49 39.00 (Point 1)

and N Latitude 30 19 24.00, W Longitude 97 48 6.00 (Point 2)

**11.361 kilometers; 7.059 miles**

Azimuth from point 1 to point 2 = 12.57°  
Azimuth from point 2 to point 1 = 192.58°

### [Another Distance Computation?](#)

Use [Sprong](#) to find the terminal or end coordinates, given a bearing and a distance.

This program is located at <http://www.fcc.gov/fcc-bin/audio/distance.html>

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**FM and TV Propagations Curves Calculations**

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## Results -- FM and TV Propagation Curves Calculations

### Results of Calculation

**Field Strength = 89.462 dBu**

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#### For input data from Pages 1 and 2:

ERP entered = 26.000 kW

HAAT entered = 221.00 meters

Distance entered = 11.360 kilometers

Find the Field Strength, Given a Distance to the Contour

F(50,50) curves for service contours

FM and NTSC analog TV Channels 2 through 6

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Comments on this program may be referred to [Dale Bickel](#)

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**FM and TV Propagations Curves Calculations**

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## Results -- FM and TV Propagation Curves Calculations

Free Space equation used, not curves

### Results of Calculation

**Distance to Contour = 0.020 km**

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#### For input data from Pages 1 and 2:

ERP entered = 0.075 kW

HAAT entered = 100.00 meters

Field Strength entered = 129.500 dBu

Find the Distance to the Contour, Given a Field Strength

F(50,10) curves for interfering contours

FM and NTSC analog TV Channels 2 through 6

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