

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°

Average Terrain on 12.6° = 212 meters

HAAT on 12.6° = 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.



**Audio Division**

**Distance, Bearing Between Two Sets of Coordinates**

**(202)-418-2700**

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## 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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Please send comments via standard mail to the Federal Communications Commission, Consumer and Governmental Affairs Bureau, 445 12th Street, S.W., Washington, D.C., 20554. Questions can also be answered by calling the FCC's National Call Center, toll free, at 1-888-Call FCC (1-888-225-5322).

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Federal Communications  
Commission  
445 12th Street SW  
Washington, DC 20554

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Audio Division

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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## 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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