

**Exhibit 13-C**  
**Section 74.1204**  
**Contour Protection to KMXV**

This comprehensive exhibit has been prepared to demonstrate that the K224ET modification will not cause prohibited interference to second adjacent full power FM station KMXV, Channel 227C0, Kansas City, Missouri. The KMXV F(50,50) protected contour at the K224ET application site is 81.5 dBu. Therefore the K224ET F(50,10) interfering contour with respect to KMXV is the 121.5 dBu contour. Using the FCC's FM propagation curves program (see attached) the 121.5 dBu contour was calculated to extend 85 meters from the antenna. The proposed K224ET transmit antenna would be mounted 213 meters above ground level. The interfering contour will not reach the ground. There are no high rise buildings in the area. Therefore it is believed the proposed K224ET is in compliance with Section 74.1204 contour protection rules with respect to KMXV.

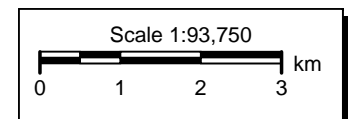
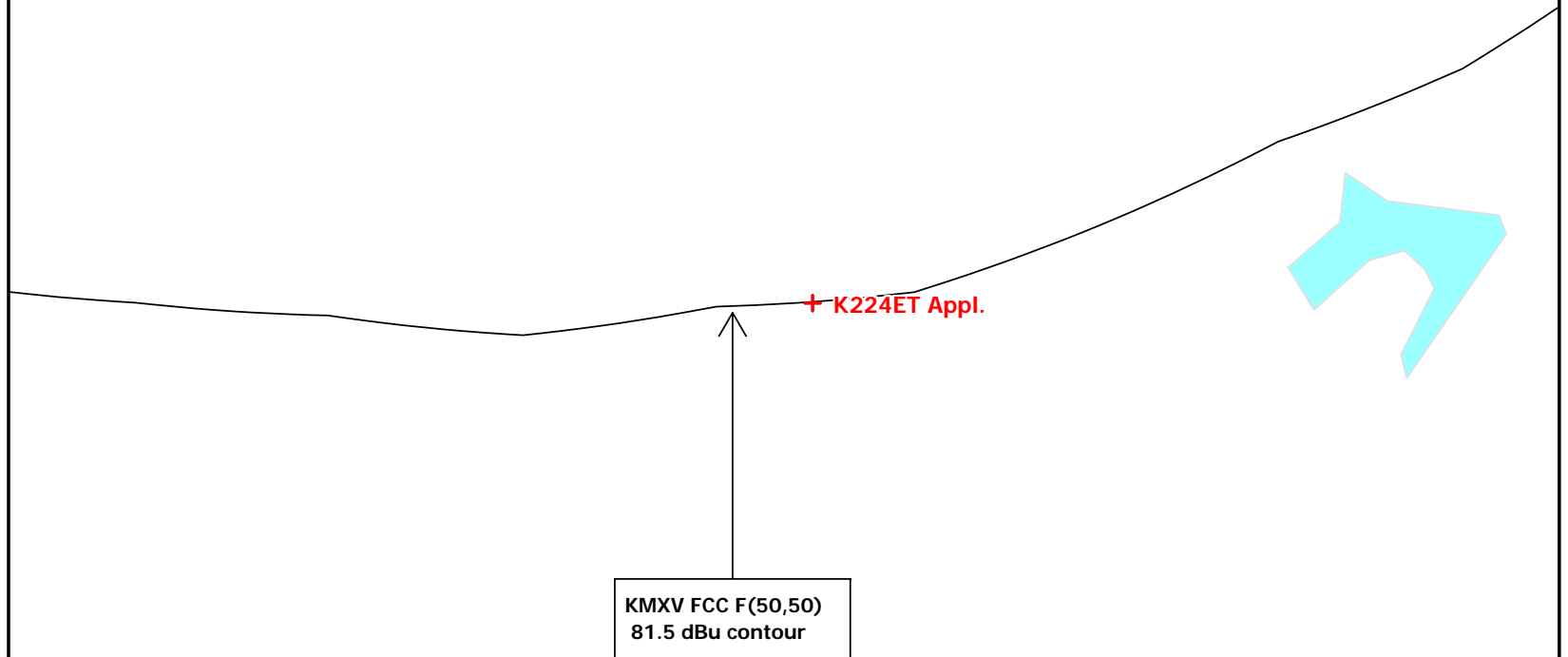
**K224ET Appl.**

Peculiar, MO  
BLFT20170509ABI  
Latitude: 38-45-26 N  
Longitude: 094-26-02 W  
ERP: 0.205 kW  
HAAT: 225.04 m  
Channel: 225  
Frequency: 92.9 MHz  
AMSL Height: 523.0 m  
Elevation: 310.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

**KMXV**

Kansas City, MO  
BLH19870318KG  
Latitude: 39-00-57 N  
Longitude: 094-30-24 W  
ERP: 100.00 kW  
HAAT: 325.0 m  
Channel: 227  
Frequency: 93.3 MHz  
AMSL Height: 599.0 m  
Elevation: 273.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**Exhibit 13-B Section 74.1204 Contour Protection**  
KMXV Channel 227C0 Kansas City, MO



Select Contour Type:

F(50,50) Service Contour -- FM and NTSC (analog) TV  
**F(50,10) Interfering Contour**  
 F(50,90) Digital TV Service Contour

Select Channel Range:  
 (not TV Virtual Channel)

**FM Radio or TV Transmit Channels 2-6**  
 TV Transmit Channels 7-13  
 TV Transmit Channels 14-69

Find This:

Field Strength, given a Distance (in km)  
**Distance, Given a Field Strength (in dBu)**  
 FM ERP, given Distance and Field Strength [F(50,50) Service Contour]

ERP (kW)

 Distance (km)

HAAT (meters)

 Field (dBu)

Results:

**Calculated Distance = 0.085 km**

Free Space equation used to compute distance.