

EVA LLC - EMERGENCY VEHICLE ALERT SYSTEM



Connecting with safety



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BACKGROUND FOR INTERFERENCE CHECK

EVA – distance calculation for frequency conflict questions.

FCC Form 442 attachment

File #: 0175-EX-PL-2003

1) Nearest TV channel 7

37 58 29N 087 33 21W Evansville South

388 feet elevation

2) Center of closest test area

38 10 59N 085 39 00W Jefferson County KY

524 feet elevation (max 900 feet)

Louisville operating radius 30 km – so we could be 30 km closer than calculated by the centers.

(Frankfort operating radius is 10 km – so we could be 10 km closer than calculated by the centers.)

Distance between Evansville South IN 37:58:29N 087:33:21W and Jefferson County KY 38:10:59N 085:39:00W, as the crow flies: **105 miles (169 km)** (91 nautical miles).

Source: <http://topozone.com/>

Calculations for 169 km minus 30 km as the worst case! i.e. **139 km**.

Based on 1990 data - -

Evansville, Indiana, US

County: **Vanderburgh County**

Location: **37:59:03N 087:32:36W**

Population (1990): **126272**

Elevation: **388 feet**

Louisville, Kentucky, US

County: **Jefferson County**

Location: **38:13:29N 085:44:28W**

Population (1990): **269063**

Elevation: **462 feet**

Distance from Evansville, Indiana, is: **100 miles (160 km)** (87 nautical miles)

Frankfort, Kentucky, US

County: **Franklin County**

Location: **38:11:27N 084:51:55W**

Population (1990): **25968**

Elevation: **510 feet**

Distance from Evansville: **147 miles (236 km)** (127 nautical miles)

Distance calculations source: <http://www.indo.com/cgi-bin/dist>