

## Re: Inertial-dampening systems

**Source:** <http://sci.tech-archive.net/Archive/sci.physics/2005-02/3439.html>

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"20 cm diameter makes a circle that is 20 cm in diameter, or with a radius

of 0.1 m.  $A = \pi * r^2 = (3...)*(0.1 \text{ m})^2 = 0.03$ . I selected the 20 cm diameter by holding a ruler up to my belly. Humans aren't really shaped

like circles, but an approximately 20 cm diameter circular path will exist in the pilot, it's good enough for a BOTE calculation."

Doh, your right Hansen I was being stupid. Though I would still have reservations about even that strong of an electric field liberating enough free charge to do damage to the human body. For a lightning strike or a high voltage line free charge is provided by an outside source rather than being liberated from their atomic bonds in the human body.

Here are some exposure guidelines that I found:

IEEE suggest

20kV/m and greater in controlled laboratory setting and 5kV/m for public exposure for less then 1Hz.

<http://www.osha.gov/SLTC/elradiation/epri-ieee1-03d.pdf>

Lawrence Livermore National Laboratory suggest were simply insulating material though it is not very specific for 5kV/m and up.

[http://www.llnl.gov/es\\_and\\_h/hsm/doc\\_20.07/tablea5.pdf](http://www.llnl.gov/es_and_h/hsm/doc_20.07/tablea5.pdf)

I remember you stating some were in the conversation that you think the biological effects would kick in before the joule heating. I would have to agree. The LLNL site also says exposure to 4 Tesla of static magnetic field can cause head aches.