

Rulemaking1CEm Resource

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Linear No-Threshold Model and Standards for Protection Against Radiation

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Comment on FR Doc # 2015-20722

Submitter Information

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General Comment

Dear NRC,

The LNT model is inherently flawed as is, assuming a linear relationship between health risks (e.g. cancer) and exposure rates is factually unproven and statistically incorrect. By assuming that even low radiation doses increase the risk of cancer we do not only suffer unnecessary economic damage but also pretend like there is a way of cancelling this dose. There is not, as background radiation levels differ across the planet and the radiation of the sun cannot be changed or altered, moreover there is no evidence that a low dose increase (e.g. 1 msv to 5 msv) has any statistical impact on cancers risks that do not fall within other variables.

What the LNT model basically does is: at temperature 100C there is a 100% chance risk of water to boil, while at 1C there is still a 1% chance of water to boil, that is simply not possible. The LNT model has a threshold, we do not exactly know where that threshold lies, but we do know that under several dozen mSv, there is no significant health risk.

Stories like the LNT make people, without any actual knowledge of ionizing radiation (or even basic high school degrees), afraid of things like harmless background radiation, uranium ore, nuclear power plants that are extremely safe. It is time to end these misconceptions, correct the LNT.

Radiation is not dangerous in itself, it is about the dose, if the dose is low enough there is no harm. Doing everything in your power to bring the dose to 0 is a waste of time and resources that can be spend on noble causes.

Regards,

A Dutch Researcher