CEP Public Comment Reference Materials Submitted by James Enstrom and Ronald Stein

March 20, 2025

Public Comment to SONGS Community Engagement Panel

James E. Enstrom, PhD (Physics), MPH (Epidemiology)
Retired UCLA Research Professor (Epidemiology)
President, Scientific Integrity Institute

There needs to be a reassessment of the overall health effects of radioactive waste at SONGS. Low-level radiation has been associated with increased cancer deaths, but not with total mortality. There needs to be recognition that the Linear No-Threshold (LNT) Model is seriously flawed and that there is a threshold level below which radiation does not have negative health effects. It is very important that all the CEP panelists understand the minimal health effects of SONGS radioactive waste and the importance of clean nuclear power to California.

Reference on Myths and Realities of Radioactive Waste August 12, 2024

https://world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-waste/radioactive-wastes-myths-and-realities

1. There are a number of pervasive myths regarding both radiation and radioactive waste.

2. Some lead to regulation and actions which are counterproductive to human health and safety.

Reference on Flawed Linear No-threshold Model September 1, 2024

https://pubmed.ncbi.nlm.nih.gov/39052875/

Health Physics 2024 Sep 1;127(3):450-460. doi: 10.1097/HP.0000000000001844.

Overt Scientific Bias and Clandestine Acts by Trusted Scientists: The Flawed Application of the Linear No-threshold Model by John J Cardarelli 2nd

Abstract

The Health Physics Society (HPS) released a video documentary on the history of the linear no-threshold (LNT) model in April 2022. It exposed many scientific and ethical failings of many leaders, influential scientists, and organizations that have resulted in the current system of radiological protection. Since then, the society received many comments; most were supportive, while a few criticized the video documentary as delivering an anti-LNT message. Shortly thereafter, many emails discovered via an independent Freedom of Information Act request revealed multiple layers of coordination between prominent people in the field of radiation protection to coopt the leadership within the HPS and suppress information they perceived or assumed to be contrary to a pro-LNT message. Many of these emails were published by JunkScience.com, an independent organization that exposes faulty scientific data and analyses used to advance special interests and hidden agendas. This Forum article is intended to document in the peer-reviewed literature the JunkScience.com findings of clandestine acts by trusted scientists within the radiation protection community. The emails exposed strong personal biases, actions taken by leaders within the National Commission on Radiation Protection and Measurements (NCRP) to "save the Society" from its "downward

spiral," and actions taken by NCRP and HPS members serving on a National Academies of Sciences committee to suppress scientific information relevant to the debate about health effects in low-dose environments. These anti-science actions harm our entire profession and the trust that Congress bestows on our scientific organizations expecting to receive objective recommendations based on sound science. It is important that these events are recorded in the scientific literature from a historical perspective. The radiation protection community will be judged not by what is revealed in this article but by what actions are taken from here.

References sent by Ronald Stein for the March 20 CEP meeting:

Nuclear Waste could be the game-changer to Unlimited Electricity

So-called nuclear waste still has 97% of its electricity potential yet to be realized.

Co-authored by ***Ronald Stein***, ***Oliver Hemmers***, *and* ***Steve Curtis***
Published December 23, 2024 at America Out Loud NEWS
https://www.americaoutloud.news/nuclear-waste-could-be-the-game-changer-to-unlimited-electricity/

Ronald Stein, P.E.
Author | Columnist | Energy Literacy Consultant

- Ron was recently featured in an **MSN article** The Energy Literacy Revolution: How Ronald Stein is Instigating Smarter Conversations
- Columnist of Op Ed articles on Energy Literacy at America Out Loud NEWS (this link has access to my books and many of my articles on Energy Literacy)