

Changes 2022-10 (Version wZ) to 2023-10 (Version x1)

- 2.3 Split discussion of plutonium and spent nuclear fuel into two separate chapters. This screws up all the old chapter numbers.
- 2.2 Added box on plutonium powered pacemakers.
- 3.1 Added Three Particle colorbox
- 3.2 Added paragraph on area required for dry cask storage.
- 3.5 Corrected 1,000,000 to 10,000,000 \$/kg for Pu-238 in vault table.
- 3.6 Added Rockwell DO NOT EAT quote
- 5.0 Reworded intro to make point about rad repair facilitating O2 metabolism
- 5.6 Added subsections on Techa River contamination and Kyshtym explosion.
- 5.6.3 Rewrite of 15 Country Study section.
- 5.6.4 Rewrite and expansion of INWORKS Study section
- 5.6.6 Reworded Taipei Apts to point out possible confounding factors.
- 5.7.5 Added Section on Yamamoto mice.
- 5.8.1 Updated dose rate table, reworded text.
- 5.8.2 New section on DNA repair. Moved UCB studies to here. colorbox on which-came-first theory, dropped alpha paradox.
- 5.9.1 Added point about ROS damage rate . Also footnote about I-131 milk.
- 6 **Switched to 1 day snt repair period.**
- 6.3 Corrected comparison of LNT/SNT for dial painters, tolerance dose by adjusting for probability of reaching period with no mortal cancer.
Corrected bad typo in Stevens description was 3 mSv/d shud be 8.
Converted Cohen graph to log bar chart, added coffee comment
Added section on choice of background dose.
Added section of LNT/SNT regulatory dose rates.
- 6.4.5 Corrected R to Gy factor. Added footnote on non-volatiles.
- 6.6 Added point about pacemaker TBq to TMI discussion.
- 6.6 Expanded buffer zone section, to make point that to date evacuations have caused far more harm than LLE due to radiation.
- 6.7 Added Windscale max dose rate. Added bit about I and Cs condensing.
- 6. Added appendix on SNT math
- 8.3 Added bit on journalist fears to TMI section.
- 7 **new chapter on thyroid cancer.**
Pushes all subsequent chapter numbers up 1
- 9.3 Changed wording on early plant safety, dropped footnote on AEC split. DEGB – >11 seconds to load for gens. Refiled all the figures
- 9.5 Expanded discussion of French regulation a bit. Finally found the reference for the APR1400 cost table. Added para on turnkey contracts.
- 9.8 Added para on 1971 Midland pro-nuke rally.

- 9.12 Added section on nuclear plant build times. Added footnote on change in Jap nuke regs after Fukushima
- 10.3 Added bit about Rickover to spec section.
Added para on Midland soil screwup.
- 10.4 Added box on Okioluto feedwater pumps. Expanded paragraph on Shaw Lake Charles bringing in N-stamps. Added final paragraph on QA.
- 11.5.3 Added Brookhaven, Vermont Yankee tritium leak footnote Added Monitcello leak. Moved footnote into tcolorbox.
- 11.10 Added bit about successful applicants supporting the process to avoid competition.
- 12.2.3 Added NASA astronaut limits.
 - 13 ***Chapter largely rewritten to turn the proposal into true Underwriter Certification.***
- 13.2 Added bit about Excelon CEO's compensation. Added Midland screw up story.
- 13.7 Added Section on German regulatory system. Then took it out.
 - 14 Added Okrent quote
- Appendix B Added Eisenhower quote.