



NRC as Superhero: Keeping the country safe

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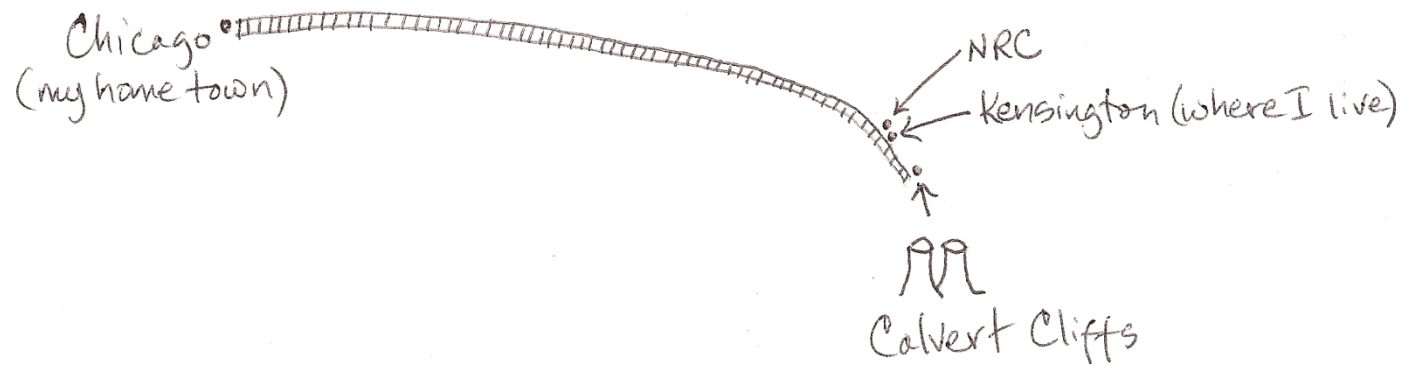
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Platts/McGraw-Hill's Nuclear Publications

NuclearFuel, Inside NRC,

Nucleonics Week

You mean, I get to tell you what I think?





Very complex, technical subjects

Industry PhDs

media PhDs

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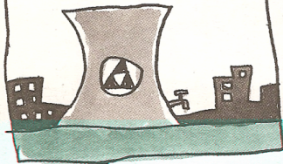
NRC PhDs

public PhDs

Captain Underpants AND THE WAR of the WILEY WONDER NERD

a Gripping Tale of Action and Horror
By **George Beard** And **HAROLD HUTCHINS**

Onse upon a time
There was a new-
CLEAR Power Plant.



It had a Lots
of waste.



The waste was ~~supost~~
supost to be taken
to a dump...



... BUT one barral
~~was~~ FELL OFF.



This shouldn't happen!



How do we know it's safe?

- Designed to meet 10 CFR Parts 71, 72
- Licensed by NRC
- Manufactured following NRC-approved quality assurance programs
- Subject to NRC inspection
- Tested?



Industry pressures

- Keeping workers and the public safe
- Keeping plants operating on schedule
- Maximizing PLANT RUN TIME
- Managing spent fuel pool contents
- Maximizing shareholder profit



NRC=Captain Underpants

- Keep the country SAFE!



Why regulate at all?

- To establish and enforce safety standards that ensure the protection of public health, safety and the environment

...that means, **NO DISASTERS**

...it should also mean **NO INJURIES**



NRC's multi-layer review

- License application reviews
- Requests for additional information
- Environmental analyses
- Certificates of compliance
- Technical specifications
- Fabrication standards
- Fabricator/designers inspections



Always have a questioning attitude

- Industry: “I smell a ratchet”
- NRC: “We have to make sure we’re not looking at an unanalyzed condition”



Disregard NRC at your own peril!

- Remember Vectra and Sierra Nuclear?



How can we be confident it's safe?

- public meetings
- ADAMS
- Media calls taken seriously



Where are NRC's challenges?

- Engineer speak
- Complex regulatory structure
 - Part 71
 - Part 72: general, specific licenses
 - Part 73
 - Part 50
- Explaining agency processes



What are NRC's challenges?

Acronyms!!!!

- SRM
- SECY
- SFST
- OGC
- EDO
- ISGs
- SRP
- ISFSI
- COC
- MPC
- DSC
- RAI
- LAR
- EA
- EIS



What are NRC's challenges?

- Timely meeting summaries
- Software upgrades
- Design life vs. practical life?
- Testing to failure (or testing at all)?
- Materials degradation

NRC=Captain Underpants, again

