8/17/99

Mtg w/ CT + NRR on SFP accidents:

Diane Jackson:

Heavy loads

Seismic

Rich Barrett:

$R = CDF \times CCFP \times C = LERF \times C$

$\Delta R = \Delta CDF$

$\Delta R = \Delta LERF$

$R = LERF \times C$

$\Delta R = \Delta LERF \times C + LRF \times \Delta C$

Large Early Release

10^{7} person rem

10 latent fatalities

10 Early fatalities

$\Delta LERF = 10^{-6}$ / rx yr is ok

ΔR = 10 person rem/rx yr is ok

.1 latent fat./rx yr is ok

10^{-5} early fat./rx yr is ok.

B/4

	w/ EP (Case 4)	w/o EP (Case 5)
at 1 yr	5×10^6 rem	5×10^6 rem
	2500 cancer fat	2200 cancer fat.
	13 early fat	1 early fat.

- Lose a ~~foot~~ of water per hour.

Catastrophic failure vs. long-term build up.

2000 gpm leak
120,000 gal/hr leak

400,000 gal in the pool

LERF for spent fuel pool is currently 10^{-5}/rx yr

$$\Delta R = LERF \times \Delta C$$
$$= (10^{-5}/\text{rx yr}) \times \Delta C$$

R. Barrett said this number is causing us trouble.

loss of cooling
loss of makeup
loss of offsite power
} all problems

Seismic
heavy loads

Effectiveness of EP

Risk
Defense in Depth

Earthquakes 2×10^{-6}
Total is 10^{-5}

Cannot show Δ risk to be acceptable

If have 10^{-5}, how could you license it even with EP.

1 train, non safety grade, 1 source of water.

Add in short-lived isotopes.

- RES should temper what you say of discussion of Iraq.
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