SFP Workshop 7/16/99 (1)

Gary Holahan -

1. We were impressed by what utilities said yesterday they could do.
2. Redoo at IEs + Ed Burns' info
3. Try + requantify + extend state-of-the-arts takes time + $
4. Followup of what are our expectations of the operators. Want experts in HRA involved + utilities.
5. We will requantify to the extent to which the real experts say we can go.
6. Will publish a report w/ best info available.

Mike Mizoner - Personal comments.

Ray Shadis

Falling crane rail precipitating out boron / criticality

Ed Burns - Agrees w/ Gary. Likes step-wise approach (1) relate each of industry practices to note which are most important (2) from quantitative standpt, if incorporate into model, you can decide which seq are most impt + decide when/how to truncate sequences (3). extending state-of-art is good idea. Can do separate from decommissioning.

don't need to have low #'s can't defend

→ Need to know what is impt.

463

SFP Workshop 7/16/99 (2)

Seismic Analysis

Gontam - He believes 3xSSE is OK.
Baretto Perry -

Tom O'Hara - Duke Engineering & Services

NR-1353 systems failure prob 10^{-5}/yr vs 10^{-6} in NRC's analysis.

Bob Kennedy
1½ variance in fragility from "gross avg" ⇒ ± factor 5 in risk.

Ray Shadis -

→ Is transfer tube included in the fragility analysis?
PWRs + BWR 5/6

→ Buildings not seismically qualified

Peter James Atherton - aging + equip qual?

What about AC power?

→ Some pools can't handle ~~the~~ pool boiling

SFP Workshop 7/16/99 (3)

Heavy Loads George Hubbard
Ed Throm

¿Is there better industry data on heavy load drops?

~~As I read it, you'd see us a factor of 5 lower based on perceived conservatisms~~

B. Thomas
- Operator error - dominant contributor
- data 0612 + others uncertain
- GL 85-11 exonerates plants from doing consequ analysis or SF-proof crane - [Mike Maisper says is an either/or]

Industry
When go into decomm. TS/FSAR are revised. Suggest staff make sure 0612 implemented in
→ DFSAR. Should be an issue for operating plants too. 0612 generated for fuel pools + safety related equip.

Industry
NRC always used upper bound # as its best estimate.

Conn Yankee

Bill Henries -

Brian Ford - Millstone 1

7/16/99 (4)

Bill Henries - 1-2 orders of magnitude reduction is "ok" if ~~that~~ staff doesn't use "upper bounds" for its inputs.

Thermal Hydraulics

Industry expert → Good fit - heatup vs Origen code

Ray Shadis - ① When you go to decomm, you get a lower level of contractor help. ② Concern over foreign material ③ What else is going on in a decommissioning plant.

Wrap-Up

Mike Meisner - Commitments

In Ed Burns'

A. Hardware - • seals/redundant or self-sealing
• anti siphon drivers
• connection for SFP from diesel-driven fire pump

B. Procedural - int. fires (combustibles, work controls).
operators + security rounds
detection devices

* ⟶ clear procedures - water + power sources
- seek multiple paths.

C. Training - no addl. commitments - App B + Certified Fuel Handler program NRC qualified.

7/16/99 (5)

Heavy load cashdrops - resolved in NR-1353. No need to reopen. 1353 does not ~~regire~~ discriminate between operating and decommissioning Rx.

No need to redo PRA HRA methods. No need for research project. Need to requantify the values. Need to reprioritize industry resources.

Proposals -

(1). staff quickly provide near-term (1-4 months) plan on dealing w/ outstanding issues.
(2) Periodic Mgt mtgs - industry + staff
(3) HRA - Not necessary. Model just needs to be requantified. Concern it will become a research project. Industry would participate if we start early. Don't want to hold anything up.
(4) Want HRA meeting in next 2-3 weeks
(5) heavy loads - Want us to get back to NEI in a couple of weeks on credit for 0612 + upper bounds
(6). seismic - NEI will come up w/ a screening list in 2-3 weeks.
(7) NEI wants our ~~seis~~ PRA model.
(8) Wants joint NRC-NEI team to deal w/ this.
(9) Will send Ed Burns report to us in a few weeks.

B. Sheron

(1). We don't just accept #s given at a meeting.
(2) Reasonable people disagree
(3). Generic Issue resolution - either can or cannot justify a backfit on cost-benefit basis.

7/16/99

(6)

(4) We're not turning HRA into a research project. Try to get group of experts together w/in 30 days
(5). Final draft by end of year.

Ray Shadis - Is there a memo that directs the staff on this issue? Comm may need to relook at the ~~analyse~~ issue. Public ~~is~~ is confused by Part 50 vs. Part 72 for decommissioning.

Peter Atherton -

(1). seismic - ageing & qualification - Concern w/ ageing of concrete WRT temperature. Concrete only cures over a few years.

(2). Criticality - wants written response
(3). what are consequences of zirc fire.
(4). Wants to know the probability we would calculate for the TMI report. Wants to use this + other ish values of other accidents to see if can set ~~the~~ bottom line cut off for λ would consider.
(5) would NRC "accept" a total blackout condition. Need lights in SFP area.
(6).