

SFP Workshop

7/16/99

①

Gary Holahan -

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

Mike Midmer - Personal comments.

Ray Shadis

Falling crane rail
precipitating out bowen / criticality

Ed Burns - Agrees w/ Gary. Likes step-wise approach ① relate each of industry practices & note which are most important ② from quantitative standpoint, if incorporate into model, you can decide which seq. are most imp + 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 say defend

→ Need to know what is imp.

462

Seismic Analysis

Sontam - He believes $3 \times SSE$ is OK.
Barth Perry -

Tom O'Hara - Duke Engineering & Services

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

Bob Kennedy

$1\frac{1}{2}$ variance in fragility from "gross avg" $\Rightarrow \pm$ factor
5 in risk.

Ray Shadis -

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

→ Buildings not seismically qualified

Peter James Herten - 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 Thron

Is there better industry data on heavy load drops?

As I read it, you'd see us a factor of 57
lower based on perceived conservatism

B. Thomas

- Operator error - dominant contributor
- data: OG12 + others uncertain
- GL 85-11 exonerates plants from doing cause analysis
or SF-proof crane - [Mike ^{Maisner} says is an either/or]

Industry

→ When go into decom. TS/PSAR are revised.
Suggest staff make sure OG12 implemented in
DFSAR. Should be an issue for operating plants
too. OG12 generated for full pools + safety
related equip.

Industry

NRC always used upper bound # as its
best estimate.

Conor Yankee

Bill Henries -

Brian Ford - Millstone 1

7/16/99

(4)

Bill Meiner - 1-2 orders of magnitude reduction in data ~~that~~ it doesn't use "upper bounds" for its inputs.

Thermal hydraulics

producing Good fit - heating is Origen code
open

LongShade - ① When you go to decommission, you get a higher level of computer help, ② concern over foreign material ③ what else is going on in the decommissioning plant.

Work-UP

Mike Meiner -
Commitments
in SD/SCM

- A. Hardware - seals/redundant or self-sealing
• anti cyberdrains
• connection for SFP from direct drain
- B. Procedural ^{fire pump} ~~int. pres~~ (combustible, work control).
operators + security rounds
detection devices
- * \rightarrow Clear procedures - ^{water + power sources} seek multiple paths.
C. Training - ^{addl. commitments - App B + Contingent} Fire Handler program NRC qualified.

7/16/99

(5)

heavy load cardlogs - resolved in NR-1353. No need to resolve. 1353 does not ~~discriminate~~ discriminate between operating and decommissioning Rx.

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

Proposals -

- (1) Staff quickly provide near-term (1-4 months) Plan on dealing w/ outstanding issues.
- (2) Periodic mtg mths - industry + staff
- (3) HRA - Not necessary. Model just needs to be re-quantified. 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 OGI2 + upper bounds

- (6) Timeline - NEI will come up w/ a screening list in 2-3 weeks.

- (7) NEI wants our ~~own~~ PRA model.
- (8) Want joint NRE-NEI team to deal w/ this.
- (9) Will send Ed Burns report to us in a few weeks.

3. Sharon

- (1) We don't just accept the given at a meeting.
- (2) Reasonable people disagree
- (3) Review done 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 ~~analysis~~ issue. Public ~~is~~ is confused by Part 50 vs Part 72 for decommissioning.

Peter Otherton -

- ① seismic - ageing & qualification - concern w/ ageing of concrete w.r.t. temperature. Concrete only cures over a few years.
- ②. Criticability - wants written response
- ③. what are consequences of your fire.
- ④. Wants to know the probability we would calculate for the ~~FMI~~ report! Wants to use this + other risk values of other accidents to see if can set ~~the~~ bottom line cut off for 1 would consider.
- ⑤ would use "accept" a total blackout condition.
- Need lights in SFF area.
- ②.

