

ACRS Mtg on SFP

11/5/99

D Jackson's presentation

D Powers:

Modules of Zr-hydride triggering the fire.

T Kross:

• Risk is varying with time

D Jackson:

• Look at 1 month after shutdown and 1 year after shutdown.

ACRS:

What release fractions did you use?

J Schaperow:

We used Cs release of 1, and much smaller for others.

ACRS: What about Ru release in air?

What about Canadian experiments with Ru?

J Schaperow:

Lot of scenarios would have steam.

I am not intimately familiar with the Canadian experiments.

ACRS: This regulatory initiative is a good candidate for risk based.

B/14

1
2

Mike Meirai's presentation

Mike Meirai:

• Here is the NEI report on the shaft draft report.

Please read it.

• In shaft's study, human error dominates the results.

• We have two operators that all they do is look at the SFP.

ACRS: Browns Ferry?

Meirai: Temperature only was up 20°

Did not challenge TS limits.

Were operating plant at same time.

ACRS: Part of the problem is the use of point estimates.

Need to use distributions.

Meirai: Quantification of event trees --

needs truncate after a day or two.

Kress: Ignition temperature is a function of geometry.

Meirai: Tubes are manufactured at a T higher than 800°C.

In the past, bundles were put in dry storage casks after 2 year in the pool.

Members of the Public

Peter Atkinson:

SPRA Matter ---

Concern of P&T risk: given that ARE is using.

People I represent state:

• no risk that is avoidable is permissible

• not on the side of caution.

2) People in New England and Great Lakes area are interested. Public would like to have access to the deliberations

or de-commissioning.

3) Agency - of poor

4) credibility

5) MOX

6) high-burnup (higher enrichment)

7) terrorism

8) safety-grade requirements - should be applied to SF P.

D Powers:

Fuel up burnups in excess of 40 GWD/t will have Zr-hydrate nodules.

Paul Black, Energy Consulting (Consults for you)

Blower rule is from setpoint.

Looked at it for Walker + Millstone

Inspections are insignificant because fuel has

got there for many years.

Part 50 is not appropriate to SFR's.

10 CFR 72 is not being applied to SFR's.

Logation by exemption.

NRC/CR-6451 provides reasonable guidance.

25 mrem/year limit based on a resident farmer.

New practicability. Need to know what requirements are.