

# 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/114

## Mike Meir's presentation

Mike Meir:

- Here is the NEI report on the stat/draft report.

Please read it.

- In stat's study, human error dominates the results.
- We have two operators that all they do is look at the SFP.

ACRS: Browns Ferry?

Meir:

- Temperatures only went 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.

Meir: quantification of event trees --  
needs to run over other a day or two.

Kress: Ignition temperatures is a function of geometry.

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

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

Downs: Fuel up burnups in excess of 40 GJ/d/t will have Zr-hydride nodules.

## Members of the Public

Peter Atkinson:

1) PRA Matter ---

Concerning PRA technique that ARE is using.

Page 1 represent state:

• no risk that is avoidable is permissible

• cut 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

on decommissioning.

3) Aging - of pool

4) Circularity

5) MOX

6) high-burnup (higher enrichment)

7) terrorism

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

Paul Black, Energy Consulting (Consulting for you)

Below rule is from Section.  
Look at it for Pollution + Millstone  
Consequences are insignificant because fuel has  
not there for many years.

Part 50 is not appropriate to SFR's.  
10 CFR 72 is not being applied to SFR's.

Regulation by exemption.  
NRC/CE-6451 provides reasonable guidance.

25 mrem/year limit based on a resident farmer.

New predictability. Need to know what requirements are.