

Koodak

Anti - Rx Kinetics code, we don't have it here

Meizer

one guy @ ESV, they had slow things that were a problem like component degradation - slow deterioration which creates fuel failure

Graphite is very dependent on how materials were made burn on pore size & other things old data may not be applicable to current graphite types

Rich's issue

10/11/01

Japan has not experienced SCC because they designed equip to match prior experience database level so impurities are low & match experience so can use database to qualify their staff

graphite

large  $\phi$  gradient off CR tips are a situation that can crack the graphite - creating high stress place that can be a problem.

Can make front part of reflector replaceable so can change out to get rid of problem

fuel pebble graphite will be different from med. pebble graphite (mod is true graphite, fuel is not.)

ultrasonic is poor for graphite because need low freq to penetrate graphite & then resolution 6/35 is poor. - think they use

10/11/01  
(cont.)

(C) graphite has a property to absorb water, so need to startup slowly to get rid of the water.

graphite is 2<sup>nd</sup> biggest source of tritium - after helium itself

PBMK - immense concern w/ common cause failure of reflector which would take out both types of shutdown systems.

10/12/01

can

China relies on fuel so don't fuel need - based on German data

(C) Russia has but now feels that they do not need based on fuel integrity

E. St. Vam had a confinement - not a true can, because it could open + then close keeping a neg. pressure

Germany has normal filters but they are not accident filters - based on calc which showed had lots of margin to limits so got normal filters versus accident filters which cost much more - they do not have a P retaining can so is confinement

They have a can because built right after Chernobyl

S Africa bases on doses - dose criteria 50 mSv<sup>int</sup> so if accident analysis shows meets requirements w/o can then no can needed.

license by test

IAEA - CRP-5

(C) countries bring codes + run ~~by~~ based on exp. parameters + then HTIC-10 + others will actually run experiments so can see what codes are good.

10/12/01 (cont.)

( S Africa does not believe v/v of VSOP codes is good.

MTI planning to validate VSOP  
Andy believes that US has no good codes, therefore,  
he thinks we need to use German based codes for  
analysis

Contact Marcia for copy of book

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