

022

From: <Frank.C.Randall@ucm.com> Com Ed
 To: OWFN_DO.owf4_po(ZSH) R. Hsu, NRR
 Date: Thu, May 25, 2000 4:02 PM
 Subject: FW: New PRA Cases

Ray,

Here are the cases as Eric sent them to me. I noticed that in case 3 he did not allow recovery of HPCI and RCIC. Each has a fuse that could be pulled to allow operation of the respective system in the given circumstance.

Please contact me with any questions.

Frank Randall

- > Frank -
- >
- > Following are results for additional PRA model calcs, as we discussed.
- > Below values are "conditional core damage probability" (CCDP), that is,
- > given that the initiating event has occurred. It is not appropriate to
- > compare these values to the base PRA model risk profile. To calculate
- > CCDP, 1E-8 truncation limit, average maintenance conditions, average SW
- > conditions, and un-modularized model used. Initiating event set =
- > 0.999. Other initiating events set to small values (< 0.001, 1E-5 for
- > medium LOCA and loss of SW, 1E-8 for loss of both 125 V DC buses). Unit 2
- > model used because of loss of Unit 2
- > Cases and CCDPs are:
- >
- > 1) Dual unit LOOP (DLOOP), no recovery of off-site power allowed. CCDP
- > relatively small due to success of all
- > equipment available. CCDP = 2.0E-4
- >
- > 2) DLOOP without off-site power recovery.
- >
- > Thus, containment isolation is successful, and no "LOCA"
- > occurs because of normally closed check valve. Equipment loss is limited
- > to
- > by failures of
- > Success is use of available
- >
- > CCDP = 2.0E-4
- >
- > 3) DLOOP with no off-site power recovery.
- > Failure of instrumentation results in initial loss of
- > No recovery of these is allowed.
- > path available is use of
- >
- > Truncation limit set at 1E-7 due to large number of
- > cutsets.
- > CCDP = 2.4E-2

EX 4

not sure
 if
 see it
 for the
 sup

EX 4

EX 4

EX 4

EX 4

Success

EX 4

Information in this record was deleted
 in accordance with the Freedom of Information
 Act, exemptions 4
 FOIA-2001-0224

6/3

- >
- > 4) DLOOP with no off-site power recovery. Same as case (1) with
- > additional failure of both

CCDP = 4.1E-4. *Ex4*

- >
- > Let me know if you need more information.
- >
- > -- Eric
- >
- > Eric R. Jebsen
- > Risk Mgmt. Engineer
- > x-3327

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 4
FOIA- 2001-0226

.....
~~This E-mail and any of its attachments may contain Unicom proprietary information, which is privileged, confidential, or subject to copyright belonging to the Unicom family of Companies. This E-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this E-mail is strictly prohibited and may be unlawful. If you have received this E-mail in error, please notify the sender immediately and permanently delete the original and any copy of this E-mail and any printout. Thank You.~~
.....