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From: <Frank.C.Randall@ucm.com> *ComEd*
 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 *EX4*
- > Cases and CCDPs are:

- > 1) Dual unit LOOP (DLOOP), no recovery of off-site power allowed. CCDP
- > relatively small due to success of all *EX4*
- > equipment available. CCDP = 2.0E-4
- >
- > 2) DLOOP without off-site power recovery *EX4*

Thus, containment isolation is successful, and no "LOCA" occurs because of normally closed check valve. Equipment loss is limited to *EX4*
 by failures of *EX4* Cutsets are dominated in equipment actuation.
 Success is use of available *EX4*
 CCDP = 2.0E-4

- > 3) DLOOP with no off-site power recovery *EX4*
- > Failure of instrumentation results in initial loss of *EX4*
- > No recovery of these is allowed. *Success*
- > path available is use of *EX4*

Truncation limit set at 1E-7 due to large number of cutsets.
 CCDP = 2.4E-2

EX 4
not sure if I see it for the sup

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- >
- > 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

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