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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 ___   ___ Cutsets are dominated
> by failures of ___ |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 ___
> 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.
>   ĊCDP = 2.4E-2

EX 4

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

$$CCDP = 4.1E-4.$$ EX 4

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

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