

52-001

June 3, 1992

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M/C 754

In the response to the NRC request for a sensitivity analysis on human errors in the ABWR PRA transmitted to you on June 1, there are two errors. Please make corrections as shown on the following markups. Thanks, and sorry about that.

*L.G.F.*  
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M/C 489

cc: J.N. Fox  
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250030

9206250301 920603  
PDR ADOCK 05200001  
A PDR

*Q050*  
*1/1*

Table 2 - Human Actions Below the Top 300 Cutsets (2.0% of CDF)

NAME	DESCRIPTION	ASSIGNED PROB.	E.F.	IMPORTANCE	
				F.V. (%)	R.A.W.
CALN002A	Miscal. of flow xmtrs FT008A,B & C	5E-5	10	0.14	28.2
RHRCFER	Oper. fails to manually initiate (Backup for RHR core flood A/B/C)	0.10	5	0.06	1.01
HCMAER1	Valve E22-F005C mispositioned (NOFC)	0.01	5	0.05	1.05
ROERROR3	Oper. fails to manually open valve	0.01	5	0.04	1.00
ADSMAN	Failure of ADS manual init. (backup)	2E-3	5	0.01	1.06
ROOIOPHL	Oper. fails to initiate within 30 min. (Backup for RCIC)	0.10	5	<.01	1.00
NHR	Failure to restore normal heat removal	0.01	15	<.01	1.00
RWCU	Failure to actuate RWCU	0.10	5	<.01	1.00
RSTTCOPF	Operator fails to reset trip circuit (RCIC internal trips)	0.01	5	<.01	1.00
SLC000SA	Boron concentration sampling failure	2E-5	10	<.01	1.07
SLC001HE	Operator fails to initiate SLC	<del>0.01</del> 0.10	10	<.01	1.00
SLC002HE	Operator fails to initiate SLC tank heater	2E-3	5	<.01	1.00
WOPERR	Oper. fails to perform indicated action (Backup to RBCW initiation)	0.01	5	*	*
HUEROR5	Oper. fails to transfer from CST to SP	0.01	5	*	*
VOPERRF	Operator fails to start pump	1E-3	5	*	*
ASECSNA	Operator fails to backup N2 initiation	0.10	5	*	*

\* Below the cutset cutoff level (E-13)

Table 4 - Human Action Acronyms Deleted from the Model

<u>NAME</u>	<u>DESCRIPTION</u>
PA	Operator fails to inhibit ADS with an ATWS (ADS inhibit now automatic)
ROERROR7	Valve F059 inadvertently left open (Renamed ROERROR5)
HBMAER3	Manual valve F016B inadvertently left open (Renamed HBMAER2)
HCMAER3	Manual valve F016C inadvertently left open (Renamed HCMAER2)
HFL301CF	Miscalibration of flow transmitter (Renamed HFE008CF)
HOOCOPHL	Operator fails to attempt manual initiation within 30 min. (Renamed HOOBOPHL)
HPR305CF	Miscalibration of pressure transmitter (Renamed HPR007CF)
→ C001AMOP	Failure to manually initiate <sup>after</sup> <del>within</del> 30 min. (Renamed RHR <sup>SP</sup> <del>CF</del> ER) ←
AOPINHB	Operator improperly inhibits ADS (HEP deleted - error of commission)
AHPT303B	Miscalibration of pressure transmitters (Renamed AHPT006)