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A. Edward Scherer
Manager of
Nuclear Regulatory Affairs

August 28, 2003

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Subject: **San Onofre Nuclear Generating Station, Units 2 and 3**
Docket Nos. 50-361 and 50-362
Proposed Change Number NPF-10/15-542
Auxiliary Feedwater Pumps Surveillance Frequency

Reference: SCE to NRC letter dated December 9, 2002, Subject: Proposed Technical Specification Change Number NPF-10/15-542 Auxiliary Feedwater Pumps Surveillance Frequency, San Onofre Nuclear Generating Station Units 2 and 3

Dear Sir or Madam:

This letter responds to an NRC request for additional information (RAI) concerning the Southern California Edison (SCE) request to change the Auxiliary Feedwater Pumps Surveillance Frequency at San Onofre Units 2 and 3, Amendment Applications 218 and 203, Proposed Change Number (PCN) 542 (Reference).

The enclosure provides Probabilistic Risk Assessment Report PRA-02-04, "SONGS 2/3 Auxiliary Feedwater Pump Surveillance Test Frequency Evaluation," dated June 26, 2002.

If you have any further requests or questions regarding these amendment applications, please contact me, or Mr. Jack Rainsberry (949) 368-7420.

Sincerely,

Enclosure

cc: T. P. Gwynn, Acting Regional Administrator, NRC Region IV
B. M. Pham, NRC Project Manager, San Onofre Units 2 and 3
C. C. Osterholtz, NRC Senior Resident Inspector, San Onofre Units 2 and 3
S. Y. Hsu, Department of Health Services, Radiological Health Branch

P.O. Box 128
San Clemente, CA 92674-0128
949-368-7501
Fax 949-368-7575

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ENCLOSURE

PROBABILISTIC RISK ASSESSMENT REPORT

SONGS 2/3 Auxiliary Feedwater Pump Surveillance Test
Frequency Evaluation

June 26, 2002

REPORT PRA-02-04

Prepared by: M. P. Carr
(M. P. Carr)

Reviewed by: P. Moieni
(P. Moieni)

Approved by: M. P. Carr
(M. P. Carr)

OBJECTIVE

The purpose of this analysis is to determine the increase in core damage frequency (CDF) and large early release frequency (LERF) due to changing the testing of the auxiliary feedwater pumps requirement from a 31 days staggered to a quarterly frequency.

BACKGROUND

The current Units 2 and 3 Technical Specifications require testing the three auxiliary feedwater (AFW) pumps on a 31 day staggered test basis, which results in a requirement to test each pump quarterly. The current surveillance frequency of the turbine-driven AFW pumps (S21305MP140 and S31305MP140) at SONGS Units 2 and 3 is monthly based on administrative controls.

Changing the requirement to test these three pumps on a quarterly versus a 31-day staggered basis would have the following impact:

1. The turbine-driven AFW pump would be tested quarterly instead of monthly.
2. The timing of the testing of each of the three pumps would be independent of each other.
3. The testing of the motor-driven AFW pumps (P504 and P141) would remain on a quarterly basis.

APPROACH

A rigorous evaluation of the impact due to changing the surveillance frequency of the turbine-driven (TD) AFW pumps from monthly to quarterly and all three pumps from a 31-day staggered basis to a quarterly basis would employ a time-dependent risk analysis code such as FRANTIC or SOCRATES. Due to the low number of AFW pump failures in the recent years, development of the Weibull parameters with any certainty is not possible.

Another method of evaluating a change in AFW pump surveillance frequency is to conservatively estimate the degradation in reliability due to reduced testing of the TD AFW pump and the increase in the exposure to having an undiscovered common-cause failure of the motor-driven AFW pumps. Together, these increases will be quantified in terms of core damage and large, early release risk and compared against the acceptance criteria in NRC Regulatory Guide 1.174 (Reference 4).

ANALYSIS

To quantify the increase in core damage and large, early release risk associated with testing all three AFW pumps on a quarterly basis versus a 31-day basis, the following steps will be performed:

- Step 1. Calculate the baseline risk ($CDF_{Baseline}$ and $LERF_{Baseline}$) assuming default average maintenance unavailabilities;
- Step 2. Calculate the new TD AFW pump failure rates due to changing the testing frequency from monthly to quarterly;
- Step 3. Calculate the new motor-driven AFW pump failure rates due to changing the testing frequency from a 31-day staggered basis to quarterly;
- Step 4. Input these new values into the Safety Monitor database and calculate the total risk ($CDF_{AFWQtrly}$ and $LERF_{AFWQtrly}$) due to the testing frequency change;
- Step 5. Subtract the baseline risk from the total risk to obtain the increase in core damage and large, early release risk.

These increases in risk values will then be compared to the acceptance criteria delineated in Regulatory Guide 1.174.

Step 1: Baseline Risk Calculation

The baseline core damage frequency and large, early release frequency are calculated using the SONGS 2/3 Safety Monitor assuming the following:

- Mode 1 Operations
- Internal and External Initiating Events included
- Average component maintenance unavailabilities included
- Single CCW/SWC train operation (P025(A), P112 running)
- No Environment/Test Factors in Effect

The baseline core damage frequency (CDF) and large, early release frequency (LERF) values resulted:

$$CDF_{Baseline} = 4.10E-05/yr$$

$$LERF_{Baseline} = 1.41E-06/yr$$

Step 2: Increased TD AFW Pump Failure Rate

The probability that a standby active component will fail when demanded during an accident is the sum of two failure modes: 1) test-induced failures; or 2) "standby" stresses (i.e., stresses that are present while the component is in standby, such as corrosion, dirt, and lack of lubrication). These failure modes manifest themselves in the number of demand failures per number of demands.

The standby stress component of the failure probability is also known as the component's average "unavailability" and is calculated using the following equation:

$$q = 1/2\lambda T$$

where,

q = the component's average unavailability

λ = the component's failure rate (assumed constant) while in standby, and

T = the time interval between surveillance tests

The average unavailability of the TD AFW pump, calculated by using the above equation, reflects the potential vulnerability of the component to "standby" stresses. Such vulnerability increases with time between operability tests assuming corrective action is taken to restore the failed component identified by the test. Thus, the risk impact of extending the surveillance frequency is reflected by the increased unavailability due to the increase of the interval between surveillance tests. In other words, it is assumed that the failure rates associated with the TD AFW pump could increase up to a factor equal to the proposed increase in surveillance test interval. In this case increasing the testing frequency from monthly to quarterly would increase the TD AFW pump failure to start and failure to run failure rates by a factor of three(3) as follows:

Basic Event ID	Basic Event Description	Default Value	Revised Value
L-TP140-1DR	TD AFW Pump FT Run 24 hrs	8.66E-3	2.60E-2
L-TP140-8HR	TD AFW Pump FT Run 8 hrs	2.89E-3	8.67E-3
L-TP140NR-S	TD AFW Pump FT Start (Non-recoverable)	3.73E-3	1.12E-2
L-TP140RR-S	TD AFW Pump FT Start (Recoverable)	7.47E-3	2.24E-2

This approach is somewhat conservative since the failure probability (number of actual failures/demand) is made up of failures from both "standby" stresses and test-induced failures.

Step 3: Increased MD AFW Pump Failure Rates

Since the motor-driven (MD) AFW pumps are currently tested every three months, the independent MD AFW pump failure rates will remain unchanged for the purpose of this analysis. However, changing the testing of the MD AFW pumps from a 31-day staggered basis to a quarterly basis will impact the MD AFW pump common-cause failure (CCF) rate values since there is an increased time of exposure for a common cause failure mode to go unidentified. The current MD AFW CCF rates in the SONGS 2/3 PRA model are calculated assuming that these pumps are tested on a staggered basis. These CCF rates require revision to reflect testing on a non-staggered basis.

NUREG/CR-5485, "Guidelines on Modeling Common-Cause Failures in PRA," (Reference 1), provides guidance on the treatment of common cause failures based on staggered testing and non-staggered testing.

Per Table 5-5 of Reference 1, for a 1-out-of-2 component system, the common-cause failure based on non-staggered testing is calculated as follows:

$$CCF_{\text{Non-staggered}} = [2\alpha_2 / \alpha_t] Q_t$$

Per Table 5-5 of Reference 1, for a 1-out-of-2 component system, the common-cause failure based on staggered testing is calculated as follows:

$$CCF_{\text{Staggered}} = \alpha_2 Q_t$$

Where

α_2 = fraction of the total frequency of failure events that occur in the system and involve the failure of 2 components due to common cause.

Q_t = the total failure frequency of each component due to all independent and common cause events

and

$$\alpha_t = \alpha_1 + 2\alpha_2 \quad (\text{Eqn 5.9, Ref. 1})$$

Therefore, the relationship, R, between CCF quantification assuming non-staggered testing and CCF quantification assuming staggered testing is

$$R = \frac{CCF_{\text{Non-staggered}}}{CCF_{\text{staggered}}} = \frac{[2\alpha_2 / (\alpha_1 + 2\alpha_2)] Q_t}{\alpha_2 Q_t}$$

Which reduces to

$$R = \frac{2}{(\alpha_1 + 2\alpha_2)}$$

The above alpha factors, α_1 and α_2 , obtained from Table 9-19, "Alpha Factor Distributions, PWR Auxiliary Feedwater Pumps - All Pump Types, Fail to Start" in Reference 2, NUREG/CR-5497, "Common-Cause Failure Parameter Estimations" are 0.8993 and 0.111, respectively.

Therefore, the CCF relationship between non-staggered and staggered testing for the failure to start failure mode is

$$R_{\text{start}} = \frac{2}{(0.8893 + 2*0.111)} = 1.80$$

Similarly, for the failure to run failure mode, α_1 and α_2 , obtained from Table 9-22, "Alpha Factor Distributions, PWR Auxiliary Feedwater Pumps - All Pump Types, Fail to Run" in Reference 2, are 0.9812 and 1.88E-2, respectively.

Therefore, the CCF relationship between non-staggered and staggered testing for the failure to run failure mode is

$$R_{\text{run}} = \frac{2}{(0.9812 + 2*1.88E-2)} = 1.96$$

The common-cause failure basic events associated with the MD AFW pumps will be multiplied by 1.80 and 1.96 for failure to start and failure to run, respectively, to reflect the impact of changing the testing frequency from a 31-day staggered basis to a quarterly (non-staggered) basis as follows:

Basic Event ID	Basic Event Description	Default Value	Revised Value
L-MPCC0001-S	MD AFW Pumps CCF to start (P504&P141)	1.19E-4	2.14E-4
L-MPCC01-1DR	MD AFW Pumps CCF to run 24 hrs (P504&P141)	1.40E-4	2.74E-4

Step 4: Total Risk due to Quarterly Testing Calculation

To determine the total risk due to quarterly testing, the revised basic event values obtained in Steps 2 and 3 are substituted for the default values in the Safety Monitor. The following risk values result

$$\begin{aligned} \text{CDF}_{\text{AFWQtrly}} &= 4.84\text{E-}05/\text{yr} \\ \text{LERF}_{\text{AFWQtrly}} &= 1.72\text{E-}06/\text{yr} \end{aligned}$$

Step 5: Increase in Risk Calculation

To determine the increase in core damage frequency (CDF) and large early release frequency (LERF) due to changing the testing of the auxiliary feedwater pump requirement from a 31-day staggered to a quarterly frequency, the results of Step 1 (baseline risk) are subtracted from the results of Step 4 (total risk due to quarterly testing).

$$\begin{aligned} \text{CDF}_{\text{Increase}} &= \text{CDF}_{\text{AFWQtrly}} - \text{CDF}_{\text{Baseline}} \\ &= 4.84\text{E-}05/\text{yr} - 4.10\text{E-}05/\text{yr} \\ &= 7.4\text{E-}6/\text{yr} \end{aligned}$$

$$\begin{aligned} \text{LERF}_{\text{Increase}} &= \text{LERF}_{\text{AFWQtrly}} - \text{LERF}_{\text{Baseline}} \\ &= 1.72\text{E-}06/\text{yr} - 1.41\text{E-}06/\text{yr} \\ &= 3.1\text{E-}7/\text{yr} \end{aligned}$$

CONCLUSIONS

The results of this evaluation show an increase in core damage and large, early release frequencies that correspond with "small" increases in risk per NRC Regulatory Guide 1.174. These increases in risk are assumed to reflect the bounding impact of the surveillance frequency change. In general, surveillance period changes are not expected to result in as large of proportional changes in reliability as that assumed in this analysis. Therefore, these results are considered to be bounding.

Thus, this evaluation supports the change in the surveillance frequency of the SONGS Units 2 and 3 AFW pumps from a 31-day staggered basis to a quarterly basis.

REFERENCES

- 1) NUREG/CR-5485, "Guidelines on Modeling Common-Cause Failures in Probabilistic Risk Assessment," November 1998.
- 2) NUREG/CR-5497, "Common-Cause Failure Parameter Estimations", October 1998.
- 3) SONGS 2/3 Living PRA
- 4) NRC Regulatory Guide 1.174, An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis.

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Baseline Risk

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
1	7.76E-06	INIT-SEIS4			
2	2.28E-06	H-HASMPLT-X	INIT-SL	NOATWS	RECIRC
3	5.19E-07	INIT-2TB148-7	L-HCCSTMU-U	NOATWS	NOSBO
4	4.72E-07	ATWS	INIT-TT	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
5	4.67E-07	H-MVCC0046-P	INIT-SL	NOATWS	RECIRC
6	3.74E-07	H-HARFCNL-X	INIT-SL	NOATWS	RECIRC
7	3.57E-07	INIT-2AR37102A	L-HCCSTMU-U	NOATWS	NOSBO
8	3.54E-07	INIT-2AR976	L-HCCSTMU-U	NOATWS	NOSBO
9	3.52E-07	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-HCCSTMU-U
		NOATWS	NOSBO		
10	3.25E-07	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-HCCSTMU-U
		NOATWS	NOSBO		
11	2.70E-07	INIT-VR			
12	2.66E-07	INIT-2AC5040-2	L-HCTP140-U	L-MP504-1DR	NOATWS
		NOSBO			
13	2.64E-07	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
14	2.49E-07	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U	K-OORAS-CC-Z
		NOATWS	RECIRC		
15	2.37E-07	INIT-2AC5040-2	L-HCTP140-U	L-MP504-M	NOATWS
		NOSBO			
16	2.08E-07	INIT-SEIS2	L-HCCSTMU-U	NOATWS	NOSBO
17	2.08E-07	INIT-2AC916-3	L-HCCSTMU-U	NOATWS	NOSBO
18	1.81E-07	INIT-SEIS8	U-HCG005SEIU		
19	1.80E-07	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
20	1.80E-07	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
21	1.68E-07	INIT-3TB148-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
22	1.57E-07	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRAINA-M		
23	1.57E-07	INIT-LOP	L-CVCC0001-P	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
24	1.55E-07	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB-M	RECIRC		
25	1.55E-07	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB-M	RECIRC		
26	1.55E-07	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA-M	RECIRC		
27	1.55E-07	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA-M	RECIRC		
28	1.55E-07	ATWS	INIT-PCS	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
29	1.52E-07	INIT-2TB148-7	L-CVCC0001-P	NOATWS	NOSBO
30	1.44E-07	H-HADEBRIS-X	INIT-SL	NOATWS	RECIRC
31	1.43E-07	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-MV9303-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
32	1.43E-07	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-MV9305-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
33	1.43E-07	INIT-2SE30145A	L-MPCC01-1DR	NOATWS	NOSBO
34	1.38E-07	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1-Z	L-HCNSBOMANU	NOATWS	NOLOP

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOSBO			
35	1.38E-07	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2--Z	L-HCNBOMANU	NOATWS	NOLOP
		NOSBO			
36	1.34E-07	H-HAXV7767-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXAZ			
37	1.34E-07	H-HAXV7766-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXAZ			
38	1.34E-07	FTR	INIT-CRHHVAC	L-HCNBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16011DO	
39	1.34E-07	FTR	INIT-CRHHVAC	L-HCNBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C2A08101DO	
40	1.34E-07	FTR	INIT-CRHHVAC	L-HCNBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16021DO	
41	1.23E-07	H-MPCC01-1DR	INIT-SL	NCHCCSINJCTU	NOATWS
42	1.21E-07	INIT-2SE30145A	L-MPCC0001-S	NOATWS	NOSBO
43	1.19E-07	2G2-FAILS	INIT-2AC5035-2	L-HCTP140-U	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
44	1.19E-07	2G3-FAILS	INIT-2AC5040-2	L-HCTP140-U	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
45	1.09E-07	FTR	INIT-CRHHVAC	L-HCNBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-T216X-1DR	
46	1.07E-07	H-MP019-1DR	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
47	1.07E-07	INIT-LOP	L-HCCSTMU-U	NOATWS	NOSBO
		U-HCOSPWR60U	U-HCOSPWRH1U	U-OOPCLOOP-Z	
48	1.07E-07	2G2-FAILS	2G3-FAILS	INIT-SEIS2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCG005SEIU
49	1.05E-07	INIT-2AR37102A	L-CVCC0001-P	NOATWS	NOSBO
50	1.04E-07	INIT-2AR976	L-CVCC0001-P	NOATWS	NOSBO
51	1.03E-07	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-CVCC0001-P
		NOATWS	NOSBO		
52	1.03E-07	H-MVCC0038-P	INIT-SL	NOATWS	RECIRC
53	1.03E-07	H-MVCC0035-P	INIT-SL	NOATWS	RECIRC
54	1.03E-07	H-MVCC0033-P	INIT-SL	NOATWS	RECIRC
55	1.03E-07	H-MVCC0036-P	INIT-SL	NOATWS	RECIRC
56	1.00E-07	H-HAXV7767-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXBZ			
57	1.00E-07	H-HAXV7766-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXBZ			
58	1.00E-07	H-ZZ18TO17-K	INIT-2SE12170	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
59	1.00E-07	H-ZZ18TO17-K	INIT-2SE12170	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		
60	9.95E-08	H-HASMLPT-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		
61	9.95E-08	H-HASMLPT-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
62	9.55E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-CVCC0001-P
		NOATWS	NOSBO		
63	9.12E-08	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		K-OOLOV1--Z	L-HCTP140-U	NOATWS	NOLOP
		NOSBO			
64	9.12E-08	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2--Z	L-HCTP140-U	NOATWS	NOLOP
		NOSBO			
65	9.04E-08	INIT-2SE30145A	L-C2CC0001-N	NOATWS	NOSBO
66	8.96E-08	INIT-2AC3020A-1	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		
67	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-T210X-1DR	
68	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C2A08101DO	
69	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C2A08091DO	
70	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16021DO	
71	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B10011DO	
72	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16011DO	
73	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B10021DO	
74	8.65E-08	INIT-2TB148-6	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
75	8.64E-08	INIT-SL	L-HCCSTMU-U	NOATWS	
76	8.52E-08	E-CFCCW-1YR	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-MP112--M	P-MP307--M
		Z0			
77	8.33E-08	ATWS	INIT-2AR37102A	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
78	8.30E-08	INIT-2AC5040-2	L-C2A0603-N	L-HCTP140-U	NOATWS
		NOSBO			
79	8.26E-08	ATWS	INIT-2AR976	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
80	8.14E-08	FGHCMFWREC-U	INIT-2TB30153	L-HCCSTMU-U	NOATWS
		NOSBO			
81	8.13E-08	E-TRAINA-M	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
82	8.02E-08	E-TRAINB-M	H-MV9303-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
83	8.02E-08	E-TRAINB-M	H-MV9305-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
84	8.02E-08	E-TRAINA-M	H-MV9304-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
85	8.02E-08	E-TRAINA-M	H-MV9302-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
86	7.62E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2--1DR	U-OOPCLOOP-Z		
87	7.42E-08	FTR	INIT-TT	L-HCTP140-U	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
88	7.42E-08	FTR	INIT-TT	L-HCTP140-U	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
89	7.26E-08	INIT-2AR50111	L-HCCSTMU-U	NOATWS	NOSBO
90	7.19E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-T216X-1DR	
91	7.09E-08	H-MP019--1DR	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112--M			
92	6.99E-08	INIT-2TB148-7	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
93	6.76E-08	INIT-LOP	L-CVCC0002-P	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
94	6.68E-08	INIT-2PE453A-3	L-HCTP140-U	L-MP504--1DR	NOATWS
		NOSBO			
95	6.57E-08	INIT-2TB148-7	L-CVCC0002-P	NOATWS	NOSBO
96	6.51E-08	INIT-2AC3020A-A	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
97	6.34E-08	INIT-2AC5040-2	L-HCTP140-U	L-MP504---S	NOATWS
		NOSBO			
98	6.24E-08	INIT-2PE302C	N-HCCSINJCTU	NOATWS	Y-OORV-DEM-Z
		Y-RV0201--N			
99	6.24E-08	INIT-2PE302C	N-HCCSINJCTU	NOATWS	Y-OORV-DEM-Z
		Y-RV0200--N			
100	6.10E-08	INIT-SEIS2	L-CVCC0001-P	NOATWS	NOSBO
101	6.10E-08	INIT-2AC916-3	L-CVCC0001-P	NOATWS	NOSBO
102	5.94E-08	INIT-2YD30200-3	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
103	5.94E-08	INIT-2PE453A-3	L-HCTP140-U	L-MP504---M	NOATWS
		NOSBO			
104	5.80E-08	INIT-2AC3020A-6	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		
105	5.70E-08	H-MP019--1DR	H-MV9305--P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
106	5.70E-08	H-MP019--1DR	H-MV9303--P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
107	5.64E-08	H-MVCC0040-N	H-ZZ18TO17-K	INIT-SL	NOATWS
		RECIRC			
108	5.63E-08	H-MV9302--P	H-MV9305--P	INIT-SL	NOATWS
		RECIRC			
109	5.63E-08	H-MV9302--P	H-MV9303--P	INIT-SL	NOATWS
		RECIRC			
110	5.63E-08	H-MV9304--P	H-MV9305--P	INIT-SL	NOATWS
		RECIRC			
111	5.63E-08	H-MV9303--P	H-MV9304--P	INIT-SL	NOATWS
		RECIRC			
112	5.61E-08	H-HASMLPT-X	INIT-ML	RECIRC	

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
113	5.59E-08	INIT-SEIS8	L-TP140-1DR	L-TP140NR1DR	
114	5.36E-08	INIT-2AC5040-2	L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
115	5.36E-08	INIT-2AC5035-2	L-MP141-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
116	5.26E-08	H-MPCC0001-S	INIT-SL	NCHCCSINJCTU	NOATWS
117	5.13E-08	H-HASMLPT-X	INIT-LL	RECIRC	
118	5.06E-08	INIT-2DG30155-2	L-MP141-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
119	4.95E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-088-Z
		TDS30-1COMPLEMNT			
120	4.95E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-089-Z
		TDS30-1COMPLEMNT			
121	4.76E-08	INIT-2AC5040-2	L-MP504-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
122	4.76E-08	INIT-2AC5035-2	L-MP141-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
123	4.68E-08	INIT-2AR2494	L-HCCSTMU-U	NOATWS	NOSBO
124	4.52E-08	INIT-2AR37102A	L-CVCC0002-P	NOATWS	NOSBO
125	4.49E-08	INIT-2DG30155-2	L-MP141-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
126	4.48E-08	INIT-2AR976	L-CVCC0002-P	NOATWS	NOSBO
127	4.46E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-CVCC0002-P
		NOATWS	NOSBO		
128	4.41E-08	INIT-2PE92A	L-HCCSTMU-U	NOATWS	NOSBO
129	4.41E-08	INIT-2AC3020A-9	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		
130	4.20E-08	H-TRAINB-M	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M			
131	4.18E-08	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-BY008-S	MULTIPLYBY1P54
132	4.18E-08	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-BY007-S	MULTIPLYBY1P54
133	4.17E-08	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP112-M	P-MP113-1DR	P-P113KIRKKEY-K	Z0
134	4.12E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-CVCC0002-P
		NOATWS	NOSBO		
135	4.12E-08	2G2-FAILS	2G3-FAILS	INIT-2PE633B-2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
136	4.12E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
137	4.04E-08	INIT-2DG30155-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
138	4.04E-08	INIT-2DG30158-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
139	4.01E-08	INIT-2SE30145A	L-CVCC0002-N	NOATWS	NOSBO
140	3.86E-08	INIT-2TB30153	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
141	3.77E-08	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495-P	RECIRC		
142	3.77E-08	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495-P	RECIRC		

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Plant: SONG, Unit: 2

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
143	3.65E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC0001-S	
144	3.63E-08	INIT-3PE633B-2	L-HCCSTMU-U	NOATWS	NOSBO
145	3.63E-08	INIT-2PE633B-2	L-HCCSTMU-U	NOATWS	NOSBO
146	3.56E-08	INIT-2AC5044	L-MP141-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
147	3.48E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-3TB148-2	L-HCCSTMU-U
		NOATWS	NOSBO		
148	3.48E-08	INIT-2SE30145A	L-MP141-1DR	L-MP504-1DR	NOATWS
		NOSBO			
149	3.42E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3-1DR			
150	3.42E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3-1DR			
151	3.42E-08	INIT-2AR63116-2	L-HCCSTMU-U	NOATWS	NOSBO
152	3.39E-08	INIT-2TB148-5	L-HCCSTMU-U	NOATWS	NOSBO
153	3.38E-08	INIT-3TB148-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
154	3.38E-08	H-MV9304-P	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
155	3.38E-08	H-MV9302-P	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
156	3.38E-08	H-MV9303-P	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
157	3.38E-08	H-MV9305-P	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
158	3.31E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
159	3.30E-08	FTR	INIT-CCW	P-MP112-M	P-MPCC11-1DR
		Z0			
160	3.29E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140-1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-DGCC01-1DR			
161	3.26E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-HTE001-M		
162	3.22E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE001-M	RECIRC		
163	3.22E-08	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE002-M	RECIRC		
164	3.22E-08	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE002-M	RECIRC		
165	3.22E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE001-M	RECIRC		
166	3.21E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-3TB148-2	L-HCCSTMU-U
		NOATWS	NOSBO		
167	3.21E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-M	U-OOPCLOOP-Z		
168	3.18E-08	INIT-2AC5040-2	L-HCCSTMU-U	NOATWS	NOSBO
169	3.18E-08	INIT-2AC5035-2	L-HCCSTMU-U	NOATWS	NOSBO
170	3.16E-08	INIT-2AC5044	L-MP141-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
171	3.14E-08	F-HCDEPRESSU NOSBO	INIT-2AC3020A-A	L-HCCSTMU-U	NOATWS
172	3.13E-08	ATWS	INIT-2AR37102A	K-OOMECHSCRM	Z126-1
173	3.12E-08	2G2-FAILS NO-RECOVER	2G3-FAILS NOATWS	INIT-2PE453A-2 U-DGCC01-1DR	L-HCNSBOMANU U-OOPCLOOP-Z
174	3.10E-08	ATWS	INIT-2AR976	K-OOMECHSCRM	Z126-1
175	3.09E-08	INIT-2SE30145A NOSBO	L-MP141-1DR	L-MP504-M	NOATWS
176	3.09E-08	INIT-2SE30145A NOSBO	L-MP141-M	L-MP504-1DR	NOATWS
177	3.06E-08	INIT-2SE30145A	L-HCCSTMU-U	NOATWS	NOSBO
178	3.06E-08	FGHCCNDREC-U L-TP140NR1DR	FGHCMFWREC-U NOATWS	INIT-2TK30161A-2 NOSBO	L-MP141-1DR
179	3.05E-08	2G3-FAILS L-HCAFWPC-FU U-DG2G3-1DR	INIT-2AC3020A-1 NO-RECOVER U-OOPCLOOP-Z	INJECT NOATWS	L-HCAFWPA-FU NOSBO
180	3.03E-08	H-ZZ18TO17-K NOATWS	INIT-SL P-TRAINA-M	K-HCRAS-U RECIRC	K-OORAS-B-Z
181	3.03E-08	H-ZZ18TO17-K NOATWS	INIT-SL P-TRAINB-M	K-HCRAS-U RECIRC	K-OORAS-A-Z
182	3.03E-08	INIT-SL P-TRAINB-M	K-HCCIAS-U	K-OOCIAS-A-Z	NOATWS
183	3.00E-08	INIT-2DG30155-2 URECB2A06-Z	L-HCCSTMU-U	NOATWS	NOSBO
184	3.00E-08	H-CVCC0039-P RECIRC	H-ZZ18TO17-K	INIT-SL	NOATWS
185	3.00E-08	H-CVCC0040-P LOCA	H-ZZ18TO17-K NOATWS	INIT-SL	INJECT
186	2.94E-08	F-HCDEPRESSU L-TP140NR1DR	FGHCMFWREC-U NOATWS	INIT-2TK30161A-2 NOSBO	L-MP141-M
187	2.92E-08	2G2-FAILS NO-RECOVER	2G3-FAILS NOATWS	INIT-3PE453A-2 U-DGCC01-1DR	L-HCNSBOMANU U-OOPCLOOP-Z
188	2.90E-08	FGHCCNDREC-U NOSBO	INIT-2AC3020A-A	L-HCCSTMU-U	NOATWS
189	2.86E-08	INIT-2AC5035-2 NOATWS	L-HCHV4716PU NOSBO	L-MP141-1DR	L-MV4716-P
190	2.86E-08	INIT-2AC5040-2 NOATWS	L-HCHV4716PU NOSBO	L-MP504-1DR	L-MV4716-P
191	2.84E-08	INIT-LL P-P113KIRKKEY-K	P-HCSWCKK-LL	P-MP112-M	P-MP113-S
192	2.81E-08	E-CFCCW-1YR FTR	E-CV103-N INIT-CCW	E-MP025-1DR Z0	E-ZZ25TO24-K
193	2.80E-08	INIT-2AC916-3 NOATWS MULTIPLYBYP4	L-HCTP140-U NOLOCA	M-HCBCBFAILU NOLOP	M-HCNOSIAS-U NOSBO
194	2.80E-08	E-HCSWINGB-Z INIT-SL RECIRC	E-MP026-M K-HCRAS-U	E-ZZ25TO24-K K-OORAS-A-Z	H-ZZ18TO17-K NOATWS
195	2.80E-08	E-HCSWINGB-Z K-HCCIAS-U	E-MP026-M K-OOCIAS-A-Z	E-ZZ25TO24-K NOATWS	INIT-SL
196	2.79E-08	H-C2CC0001-N NOATWS	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
197	2.78E-08	INIT-2AC5040-2 NOSBO	L-CV547-N	L-HCTP140-U	NOATWS
198	2.75E-08	INIT-2PE453A-2	L-HCCSTMU-U	NOATWS	NOSBO

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
199	2.72E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141—M
		L-TP140NR1DR	NOATWS	NOSBO	
200	2.70E-08	INIT-2PE302C	N-HCCSINJCTU	NOATWS	Z0
201	2.70E-08	INIT-2DG30155-2	L-HCHV4716PU	L-MP141—1DR	L-MV4716—P
		NOATWS	NOSBO	URECB2A06—Z	
202	2.69E-08	ATWS	INIT-TT	K-OOMECHSCRM	KTT30-3
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
203	2.69E-08	ATWS	D-HCBORATE-U	INIT-TT	K-OOMECHSCRM
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
204	2.67E-08	INIT-2AC5040-2	L-FLP504-1DC	L-HCTP140—U	NOATWS
		NOSBO			
205	2.63E-08	INIT-SEIS2	L-CVCC0002-P	NOATWS	NOSBO
206	2.63E-08	INIT-2AC916-3	L-CVCC0002-P	NOATWS	NOSBO
207	2.62E-08	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0201—P
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
208	2.62E-08	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0200—P
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
209	2.57E-08	INIT-3PE453A-2	L-HCCSTMU—U	NOATWS	NOSBO
210	2.57E-08	INIT-3AC5034	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
211	2.57E-08	INIT-3AC5060	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
212	2.55E-08	H-MVCC0040-P	INIT-SL	NCHCCSINJCTU	NOATWS
213	2.55E-08	INIT-2TB30153	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
214	2.54E-08	INIT-2AC5035-2	L-HCHV4716PU	L-MP141—M	L-MV4716—P
		NOATWS	NOSBO		
215	2.54E-08	INIT-2AC5040-2	L-HCHV4716PU	L-MP504—M	L-MV4716—P
		NOATWS	NOSBO		
216	2.54E-08	INIT-SL	L-CVCC0001-P	NOATWS	
217	2.54E-08	INIT-3TB148-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
218	2.51E-08	INIT-2DG30158-2	L-HCTP140—U	L-MP504—1DR	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04—Z	
219	2.44E-08	FTR	INIT-PCS	L-HCTP140—U	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
220	2.44E-08	FTR	INIT-PCS	L-HCTP140—U	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
221	2.40E-08	INIT-LDC2	L-HCCSTMU—U	L-HCMP504C4V	NOATWS
		MULTIPLYBY10			
222	2.40E-08	INIT-LDC1	L-HCCSTMU—U	L-HCMP141C4V	NOATWS
		MULTIPLYBY10			
223	2.40E-08	INIT-2DG30155-2	L-HCHV4716PU	L-MP141—M	L-MV4716—P
		NOATWS	NOSBO	URECB2A06—Z	
224	2.40E-08	2G3-FAILS	INIT-2AC5040-2	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOLOP	NOSBO	U-C2A0618—P
225	2.40E-08	2G2-FAILS	INIT-2AC5035-2	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOLOP	NOSBO	U-C2A0418—P
226	2.39E-08	FGHCMFWREC-U	INIT-2TB30153	L-CVCC0001-P	NOATWS
		NOSBO			
227	2.33E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-1	L-TP140NR1DR

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOSBO		
228	2.33E-08	FTR	INIT-CCW	NOSBO	P-TRAINA--M
		U-BCB2--1DR	Z0		
229	2.33E-08	INIT-LOP	L-TK121--D	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
230	2.33E-08	INIT-LOP	L-TK120--D	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
231	2.31E-08	INIT-2AC5035-2	L-MP141-1DR	L-TP140NR-S	NOATWS
		NOSBO			
232	2.31E-08	INIT-2AC5040-2	L-MP504-1DR	L-TP140NR-S	NOATWS
		NOSBO			
233	2.28E-08	INIT-2AC5040-2	L-HAXV533-X	L-HCTP140-U	NOATWS
		NOSBO			
234	2.27E-08	INIT-2TB148-7	L-TK121--D	NOATWS	NOSBO
235	2.27E-08	INIT-2TB148-7	L-TK120--D	NOATWS	NOSBO
236	2.26E-08	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-MV6495-P		
237	2.25E-08	FTR	INIT-TT	L-HCNSBOMANU	NOATWS
		NOSBO	U-BCCC01-1DR		
238	2.24E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M	RECIRC		
239	2.24E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M	RECIRC		
240	2.23E-08	INIT-2DG30158-2	L-HCTP140-U	L-MP504-M	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04-Z	
241	2.18E-08	INIT-2DG30155-2	L-MP141-1DR	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		
242	2.15E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-1	L-TP140NR1DR
		NOATWS	NOSBO		
243	2.13E-08	INIT-2AR50111	L-CVCC0001-P	NOATWS	NOSBO
244	2.12E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-089-Z
		TDS30-1			
245	2.12E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-088-Z
		TDS30-1			
246	2.11E-08	INIT-2AC5044	L-HCCSTMU-U	NOATWS	NOSBO
247	2.10E-08	INIT-2TB148-7	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
248	2.09E-08	FGHCMFWREC-U	INIT-2PE453A-1	L-HCCSTMU-U	NOATWS
		NOSBO			
249	2.09E-08	FGHCMFWREC-U	INIT-3PE633B-1	L-HCCSTMU-U	NOATWS
		NOSBO			
250	2.09E-08	FGHCMFWREC-U	INIT-3PE453A-1	L-HCCSTMU-U	NOATWS
		NOSBO			
251	2.09E-08	FGHCMFWREC-U	INIT-2PE633B-1	L-HCCSTMU-U	NOATWS
		NOSBO			
252	2.08E-08	INIT-2PE453A-3	L-C2A0603-N	L-HCTP140-U	NOATWS
		NOSBO			
253	2.08E-08	INIT-3AC5034	L-HCTP140-U	M-CHE-336-M	M-HCVENT-EE
		NOATWS	NOSBO		
254	2.08E-08	INIT-3AC5060	L-HCTP140-U	M-CHE-335-M	M-HCVENT-EE
		NOATWS	NOSBO		
255	2.07E-08	H-MP019-S	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRAINA-M		
256	2.07E-08	INIT-2AC5040-2	L-MP504-1DR	L-TP140-M	NOATWS
		NOSBO			

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
257	2.07E-08	INIT-2AC5035-2 NOSBO	L-MP141-1DR	L-TP140-M	NOATWS
258	2.06E-08	FGHCMFWREC-U NOSBO	INIT-2YD30200-1	L-HCCSTMU-U	NOATWS
259	2.05E-08	INIT-2AC5035-2 NOSBO	L-MP141-M	L-TP140NR-S	NOATWS
260	2.05E-08	INIT-2AC5040-2 NOSBO	L-MP504-M	L-TP140NR-S	NOATWS
261	2.04E-08	H-MVCC0046-P Y-OORV-DEM-Z	INIT-PCS Y-RV0200-N	NOATWS	RECIRC
262	2.04E-08	H-MVCC0046-P Y-OORV-DEM-Z	INIT-PCS Y-RV0201-N	NOATWS	RECIRC
263	2.04E-08	FTR NOSBO	INIT-2AC5035-2 U-B4D1-1DR	L-HCNSBOMANU MULTIPLYBY17P1	NOATWS
264	2.04E-08	FTR NOSBO	INIT-2AC5040-2 U-B4D2-1DR	L-HCNSBOMANU MULTIPLYBY17P1	NOATWS
265	2.02E-08	2G3-FAILS NOLOP	E-NCL-A-K U-DG2G3-1DR	INIT-SEIS5A	NOATWS
266	2.02E-08	2G2-FAILS NOLOP	E-NCL-B-K U-DG2G2-1DR	INIT-SEIS5A	NOATWS
267	2.02E-08	2G2-FAILS NO-RECOVER	2G3-FAILS NOATWS	INIT-SEIS2 U-C2CC0001-P	L-HCNSBOMANU
268	2.01E-08	INIT-2PE302C	L-HCCSTMU-U	NOATWS	NOSBO
269	2.01E-08	INIT-2AC5035-2 NOSBO	L-MP141-1DR	L-MV4716-M	NOATWS
270	2.01E-08	INIT-2AC5040-2 NOSBO	L-MP504-1DR	L-MV4716-M	NOATWS
271	1.98E-08	H-C2A0608-N NOATWS	H-ZZ18TO17-K P-TRAINA-M	INIT-SL	NCHCCSINJCTU
272	1.95E-08	INIT-2DG30155-2 NOSBO	L-MP141-1DR URECB2A06-Z	L-TP140-M	NOATWS
273	1.94E-08	INIT-LOP U-HCOSPWR60U	L-CVCC0001-P U-OOGWLOOP-Z	NOATWS	NOSBO
274	1.94E-08	INIT-2DG30155-2 NOSBO	L-MP141-M URECB2A06-Z	L-TP140NR-S	NOATWS
275	1.92E-08	FTR NOSBO	INIT-2DG30155-2 U-B4D1-1DR	L-HCNSBOMANU URECB2A06-Z	NOATWS MULTIPLYBY17P1
276	1.90E-08	INIT-2DG30155-2 NOSBO	L-MP141-1DR URECB2A06-Z	L-MV4716-M	NOATWS
277	1.90E-08	INIT-2AC5044 NOATWS	L-HCHV4716PU NOSBO	L-MP141-1DR	L-MV4716-P
278	1.90E-08	FGHCMFWREC-U NOSBO	INIT-2TB148-2	L-HCCSTMU-U	NOATWS
279	1.88E-08	2G2-FAILS NOLOP	2G3-FAILS U-DG2G2-1DR	INIT-SEIS5 U-DG2G3-1DR	NOATWS
280	1.88E-08	2G2-FAILS L-MV4716-P	2G3-FAILS NO-RECOVER	INIT-SEIS2 NOATWS	L-HCHV4716PU U-DGCC01-1DR
281	1.84E-08	2G3-FAILS K-OOLOV2-Z NOLOP	INIT-2AC5040-2 L-TP140-1DR NOSBO	INJECT L-TP140NR1DR	K-HCLOVSIG-V NOATWS
282	1.84E-08	2G2-FAILS K-OOLOV1-Z NOLOP	INIT-2AC5035-2 L-TP140-1DR NOSBO	INJECT L-TP140NR1DR	K-HCLOVSIG-V NOATWS
283	1.81E-08	H-HCP17STRTU INIT-SL	H-MP018-1DR NCHCCSINJCTU	H-MP019-1DR NOATWS	H-ZZ18TO17-K

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
284	1.80E-08	INIT-3TB148-2	L-HCHV4716PU	L-MV4716—P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
285	1.80E-08	INIT-2AC3020A-2	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		
286	1.80E-08	2G3-FAILS	INIT-2AC5040-2	L-HCTP140—U	NOATWS
		NOLOP	NOSBO	U-BY008—S	
287	1.80E-08	2G2-FAILS	INIT-2AC5035-2	L-HCTP140—U	NOATWS
		NOLOP	NOSBO	U-BY007—S	
288	1.79E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TB148-6	L-HCCSTMU—U
		NOATWS	NOSBO		
289	1.79E-08	INIT-2AC5040-2	L-MP504—M	L-MV4716—M	NOATWS
		NOSBO			
290	1.78E-08	INIT-2TB148-7	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
291	1.77E-08	ATWS	INIT-LOP	K-OOMECHSCRM	U-OOPCLOOP-Z
		Z126-1COMPLEMENT	Z250-2		
292	1.77E-08	INIT-2AC5047	L-HCTP140—U	L-MP504—1DR	NOATWS
		NOSBO	U-HCSPAREBCV		
293	1.76E-08	E-CV103—N	E-HCSWINGB-Z	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-TRAINA—M		
294	1.74E-08	INIT-2TB148-6	L-TP140—1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
295	1.69E-08	ATWS	INIT-2AR50111	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
296	1.69E-08	INIT-2AC5044	L-HCHV4716PU	L-MP141—M	L-MV4716—P
		NOATWS	NOSBO		
297	1.67E-08	INIT-2AC5035-2	L-C2A0404—N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
298	1.67E-08	INIT-2AC5040-2	L-C2A0603—N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
299	1.66E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCG005FIRU
		U-OOPCLOOP-Z			
300	1.66E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TB148-6	L-HCCSTMU—U
		NOATWS	NOSBO		
301	1.64E-08	H-HARFCNL—X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
302	1.64E-08	H-HARFCNL—X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
303	1.64E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCTP140—U	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2—1DR	U-OOPCLOOP-Z		
304	1.64E-08	INIT-SLB	K-HCMSIS—U	K-OOMSISCC-Z	NOATWS
		T-OOE-088—Z	TDS30-1COMPLEMNT		
305	1.64E-08	INIT-SLB	K-HCMSIS—U	K-OOMSISCC-Z	NOATWS
		T-OOE-089—Z	TDS30-1COMPLEMNT		
306	1.62E-08	INIT-2AC5035-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
307	1.62E-08	INIT-2AC5040-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
308	1.61E-08	INIT-SEIS7	U-HCG005SEIU		
309	1.59E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPB-FU	L-HCAFWPC-FU	NO-RECOVER	NOATWS

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOSBO	U-OOPCLOOP-Z		
310	1.59E-08	INIT-2PE453A-3	L-HCTP140-U	L-MP504-S	NOATWS
		NOSBO			
311	1.58E-08	INIT-2DG30155-2	L-C2A0404-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
312	1.57E-08	H-HCP17STRTU	H-MP018-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	P-TRAINB-M	
313	1.57E-08	E-CFCCW-1YR	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-MP112-M	P-MP307-M
		Y1			
314	1.57E-08	INIT-2AC5047	L-HCTP140-U	L-MP504-M	NOATWS
		NOSBO	U-HCSPAREBCV		
315	1.57E-08	E-TRAINB-M	INIT-SL	K-HCCIAS-U	K-OOCIAS-A-Z
		NOATWS			
316	1.57E-08	E-TRAINB-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NOATWS	RECIRC	
317	1.57E-08	E-TRINA-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NOATWS	RECIRC	
318	1.56E-08	INIT-2AC3026	L-HCCSTMU-U	NOATWS	NOSBO
319	1.56E-08	INIT-2AR37102A	L-TK120-D	NOATWS	NOSBO
320	1.56E-08	INIT-2AR37102A	L-TK121-D	NOATWS	NOSBO
321	1.55E-08	H-HASMLPT-X	INIT-TT	NOATWS	RECIRC
		Y-OORVTTDEMZ	Y-RV0201-N		
322	1.55E-08	H-HASMLPT-X	INIT-TT	NOATWS	RECIRC
		Y-OORVTTDEMZ	Y-RV0200-N		
323	1.55E-08	INIT-2AR976	L-TK121-D	NOATWS	NOSBO
324	1.55E-08	INIT-2AR976	L-TK120-D	NOATWS	NOSBO
325	1.54E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-TK121-D
		NOATWS	NOSBO		
326	1.54E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-TK120-D
		NOATWS	NOSBO		
327	1.54E-08	FGHCMFWREC-U	INIT-2PE453A-4	L-HCCSTMU-U	NOATWS
		NOSBO			
328	1.53E-08	INIT-2AC5044	L-MP141-1DR	L-TP140NR-S	NOATWS
		NOSBO			
329	1.53E-08	2G2-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-1DR	U-OOPCLOOP-Z		
330	1.53E-08	ATWS	INIT-3TB148-2	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
331	1.52E-08	INIT-LL	P-C2A0610-N	P-HCSWCKK-LL	P-MP112-M
		P-P113KIRKKEY-K			
332	1.52E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140NR-S
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
333	1.51E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30158-1	L-HCCSTMU-U
		NOATWS	NOSBO		
334	1.51E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30155-1	L-HCCSTMU-U
		NOATWS	NOSBO		
335	1.50E-08	FTR	INIT-TT	L-TP140-1DR	L-TP140NR1DR
		M-FNA-1651DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
336	1.50E-08	FTR	INIT-TT	L-TP140-1DR	L-TP140NR1DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
337	1.49E-08	H-MSCC0044-N	H-ZZ18TO17-K	INIT-SL	NOATWS

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		RECIRC			
338	1.49E-08	FTR	INIT-TT	L-HCTP140-U	NOATWS
		NOSBO	U-BCCC01-1DR		
339	1.48E-08	E-NCL-A-K	H-ZZ18TO17-K	INIT-SEIS5A	M-CHE-335-M
		M-DUMMY-Z	NOATWS		
340	1.48E-08	H-MVCC0039-P	INIT-ML		
341	1.47E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC0001-S	U-HCG005SEIU
342	1.46E-08	INIT-3TB148-1	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
343	1.46E-08	INIT-3TB148-2	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
344	1.45E-08	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-HCP17STRTU
		H-MP018-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
345	1.44E-08	INIT-2AR37102A	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
346	1.44E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3-M			
347	1.44E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3-M			
348	1.43E-08	H-CV001-N	H-HC9300-01U	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
349	1.43E-08	H-CV002-N	H-HC9300-01U	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
350	1.43E-08	H-MSCC0001-N	H-ZZ18TO17-K	INIT-SL	NOATWS
		RECIRC			
351	1.43E-08	INIT-2AR976	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
352	1.42E-08	E-CFCCW-1YR	E-MP024-M	E-MP025-M	E-MP026-1DR
		E-ZZ25TO24-K	FTR	INIT-CCW	Z0
353	1.42E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-TK121-D
		NOATWS	NOSBO		
354	1.42E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-TK120-D
		NOATWS	NOSBO		
355	1.42E-08	E-TRAINB-M	H-MV9303-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
356	1.42E-08	E-TRAINB-M	H-MV9305-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
357	1.41E-08	INIT-2TB148-7	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
358	1.41E-08	H-MP019-S	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
359	1.39E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30155-1	L-HCCSTMU-U
		NOATWS	NOSBO		
360	1.39E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-1	L-HCCSTMU-U
		NOATWS	NOSBO		
361	1.39E-08	FTR	INIT-CCW	P-TRAINA-M	U-C3B06141DO
		Z0			
362	1.39E-08	FTR	INIT-CCW	P-TRAINA-M	U-C4D203-1DO

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Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		Z0			
363	1.39E-08	FTR	INIT-CCW	NOSBO	P-TRAINA—M
		U-C4D202-1DO	Z0		
364	1.39E-08	FTR	INIT-CCW	P-TRAINA—M	U-C2A06201DO
		Z0			
365	1.39E-08	FTR	INIT-CCW	P-TRAINA—M	U-C3B06011DO
		Z0			
366	1.39E-08	FTR	INIT-CCW	NOSBO	P-TRAINA—M
		U-C3BZ03-1DO	Z0		
367	1.38E-08	INIT-SL	NOATWS	P-HCSWCKK-SL-CCW	P-MP112—M
		P-MP113—S	P-P113KIRKKEY-K		
368	1.38E-08	2G2-FAILS	H-ZZ18TO17-K	INIT-SEIS5	M-CHE-335—M
		M-DUMMY—Z	NOATWS	NOLOP	U-DG2G2—1DR
369	1.37E-08	INIT-2AR2494	L-CVCC0001-P	NOATWS	NOSBO
370	1.37E-08	INIT-2AC5044	L-MP141—1DR	L-TP140—M	NOATWS
		NOSBO			
371	1.37E-08	FGHCMFWREC-U	INIT-2AC5035-1	L-HCCSTMU—U	NOATWS
		NOSBO			
372	1.37E-08	FGHCMFWREC-U	INIT-2AC8570-1	L-HCCSTMU—U	NOATWS
		NOSBO			
373	1.37E-08	FGHCMFWREC-U	INIT-2AC5040-1	L-HCCSTMU—U	NOATWS
		NOSBO			
374	1.36E-08	INIT-2AC5044	L-MP141—M	L-TP140NR—S	NOATWS
		NOSBO			
375	1.36E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140—M
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
376	1.36E-08	H-MVCC0039-P	INIT-LL		
377	1.35E-08	INIT-3PE453A-3	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
378	1.35E-08	INIT-2AC3020A-8	L-HCCSTMU—U	NOATWS	NOSBO
379	1.35E-08	INIT-2PE453A-3	L-MP504—1DR	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
380	1.34E-08	H-C2A0608—N	H-TRAINA—M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
381	1.34E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2—S	U-OOPCLOOP-Z		
382	1.33E-08	INIT-2AC5044	L-MP141—1DR	L-MV4716—M	NOATWS
		NOSBO			
383	1.33E-08	INIT-2TB148-7	L-C2CC0001-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
384	1.32E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-MV4716—M
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
385	1.32E-08	INIT-LOP	L-HCCSTMU—U	NOATWS	NOSBO
		U-HCOSPWR60U	U-HCOSPWRH1U	U-OOGWLOOP-Z	
386	1.32E-08	H-HCP17STRTU	H-MPCC04-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
387	1.32E-08	E-HCSWINGB-Z	E-MP026—1DR	E-ZZ25TO24-K	FTR
		INIT-SL	NOATWS	P-TRAINA—M	
388	1.31E-08	INIT-2AC3020A-A	L-TP140—1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
389	1.31E-08	INIT-2AC3020A-1	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141—1DR
		NOATWS	NOSBO		
390	1.31E-08	INIT-2TB148-6	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U

Safety Monitor 3.9 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
391	1.30E-08	INIT-3TB148-2	L-TP140—M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
392	1.30E-08	INIT-2PE92A	L-CVCC0001-P	NOATWS	NOSBO
393	1.29E-08	INIT-LOP	L-MPCC01-1DR	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCR			
394	1.28E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G3—M	U-OOPCLOOP-Z		
395	1.28E-08	2G2-FAILS	INIT-2AC5035-2	L-HCHV4716PU	L-MV4716—P
		NOATWS	NOLOP	NOSBO	U-C2A0418—P
396	1.28E-08	2G3-FAILS	INIT-2AC5040-2	L-HCHV4716PU	L-MV4716—P
		NOATWS	NOLOP	NOSBO	U-C2A0618—P
397	1.28E-08	DLMPSEAL-4HD	E-CFCCW—1YR	E-HCSWINGB-Z	E-MP026—1DR
		E-ZZ25TO24-K	FTR	INIT-CCW	P-MP112—M
		P-MP307—M			
398	1.28E-08	INIT-2AC5035-2	L-MP141—S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
399	1.28E-08	INIT-2AC5040-2	L-MP504—S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
400	1.27E-08	INIT-3TB148-2	L-MV4716—M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
401	1.27E-08	INIT-2AC8570-4	L-HCCSTMU—U	NOATWS	NOSBO
402	1.23E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2YD30200-3	L-HCCSTMU—U
		NOATWS	NOSBO		
403	1.23E-08	INIT-2AC5035-2	L-MP141—1DR	L-SV4700—J	NOATWS
		NOSBO			
404	1.23E-08	INIT-2AC5040-2	L-MP504—1DR	L-SV4700—J	NOATWS
		NOSBO			
405	1.23E-08	INIT-TT	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCOSPWR60U	U-ZZCNDLP—Z		
406	1.23E-08	INIT-2AR37102A	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
407	1.22E-08	E-MP025—M	E-MPCC03-1DR	E-ZZ25TO24-K	FTR
		INIT-CCW	Z0		
408	1.22E-08	INIT-2AR976	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
409	1.21E-08	H-MP019—1DR	H-ZZ18TO17-K	INIT-ML	P-TRAINA—M
410	1.20E-08	E-TRAINA—M	FTR	INIT-CCW	NOSBO
		U-BCB2—1DR	Z0		
411	1.20E-08	INIT-2DG30155-2	L-MP141—S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06—Z	
412	1.20E-08	E-CFCCW—1YR	E-HCSWINGB-Z	E-MP026—1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-HCSWCKK-SL-CCW	P-MP112—M
		Z0			
413	1.20E-08	INIT-2YD30200-3	L-TP140—1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
414	1.20E-08	INIT-2PE453A-3	L-MP504—M	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
415	1.18E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-N	
416	1.18E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140-8HR
		L-TP140NR1DR	NO-RECOVER	NOATWS	U-DGCC01-1DR
417	1.17E-08	2G2-FAILS	2G3-FAILS	INIT-3PE453A-2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCG005FIRU
		U-OOPCLOOP-Z			
418	1.17E-08	2G2-FAILS	2G3-FAILS	INIT-2AC3020A-1	L-HCAFWPC-FU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
419	1.17E-08	INIT-SGR	NOATWS	SDC30-3	T-HCDEPRESEU
420	1.17E-08	INIT-SL	NOATWS	P-MP112—M	P-MPCC0011-S
421	1.17E-08	2G2-FAILS	INIT-LOP	L-HCTP140-U	L-MP504-1DR
		NO-RECOVER	NOATWS	NOSBO	U-C2A0418-P
		U-HCOSPWR60U	U-OOPCLOOP-Z		
422	1.16E-08	INIT-2AC3020A-1	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141—M
		NOATWS	NOSBO		
423	1.16E-08	INIT-2DG30155-2	L-MP141-1DR	L-SV4700—J	NOATWS
		NOSBO	URECB2A06-Z		
424	1.16E-08	FTR	INIT-CCW	NOSBO	P-MP112—M
		P-MP307—M	U-BCB2—1DR	Z0	
425	1.16E-08	INIT-SLB	NOATWS	T-HV8204—N	T-HV8205—N
		T-OOE-088-Z	TDS30-1COMPLEMNT		
426	1.16E-08	INIT-SLB	NOATWS	T-HV8204—N	T-HV8205—N
		T-OOE-089-Z	TDS30-1COMPLEMNT		
427	1.16E-08	INIT-SL	NOATWS	P-C2CC0011-N	P-MP112—M
428	1.15E-08	H-MVCC0046-P	INIT-ML	RECIRC	
429	1.14E-08	INIT-2TB148-5	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
430	1.14E-08	H-HASMLT-X	INIT-LOP	NOATWS	NOSBO
		RECIRC	U-HCOSPWR60U	U-OOPCLOOP-Z	Y-OORV-DEM-Z
		Y-RV0201—N	MULTIPLYBY2P7		
431	1.14E-08	H-HASMLT-X	INIT-LOP	NOATWS	NOSBO
		RECIRC	U-HCOSPWR60U	U-OOPCLOOP-Z	Y-OORV-DEM-Z
		Y-RV0200—N	MULTIPLYBY2P7		
432	1.14E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2YD30200-3	L-HCCSTMU-U
		NOATWS	NOSBO		
433	1.13E-08	INIT-2AC3027	L-HCCSTMU-U	NOATWS	NOSBO
434	1.13E-08	H-MVCC0044-P	INIT-SL	NOATWS	RECIRC
435	1.13E-08	H-MVCC0045-P	INIT-SL	NOATWS	RECIRC
436	1.13E-08	H-MVCC0043-P	INIT-SL	NOATWS	RECIRC
437	1.13E-08	H-MVCC0042-P	INIT-SL	NOATWS	RECIRC
438	1.13E-08	FTR	INIT-CCW	P-TRAINA—M	U-T26X—1DR
		Z0			
439	1.12E-08	FTR	INIT-TT	L-HCNSBOMANU	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-HCSPAREBCV	
440	1.12E-08	FTR	INIT-TT	L-HCNSBOMANU	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-HCSPAREBCV	
441	1.12E-08	INIT-2TB148-7	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716—P
		NOATWS	NOSBO		
442	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U
		K-OORAS-A-Z	NCHCCSINJCTU	NOATWS	RECIRC
443	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	K-HCCIAS—U
		K-OOCIAS-A-Z	NCHCCSINJCTU	NOATWS	

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
444	1.11E-08	INIT-2AC5043	L-HCCSTMU-U	NOATWS	NOSBO
445	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-LL	P-TRAINA-M
446	1.11E-08	2G2-FAILS	E-MP026-M	E-ZZ25TO24-K	INIT-SEIS5
		NOATWS	NOLOP	U-DG2G2-1DR	
447	1.11E-08	INIT-2AC5044	L-C2A0404-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
448	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-HCSWCKK-SL-CCW	P-MP112-M	
449	1.10E-08	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NOATWS	RECIRC	
450	1.10E-08	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NOATWS	RECIRC	
451	1.10E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NOATWS	RECIRC	
452	1.10E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NOATWS	RECIRC	
453	1.10E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NOATWS	RECIRC	
454	1.10E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NOATWS	RECIRC	
455	1.10E-08	FGHCMFWREC-U	INIT-2PE633B-4	L-HCCSTMU-U	NOATWS
		NOSBO			
456	1.09E-08	INIT-2AC5035-2	L-MP141-M	L-SV4700-J	NOATWS
		NOSBO			
457	1.09E-08	INIT-2AC5040-2	L-MP504-M	L-SV4700-J	NOATWS
		NOSBO			
458	1.09E-08	INIT-SL	L-CVCC0002-P	NOATWS	
459	1.09E-08	ATWS	INIT-2AR2494	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
460	1.09E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HCSWCKK-SL-CCW	P-MP112-M	RECIRC	
461	1.09E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HCSWCKK-SL-CCW	P-MP112-M	RECIRC	
462	1.09E-08	H-ZZ18TO17-K	INIT-PCS	K-HCRAS-U	K-OORAS-CC-Z
		NOATWS	RECIRC	Y-OORV-DEM-Z	Y-RV0200-N
463	1.09E-08	H-ZZ18TO17-K	INIT-PCS	K-HCRAS-U	K-OORAS-CC-Z
		NOATWS	RECIRC	Y-OORV-DEM-Z	Y-RV0201-N
464	1.08E-08	INIT-2SE30145A	L-C2A0603-N	L-MP141-1DR	NOATWS
		NOSBO			
465	1.08E-08	INIT-2SE30145A	L-C2A0404-N	L-MP504-1DR	NOATWS
		NOSBO			
466	1.07E-08	FGHCMFWREC-U	INIT-2AC3020C	L-HCCSTMU-U	NOATWS
		NOSBO			
467	1.07E-08	INIT-2AC5035-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
468	1.07E-08	INIT-2AC5040-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
469	1.07E-08	INIT-2AC8571-1	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
470	1.07E-08	H-HCP17STRTU	H-MP018-1DR	H-TRAINB-M	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	
471	1.07E-08	E-TRAINA-M	H-MP019-S	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
472	1.07E-08	INIT-2PE633B-2	L-CVCC0001-P	NOATWS	NOSBO
473	1.07E-08	INIT-3PE633B-2	L-CVCC0001-P	NOATWS	NOSBO

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
474	1.06E-08	INIT-2TB148-7	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
475	1.05E-08	H-MSBJ33--N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA--M	RECIRC		
476	1.05E-08	H-MSBE35--N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB--M	RECIRC		
477	1.05E-08	H-MSBY28--N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB--M	RECIRC		
478	1.05E-08	H-MSBJ34--N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA--M	RECIRC		
479	1.05E-08	H-TK006-1DD	H-ZZ18TO17-K	INIT-SGR	INJECT
		LOCA	NOATWS		
480	1.05E-08	H-MVCC0046-P	INIT-LL	RECIRC	
481	1.05E-08	H-TK005-1DD	H-ZZ18TO17-K	INIT-SGR	INJECT
		LOCA	NOATWS		
482	1.05E-08	A-C2A0607--N	INIT-LL	P-HCSWCKK-LL	P-MP112--M
483	1.04E-08	2G2-FAILS	INIT-LOP	L-HCTP140-U	L-MP504--M
		NO-RECOVER	NOATWS	NOSBO	U-C2A0418-P
		U-HCOSPWR60U	U-OOPCLOOP-Z		
484	1.03E-08	INIT-2DG30155-2	L-MP141--M	L-SV4700--J	NOATWS
		NOSBO	URECB2A06-Z		
485	1.03E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-C2A0404-N
		L-TP140NR1DR	NOATWS	NOSBO	
486	1.03E-08	2G3-FAILS	INIT-2AC5040-2	L-TP140NR-S	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
487	1.03E-08	2G2-FAILS	INIT-2AC5035-2	L-TP140NR-S	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
488	1.03E-08	FGHCMFWREC-U	INIT-2TB30153	L-CVCC0002-P	NOATWS
		NOSBO			
489	1.03E-08	2G2-FAILS	2G3-FAILS	INIT-2PE633B-3	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
490	1.03E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-3	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
491	1.02E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-3TB148-2	L-CVCC0001-P
		NOATWS	NOSBO		
492	1.02E-08	E-TRAINA--M	H-C2A0608--N	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
493	1.02E-08	H-HASMLT-X	INIT-SEIS5	NOATWS	RECIRC
494	1.01E-08	ATWS	D-HCBORATE-U	INIT-TT	K-OOMECHSCRM
		Z126-1			
495	1.01E-08	H-MP019-1DR	H-MV9305--M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
496	1.01E-08	H-MP019-1DR	H-MV9303--M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
497	1.00E-08	INIT-2AR63116-2	L-CVCC0001-P	NOATWS	NOSBO
498	1.00E-08	INIT-2PE182B	L-HCCSTMU-U	NOATWS	NOSBO
499	1.00E-08	FTR	INIT-CCW	P-TRAINA--M	U-B4D2--1DR
		Z0			
500	1.00E-08	FTR	INIT-CCW	P-TRAINA--M	U-B4D2P1-1DR
		Z0			
501	9.96E-09	INIT-2TB148-5	L-CVCC0001-P	NOATWS	NOSBO
502	9.93E-09	H-MV9302--M	H-MV9305--P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
503	9.93E-09	H-MV9303--P	H-MV9304--M	H-ZZ18TO17-K	INIT-SL

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	RECIRC		
504	9.93E-09	H-MV9304—M	H-MV9305—P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
505	9.93E-09	H-MV9303—M	H-MV9304—P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
506	9.93E-09	H-MV9302—M	H-MV9303—P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
507	9.93E-09	H-MV9302—P	H-MV9305—M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
508	9.93E-09	H-MV9304—P	H-MV9305—M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
509	9.93E-09	H-MV9302—P	H-MV9303—M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
510	9.88E-09	H-CVCC0022-P	INIT-SL	NOATWS	
511	9.84E-09	H-C2A0608—N	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-MP112—M	P-MP307—M	
512	9.84E-09	INIT-2AC3020A-A	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
513	9.84E-09	H-HASMLT—X	INIT-3TB148-2	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
514	9.84E-09	H-HASMLT—X	INIT-3TB148-2	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
515	9.83E-09	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0200—P
		Z126-1			
516	9.83E-09	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0201—P
		Z126-1			
517	9.79E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2—Z	L-HCHV4716PU	L-MV4716—P	NOATWS
		NOLOP	NOSBO		
518	9.79E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1—Z	L-HCHV4716PU	L-MV4716—P	NOATWS
		NOLOP	NOSBO		
519	9.77E-09	INIT-LL	P-AV6201—P	P-HCSWCKK-LL	P-MP112—M
		P-P113KIRKKEY-K			
520	9.72E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	H-MSBY28—N
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
521	9.72E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	H-MSBE35—N
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
522	9.72E-09	INIT-2AC5040-2	L-MP504—1DR	L-MV4706—M	NOATWS
		NOSBO			
523	9.63E-09	INIT-2SE30145A	L-C2A0404—N	L-MP504—M	NOATWS
		NOSBO			
524	9.63E-09	INIT-2SE30145A	L-C2A0603—N	L-MP141—M	NOATWS
		NOSBO			
525	9.61E-09	E-HCP026—U	E-HCSWINGB-Z	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-MP112—M	P-MP307—M	
526	9.58E-09	H-CVCC0038-P	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
527	9.53E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-C2A0404—N
		L-TP140NR1DR	NOATWS	NOSBO	
528	9.51E-09	INIT-2TB148-7	L-HCHV4716PU	L-MPCC0001-S	L-MV4716—P
		NOATWS	NOSBO		
529	9.44E-09	H-MPCC01-1DR	INIT-ML		
530	9.43E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-3TB148-2	L-CVCC0001-P

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Plant: SONG, Unit: 2

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOSBO		
531	9.41E-09	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-1DR	U-OOGWLOOP-Z		
532	9.34E-09	INIT-2AC5035-2	L-CVCC0001-P	NOATWS	NOSBO
533	9.34E-09	INIT-2AC5040-2	L-CVCC0001-P	NOATWS	NOSBO
534	9.32E-09	H-MP019-S	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M			
535	9.29E-09	INIT-2TB148-6	L-HCHV4716PU	L-MV4716-P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
536	9.24E-09	2G3-FAILS	INIT-2AC5040-2	L-TP140-M	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
537	9.24E-09	2G2-FAILS	INIT-2AC5035-2	L-TP140-M	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
538	9.23E-09	H-HARFCNL-X	INIT-ML	RECIRC	
539	9.22E-09	F-HCDEPRESSU	INIT-2AC3020A-A	L-CVCC0001-P	NOATWS
		NOSBO			
540	9.20E-09	INIT-2AR50111	L-CVCC0002-P	NOATWS	NOSBO
541	9.16E-09	INIT-LOP	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCS			
542	9.13E-09	INIT-2AR37102A	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
543	9.07E-09	E-CV103-N	E-HCSWINGB-Z	E-TRAINA-M	E-ZZ25TO24-K
		INIT-SL	NOATWS		
544	9.07E-09	INIT-SEIS2	L-TK120-D	NOATWS	NOSBO
545	9.07E-09	INIT-SEIS2	L-TK121-D	NOATWS	NOSBO
546	9.07E-09	INIT-2AC916-3	L-TK120-D	NOATWS	NOSBO
547	9.07E-09	INIT-2AC916-3	L-TK121-D	NOATWS	NOSBO
548	9.06E-09	INIT-3PE633B-3	L-HCCSTMU-U	NOATWS	NOSBO
549	9.06E-09	INIT-2PE633B-3	L-HCCSTMU-U	NOATWS	NOSBO
550	9.05E-09	INIT-2AR976	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
551	9.03E-09	INIT-2TB148-7	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO			
552	8.99E-09	2G3-FAILS	INIT-2AC5040-2	L-MV4716-M	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
553	8.99E-09	2G2-FAILS	INIT-2AC5035-2	L-MV4716-M	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
554	8.99E-09	INIT-2SE30145A	L-CVCC0001-P	NOATWS	NOSBO
555	8.98E-09	INIT-2YD30200-3	L-HCNBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
556	8.91E-09	INIT-2AC5035-2	L-C2A0404-N	L-HCHV4716PU	L-MV4716-P
		NOATWS	NOSBO		
557	8.91E-09	INIT-2AC5040-2	L-C2A0603-N	L-HCHV4716PU	L-MV4716-P
		NOATWS	NOSBO		
558	8.91E-09	H-C2A0608-N	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M			
559	8.90E-09	H-ZZ18TO17-K	INIT-2AC5040-2	M-CHE-335-M	M-DUMMY-Z
		NOATWS	Y-OORV-DEM-Z	Y-RV0201-N	
560	8.90E-09	H-ZZ18TO17-K	INIT-2AC5040-2	M-CHE-335-M	M-DUMMY-Z
		NOATWS	Y-OORV-DEM-Z	Y-RV0200-N	
561	8.82E-09	ATWS	INIT-PCS	K-OOMECHSCRM	KTT30-3

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
562	8.82E-09	ATWS	D-HCBORATE-U	INIT-PCS	K-OOMECHSCRM
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
563	8.81E-09	INIT-2DG30155-2	L-CVCC0001-P	NOATWS	NOSBO
		URECB2A06-Z			
564	8.78E-09	ATWS	INIT-TT	K-HCEFAS-U	K-OODEFASCCZ
		K-OOMECHSCRM	Z126-1COMPLEMENT	Z250-2COMPLEMENT	
565	8.77E-09	INIT-2AC5040-2	L-HCNSBOMANU	L-HCTP140-U	L-HV4714-P
		NOATWS	NOSBO		
566	8.77E-09	INIT-2AC5040-2	L-HCNSBOMANU	L-HCTP140-U	L-SV4714-J
		NOATWS	NOSBO		
567	8.74E-09	E-CV103-N	E-HCSWINGB-Z	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-MP112-M	P-MP307-M	
568	8.72E-09	E-C2A0605-N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9303-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
569	8.72E-09	E-C2A0605-N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9305-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
570	8.64E-09	H-MPCC01-1DR	INIT-LL		
571	8.64E-09	INIT-2AC5040-2	L-MP504-M	L-MV4706-M	NOATWS
		NOSBO			
572	8.60E-09	INIT-2AC5040-2	L-MP504-1DR	L-MV4706-P	NOATWS
		NOSBO			
573	8.60E-09	INIT-2AC5040-2	L-MP504-1DR	L-MV4715-P	NOATWS
		NOSBO			
574	8.60E-09	INIT-3PE633B-4	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
575	8.59E-09	ATWS	INIT-PCS	K-OOMECHSCRM	Y-RV0200-P
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
576	8.59E-09	ATWS	INIT-PCS	K-OOMECHSCRM	Y-RV0201-P
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
577	8.54E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCR			
578	8.53E-09	2G2-FAILS	E-NCL-B-K	INIT-SEIS5A	NOATWS
		NOLOP	U-DG2G2-M		
579	8.53E-09	2G3-FAILS	E-NCL-A-K	INIT-SEIS5A	NOATWS
		NOLOP	U-DG2G3-M		
580	8.51E-09	FGHCCNDREC-U	INIT-2AC3020A-A	L-CVCC0001-P	NOATWS
		NOSBO			
581	8.47E-09	INIT-2AC3020A-6	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141-1DR
		NOATWS	NOSBO		
582	8.46E-09	INIT-2AC5044	L-MP141-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
583	8.45E-09	H-HARFCNL-X	INIT-LL	RECIRC	
584	8.41E-09	INIT-2DG30155-2	L-C2A0404-N	L-HCHV4716PU	L-MV4716-P
		NOATWS	NOSBO	URECB2A06-Z	
585	8.39E-09	INIT-2AC916-3	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
586	8.39E-09	INIT-SEIS2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
587	8.39E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30158-2	L-HCCSTMU-U
		NOATWS	NOSBO		
588	8.39E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30155-2	L-HCCSTMU-U
		NOATWS	NOSBO		
589	8.35E-09	INIT-LOP	L-CVCC0002-P	NOATWS	NOSBO

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		U-HCOSPWR60U	U-OOGWLOOP-Z		
590	8.28E-09	INIT-2SE30145A	L-MP141-1DR	L-MP504-S	NOATWS
		NOSBO			
591	8.28E-09	INIT-2SE30145A	L-MP141-S	L-MP504-1DR	NOATWS
		NOSBO			
592	8.24E-09	H-MP019-1DR	H-TRAINA-M	H-ZZ18TO17-K	INIT-ML
593	8.23E-09	A-CV075-3MD	H-CV033-1YD	H-PT2B-3MI	INIT-ISLOCA
594	8.23E-09	A-CV074-3MD	H-CV031-1YD	H-PT2A-3MI	INIT-ISLOCA
595	8.23E-09	A-CV072-3MD	H-CV027-1YD	H-PT1A-3MI	INIT-ISLOCA
596	8.23E-09	A-CV073-3MD	H-CV029-1YD	H-PT1B-3MI	INIT-ISLOCA
597	8.21E-09	2G2-FAILS	2G3-FAILS	INIT-LOP	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-N	U-HCOSPWR60U
		U-HCOSPWR6HU	U-OOPCLOOP-Z		
598	8.19E-09	INIT-2DG30158-2	L-HCTP140-U	M-CHE-335-M	M-HCVENT-EE
		NOATWS	NOSBO	URECB2A04-Z	
599	8.19E-09	INIT-2DG30155-2	L-HCTP140-U	M-CHE-336-M	M-HCVENT-EE
		NOATWS	NOSBO	URECB2A06-Z	
600	8.17E-09	INIT-2AC5044	L-MP141-1DR	L-SV4700-J	NOATWS
		NOSBO			
601	8.14E-09	INIT-2DG30155-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
602	8.14E-09	INIT-2DG30158-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
603	8.14E-09	INIT-TT	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCOSPWR60U	U-ZZCNDLP-Z		
604	8.13E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-C2CC0001-P	U-HCG005SEIU
605	8.13E-09	E-TRAINB-M	H-HCP17STRTU	H-MP018-1DR	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	
606	8.10E-09	INIT-2AC8571-4	L-HCCSTMU-U	NOATWS	NOSBO
607	8.10E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-SV4700-J
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
608	8.09E-09	E-HCSWINGB-Z	E-MP026-S	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-MP112-M	P-MP307-M	
609	8.09E-09	INIT-2TB148-7	L-MPCC01-1DR	L-TP140-M	NOATWS
		NOSBO			
610	8.07E-09	INIT-2PE453A-2	L-CVCC0001-P	NOATWS	NOSBO
611	7.98E-09	ATWS	INIT-2AR63116-2	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
612	7.98E-09	INIT-2PE453A-3	L-HCCSTMU-U	NOATWS	NOSBO
613	7.98E-09	FTR	INIT-TT	L-HCHV4716PU	L-MV4716-P
		M-FNE-4301DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
614	7.98E-09	FTR	INIT-TT	L-HCHV4716PU	L-MV4716-P
		M-FNA-1651DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
615	7.93E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DG2G2-M	U-DG2G3-1DR	
616	7.93E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DG2G2-1DR	U-DG2G3-M	
617	7.91E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2-Z	L-TP140NR-S	NOATWS	NOLOP

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Number	Probability	Event	Event	Event	Event
		NOSBO			
618	7.91E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1—Z	L-TP140NR—S	NOATWS	NOLOP
		NOSBO			
619	7.89E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141—S
		L-TP140NR1DR	NOATWS	NOSBO	
620	7.89E-09	ATWS	INIT-2TB148-6	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
621	7.88E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140—1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCR			
622	7.87E-09	INIT-2TB148-7	L-MPCC01-1DR	L-MV4716—M	NOATWS
		NOSBO			
623	7.83E-09	H-HCP17STRTU	H-MP018—1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	P-MP113—M	P-MP114—M
624	7.83E-09	INIT-2DG30158-2	L-C2A0603—N	L-HCTP140—U	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04—Z	
625	7.78E-09	H-TK005—1DD	H-ZZ18TO17-K	INIT-SL	INJECT
		LOCA	NOATWS		
626	7.78E-09	H-TK006—1DD	H-ZZ18TO17-K	INIT-SL	INJECT
		LOCA	NOATWS		
627	7.76E-09	INIT-3TB148-2	L-SV4700—J	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
628	7.75E-09	FTR	INIT-LL	P-HCSWCKK-LL	P-MP112—M
		P-MP113—1DR	P-P113KIRKKEY-K		
629	7.74E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30155-2	L-HCCSTMU—U
		NOATWS	NOSBO		
630	7.74E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-2	L-HCCSTMU—U
		NOATWS	NOSBO		
631	7.70E-09	INIT-2AR37102A	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716—P
		NOATWS	NOSBO		
632	7.69E-09	FTR	INIT-CCW	P-CFSWC—1YR	P-HCSWCKK-SL-CCW
		P-MP112—M	P-MP113—1DR	P-P113KIRKKEY-K	Y1
633	7.68E-09	INIT-2TB148-7	L-MPCC0001-S	L-TP140NR—S	NOATWS
		NOSBO			
634	7.65E-09	INIT-2AC5040-2	L-MP504—M	L-MV4706—P	NOATWS
		NOSBO			
635	7.65E-09	INIT-2AC5040-2	L-MP504—M	L-MV4715—P	NOATWS
		NOSBO			
636	7.63E-09	INIT-2AR976	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716—P
		NOATWS	NOSBO		
637	7.59E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DGCC01-1DR		
638	7.55E-09	INIT-3PE453A-2	L-CVCC0001-P	NOATWS	NOSBO
639	7.54E-09	H-MP019—1DR	H-TRAINA—M	H-ZZ18TO17-K	INIT-LL
640	7.53E-09	FTR	INIT-CCW	P-MPCC09-1DR	P-TRAINA—M
		Z0			
641	7.53E-09	INIT-2AC3020A-6	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141—M
		NOATWS	NOSBO		
642	7.51E-09	INIT-2TB148-7	L-HCHV4716PU	L-MV4716—P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
643	7.50E-09	INIT-2TB148-6	L-TP140NR—S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		MULTIPLYBYP4			
644	7.50E-09	H-MP019—S	H-MV9305—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
645	7.50E-09	H-MP019—S	H-MV9303—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
646	7.48E-09	2G2-FAILS	2G3-FAILS	INIT-LOP	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCOSPWR60U
		U-HCOSPWR6HU	U-OOGWLOOP-Z	MULTIPLYBP33	
647	7.47E-09	FGHCMFWREC-U	INIT-2AC8570-3	L-HCCSTMU—U	NOATWS
		NOSBO			
648	7.40E-09	INIT-SL	NOATWS	P-C2A0610—N	P-HCSWCKK-SL-CCW
		P-MP112—M	P-P113KIRKKEY-K		
649	7.37E-09	FTR	INIT-PCS	L-HCNSBOMANU	NOATWS
		NOSBO	U-BCCC01-1DR		
650	7.36E-09	INIT-2SE30145A	L-MP141—S	L-MP504—M	NOATWS
		NOSBO			
651	7.36E-09	INIT-2SE30145A	L-MP141—M	L-MP504—S	NOATWS
		NOSBO			
652	7.36E-09	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U	K-OORAS-A-Z
		NOATWS	P-MV6495—P	RECIRC	
653	7.36E-09	INIT-SL	K-HCCIAS—U	K-OOCIAS-A-Z	NOATWS
		P-MV6495—P			
654	7.35E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	FTR
		INIT-SL	NOATWS	P-HCBCKFLSHU	P-HTE001-1DC
655	7.28E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141—S
		L-TP140NR1DR	NOATWS	NOSBO	
656	7.26E-09	INIT-2AC5044	L-MP141—M	L-SV4700—J	NOATWS
		NOSBO			
657	7.23E-09	INIT-2AC5038	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
658	7.20E-09	INIT-2AC5035-2	L-C2A0404—N	L-TP140NR—S	NOATWS
		NOSBO			
659	7.20E-09	INIT-2AC5040-2	L-C2A0603—N	L-TP140NR—S	NOATWS
		NOSBO			
660	7.18E-09	INIT-2PE453A-3	L-HCHV4716PU	L-MP504—1DR	L-MV4716—P
		NOATWS	NOSBO		
661	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C4D203-1DO
		Z0			
662	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C3B06011DO
		Z0			
663	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C3B06141DO
		Z0			
664	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C2A06201DO
		Z0			
665	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	NOSBO
		U-C3BZ03-1DO	Z0		
666	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	NOSBO
		U-C4D202-1DO	Z0		
667	7.17E-09	H-C2A0608—N	H-MV9305—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
668	7.17E-09	H-C2A0608—N	H-MV9303—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
669	7.17E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPA-FU	L-HCAFWPC-FU	NOATWS	NOSBO
		RC2-SUCCESS			

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Plant: SONG, Unit: 2

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
670	7.17E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPA-FU	L-HCAFWPC-FU	NOATWS	NOSBO
		OP3-SUCCESS			
671	7.16E-09	E-MP026—M	E-ZZ25TO24-K	INIT-2AC5040-2	NOATWS
		Y-OORV-DEM-Z	Y-RV0200—N		
672	7.16E-09	E-MP026—M	E-ZZ25TO24-K	INIT-2AC5040-2	NOATWS
		Y-OORV-DEM-Z	Y-RV0201—N		
673	7.13E-09	INIT-SLB	NOATWS	T-OOE-088—Z	T-SVCC0012-J
		TDS30-1COMPLEMNT			
674	7.13E-09	INIT-SLB	NOATWS	T-OOE-089—Z	T-SVCC0012-J
		TDS30-1COMPLEMNT			
675	7.13E-09	INIT-2AC916-3	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
676	7.13E-09	INIT-SEIS2	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
677	7.08E-09	INIT-2TB148-7	L-C2CC0001-N	L-HCHV4716PU	L-MV4716—P
		NOATWS	NOSBO		
678	7.08E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1—Z	L-TP140—M	NOATWS	NOLOP
		NOSBO			
679	7.08E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2—Z	L-TP140—M	NOATWS	NOLOP
		NOSBO			
680	7.08E-09	ATWS	INIT-TT	K-HCSCRAM—U	K-OOCCRPSSDSS
		NOLOP	Z126-1COMPLEMENT	Z250-2	
681	7.02E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30158-2	L-HCTP140—U
		L-MP504—1DR	NOATWS	NOSBO	URECB2A04—Z
682	7.02E-09	INIT-SLB	K-HCMSIS—U	K-OOMSISCC-Z	NOATWS
		T-OOE-089—Z	TDS30-1		
683	7.02E-09	INIT-SLB	K-HCMSIS—U	K-OOMSISCC-Z	NOATWS
		T-OOE-088—Z	TDS30-1		
684	7.01E-09	2G2-FAILS	2G3-FAILS	INIT-LOP	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-P	U-HCOSPWR60U
		U-HCOSPWR6HU	U-OOPCLOOP-Z	U-HCRECC2CCP	
685	7.00E-09	E-HCP026—U	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9305—P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
686	7.00E-09	E-HCP026—U	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9303—P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
687	6.99E-09	INIT-2AC8571-3	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
688	6.99E-09	INIT-2AC3020A-A	L-HCHV4716PU	L-MV4716—P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
689	6.98E-09	INIT-2PE453A-3	L-CV547—N	L-HCTP140—U	NOATWS
		NOSBO			
690	6.93E-09	INIT-PCS	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-C2A0807—N	URHCFASXFRU		
691	6.91E-09	FTR	INIT-CCW	P-MP112—M	P-MP307—M
		U-C4D203-1DO	Z0		
692	6.91E-09	FTR	INIT-CCW	NOSBO	P-MP112—M
		P-MP307—M	U-C3BZ03-1DO	Z0	
693	6.91E-09	FTR	INIT-CCW	P-MP112—M	P-MP307—M
		U-C2A06201DO	Z0		
694	6.91E-09	E-LC6276-1DI	E-ZZ25TO24-K	FTR	INIT-CCW

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		P-MP113—M	P-MP114—M	Z0	
695	6.91E-09	FTR	INIT-CCW	P-MP112—M	P-MP307—M
		U-C3B06141DO	Z0		
696	6.91E-09	FTR	INIT-CCW	P-MP112—M	P-MP307—M
		U-C3B06011DO	Z0		
697	6.91E-09	FTR	INIT-CCW	NOSBO	P-MP112—M
		P-MP307—M	U-C4D202-1DO	Z0	
698	6.90E-09	INIT-LOP	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716—P
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCR			
699	6.90E-09	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCTP140—U	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2—M	U-OOPCLOOP-Z		
700	6.89E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2—Z	L-MV4716—M	NOATWS	NOLOP
		NOSBO			
701	6.89E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1—Z	L-MV4716—M	NOATWS	NOLOP
		NOSBO			
702	6.88E-09	INIT-2TB148-7	L-MPCC0001-S	L-TP140—M	NOATWS
		NOSBO			
703	6.88E-09	2G3-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3—1DR			
704	6.88E-09	2G3-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3—1DR			
705	6.83E-09	INIT-2AC5042	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
706	6.82E-09	INIT-LOP	L-C2CC0001-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECC2CCN			
707	6.81E-09	INIT-2AC5035-2	L-HCHV4716PU	L-MP141—S	L-MV4716—P
		NOATWS	NOSBO		
708	6.81E-09	INIT-2AC5040-2	L-HCHV4716PU	L-MP504—S	L-MV4716—P
		NOATWS	NOSBO		
709	6.79E-09	E-HCSWINGB-Z	E-MP026—1DR	E-TRAINA—M	E-ZZ25TO24-K
		FTR	INIT-SL	NOATWS	
710	6.79E-09	H-MV9304—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA—M	RECIRC	Y-OORV-DEM-Z	Y-RV0201—N
711	6.79E-09	H-MV9302—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA—M	RECIRC	Y-OORV-DEM-Z	Y-RV0200—N
712	6.79E-09	H-MV9304—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA—M	RECIRC	Y-OORV-DEM-Z	Y-RV0200—N
713	6.79E-09	H-MV9302—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA—M	RECIRC	Y-OORV-DEM-Z	Y-RV0201—N
714	6.79E-09	H-MV9305—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB—M	RECIRC	Y-OORV-DEM-Z	Y-RV0201—N
715	6.79E-09	H-MV9305—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB—M	RECIRC	Y-OORV-DEM-Z	Y-RV0200—N
716	6.79E-09	H-MV9303—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB—M	RECIRC	Y-OORV-DEM-Z	Y-RV0200—N
717	6.79E-09	H-MV9303—P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB—M	RECIRC	Y-OORV-DEM-Z	Y-RV0201—N
718	6.79E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NO-RECOVER	NOATWS	U-C2CC0007-P	
719	6.79E-09	INIT-2DG30155-2	L-C2A0404-N	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		
720	6.77E-09	FTR	INIT-3AC5060	L-HCTP140-U	M-CHE-3351DR
		M-HCVENT-EE	NOATWS	NOSBO	
721	6.77E-09	FTR	INIT-3AC5034	L-HCTP140-U	M-CHE-3361DR
		M-HCVENT-EE	NOATWS	NOSBO	
722	6.75E-09	E-MP024-M	E-ZZ25TO24-K	INIT-2SE5135B	NOATWS
		Y-OORV-DEM-Z	Y-RV0200-N		
723	6.75E-09	E-MP024-M	E-ZZ25TO24-K	INIT-2SE5135B	NOATWS
		Y-OORV-DEM-Z	Y-RV0201-N		
724	6.75E-09	E-MP026-M	E-ZZ25TO24-K	INIT-2DG30158-2	NOATWS
		URECB2A04-Z	Y-OORV-DEM-Z	Y-RV0200-N	
725	6.75E-09	E-MP026-M	E-ZZ25TO24-K	INIT-2DG30158-2	NOATWS
		URECB2A04-Z	Y-OORV-DEM-Z	Y-RV0201-N	
726	6.72E-09	FTPE-TF-PCS	INIT-2AC3020A-5		
727	6.72E-09	INIT-2TB148-6	L-TP140-M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
728	6.71E-09	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0417-N	U-DG2G2-1DR
729	6.71E-09	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-DG2G3-1DR	U3C2A0603-N
730	6.71E-09	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0619-N	U-DG2G3-1DR
731	6.71E-09	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-DG2G2-1DR	U3C2A0416-N
732	6.70E-09	INIT-2PE453A-3	L-FLP504-1DC	L-HCTP140-U	NOATWS
		NOSBO			
733	6.69E-09	INIT-2TB148-7	L-MPCC0001-S	L-MV4716-M	NOATWS
		NOSBO			
734	6.67E-09	H-MP019-1DR	H-ZZ18TO17-K	INIT-PCS	N-HCCSINJCTU
		NOATWS	P-TRAINA-M	Y-OORV-DEM-Z	Y-RV0201-N
735	6.67E-09	H-MP019-1DR	H-ZZ18TO17-K	INIT-PCS	N-HCCSINJCTU
		NOATWS	P-TRAINA-M	Y-OORV-DEM-Z	Y-RV0200-N
736	6.65E-09	H-MV9303-M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495-P	RECIRC		
737	6.65E-09	H-MV9305-M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495-P	RECIRC		
738	6.63E-09	ATWS	INIT-2DG30155-1	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
739	6.63E-09	ATWS	INIT-2DG30158-1	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
740	6.59E-09	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NCHCCSINJCTU	NOATWS	RECIRC
741	6.59E-09	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NCHCCSINJCTU	NOATWS	
742	6.59E-09	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NCHCCSINJCTU	NOATWS	RECIRC
743	6.56E-09	A-C2CC0001-N	INIT-LL		
744	6.56E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DG2G2-1DR	U-DG2G3-1DR
		U-HC3A4A660V			
745	6.55E-09	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-HCSWCKK-SL-CCW	P-MP112-M	

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Number	Probability	Event	Event	Event	Event
746	6.55E-09	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K	FTR
		INIT-SL	NOATWS	P-MP112-M	P-MP307-M
747	6.54E-09	INIT-2AR37102A	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
748	6.54E-09	INIT-2TB148-6	L-MV4716-M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
749	6.53E-09	E-MP024-M	E-MP025-M	E-ZZ25TO24-K	H-MP019-1DR
		H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU	NOATWS
750	6.53E-09	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP112-1DR	P-TRAINB-M	Z0	
751	6.53E-09	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP113-1DR	P-P113KIRKKEY-K	P-TRAINA-M	Z0
752	6.49E-09	INIT-2AC5039	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
753	6.49E-09	INIT-2AR976	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
754	6.48E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-2	L-HCTP140-U
		L-MP504-1DR	NOATWS	NOSBO	URECB2A04-Z
755	6.47E-09	E-NCL-B-K	INIT-SEIS5A	NOATWS	P-TRAINA-M
756	6.47E-09	E-NCL-A-K	INIT-SEIS5A	NOATWS	P-TRAINB-M
757	6.45E-09	2G2-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-M	U-OOPCLOOP-Z		
758	6.44E-09	E-MP024-M	E-MP025-M	E-ZZ25TO24-K	H-MV9304-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
759	6.44E-09	E-MP024-M	E-MP025-M	E-ZZ25TO24-K	H-MV9302-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
760	6.44E-09	INIT-2AC5040-2	L-C2A0603-N	L-TP140-M	NOATWS
		NOSBO			
761	6.44E-09	INIT-2AC5035-2	L-C2A0404-N	L-TP140-M	NOATWS
		NOSBO			
762	6.44E-09	FTR	INIT-TT	L-TP140NR-S	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
763	6.44E-09	FTR	INIT-TT	L-TP140NR-S	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
764	6.44E-09	INIT-2AC3020A-9	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141-1DR
		NOATWS	NOSBO		
765	6.42E-09	INIT-2DG30155-2	L-HCHV4716PU	L-MP141-S	L-MV4716-P
		NOATWS	NOSBO	URECB2A06-Z	
766	6.40E-09	FTR	INIT-CCW	M-FNA-1651DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOLOCA	NOLOP	P-FNSWC-Z
		Z0			
767	6.40E-09	FTR	INIT-CCW	M-FNE-4301DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOLOCA	NOLOP	P-FNSWC-Z
		Z0			
768	6.38E-09	INIT-2YD30200-3	L-HCHV4716PU	L-MV4716-P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
769	6.38E-09	INIT-2AC5040-2	L-HCTP140-U	L-MPCC01-1DR	NOATWS
		NOSBO			
770	6.38E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPA-FU	L-HCAFWPC-FU	NO-RECOVER	NOATWS

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOSBO	U-OOPCLOOP-Z		
771	6.38E-09	INIT-2PE453A-3	L-HCHV4716PU	L-MP504—M	L-MV4716—P
		NOATWS	NOSBO		
772	6.38E-09	ATWS	INIT-2TB148-7	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
773	6.36E-09	E-CV103—N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9303—P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
774	6.36E-09	E-CV103—N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9305—P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
775	6.36E-09	ATWS	INIT-2AR50111	K-OOMECHSCRM	Z126-1
776	6.35E-09	FTR	INIT-CRHHVAC	L-HCTP140—U	M-FNE-4301DR
		M-HCBCBFALU	M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	M-OR9557-1DC
		NOATWS	NOLOCA	NOLOP	NOSBO
777	6.35E-09	FTR	INIT-CRHHVAC	L-HCTP140—U	M-FNA-1651DR
		M-HCBCBFALU	M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	M-OR9557-1DC
		NOATWS	NOLOCA	NOLOP	NOSBO
778	6.30E-09	H-HADEBRIS-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
779	6.30E-09	H-HADEBRIS-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
780	6.29E-09	INIT-SL	K-HCCIAS—U	K-OOCIAS-A-Z	NOATWS
		P-HTE002—M			
781	6.29E-09	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U	K-OORAS-A-Z
		NOATWS	P-HTE002—M	RECIRC	
782	6.29E-09	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U	K-OORAS-B-Z
		NOATWS	P-HTE001—M	RECIRC	
783	6.27E-09	INIT-2AC5035-2	L-C2A0404—N	L-MV4716—M	NOATWS
		NOSBO			
784	6.27E-09	INIT-2AC5040-2	L-C2A0603—N	L-MV4716—M	NOATWS
		NOSBO			
785	6.27E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	H-MV9303—P
		H-ZZ18TO17-K	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
786	6.27E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	H-MV9305—P
		H-ZZ18TO17-K	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
787	6.27E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	H-MV9305—P
		H-ZZ18TO17-K	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
788	6.27E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	H-MV9303—P
		H-ZZ18TO17-K	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
789	6.26E-09	E-TRAINA—M	H-MP019—1DR	H-ZZ18TO17-K	INIT-ML
790	6.25E-09	DLMPSEAL-4HD	FTR	INIT-CCW	P-CFSWC—1YR
		P-HCSWCKK-SL-CCW	P-MP112—M	P-MP113—1DR	P-P113KIRKKEY-K
791	6.24E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30158-2	L-HCTP140—U
		L-MP504—M	NOATWS	NOSBO	URECB2A04—Z
792	6.21E-09	INIT-2AR37102A	L-MPCC01-1DR	L-TP140NR—S	NOATWS
		NOSBO			
793	6.19E-09	H-MP019—1DR	H-ZZ18TO17-K	INIT-ML	P-HCSWCKK-ML
		P-MP112—M			
794	6.19E-09	INIT-2AC5044	L-CVCC0001-P	NOATWS	NOSBO
795	6.16E-09	INIT-2AR976	L-MPCC01-1DR	L-TP140NR—S	NOATWS
		NOSBO			
796	6.14E-09	FGHCMFWREC-U	INIT-2PE453A-1	L-CVCC0001-P	NOATWS

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CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOSBO			
797	6.14E-09	FGHCMFWREC-U	INIT-3PE633B-1	L-CVCC0001-P	NOATWS
		NOSBO			
798	6.14E-09	FGHCMFWREC-U	INIT-3PE453A-1	L-CVCC0001-P	NOATWS
		NOSBO			
799	6.14E-09	FGHCMFWREC-U	INIT-2PE633B-1	L-CVCC0001-P	NOATWS
		NOSBO			
800	6.13E-09	H-ZZ18TO17-K	INIT-ML	K-HCRAS—U	K-OORAS-CC-Z
		RECIRC			
801	6.12E-09	E-CFCCW-1YR	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-MP112—M	P-MP307—S
		Z0			
802	6.12E-09	2G3-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G3-1DR	U-OOPCLOOP-Z		
803	6.11E-09	INIT-2DG30155-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
804	6.11E-09	INIT-2DG30158-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
805	6.10E-09	FGHCMFWREC-U	INIT-2AC5038	L-HCCSTMU-U	NOATWS
		NOSBO			
806	6.10E-09	FTR	INIT-CCW	P-MP112—M	P-MPCC11-1DR
		Y1			
807	6.08E-09	INIT-2DG30155-2	L-C2A0404-N	L-TP140—M	NOATWS
		NOSBO	URECB2A06-Z		
808	6.07E-09	INIT-SLB	L-CV124—P	NOATWS	T-OOE-088-Z
		TDS30-1			
809	6.07E-09	INIT-SLB	L-CV448—P	NOATWS	T-OOE-089-Z
		TDS30-1			
810	6.07E-09	INIT-2TB148-7	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
811	6.06E-09	FGHCMFWREC-U	INIT-2YD30200-1	L-CVCC0001-P	NOATWS
		NOSBO			
812	6.05E-09	INIT-LOP	L-CVCC0002-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
813	6.05E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC0001-S
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCS			
814	6.04E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3—S			
815	6.04E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3—S			
816	6.03E-09	H-MP019-1DR	H-ZZ18TO17-K	INIT-ML	P-MP112—M
		P-MP307—M			
817	6.01E-09	2G2-FAILS	INIT-SEIS5	NOATWS	NOLOP
		P-TRAINB—M	U-DG2G2-1DR		
818	6.01E-09	2G3-FAILS	INIT-SEIS5	NOATWS	NOLOP
		P-TRAINA—M	U-DG2G3-1DR		
819	5.98E-09	INIT-2DG30158-2	L-HCTP140-U	L-MP504—S	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04-Z	

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Number	Probability	Event	Event	Event	Event
820	5.96E-09	E-NCL-A-K	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K
		INIT-SEISSA	NOATWS		
821	5.96E-09	H-MV9303-M	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
822	5.96E-09	H-MV9305-M	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
823	5.96E-09	H-MV9302-M	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
824	5.96E-09	H-MV9304-M	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
825	5.93E-09	ATWS	INIT-2AC3020A-A	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
826	5.93E-09	INIT-2AR2494	L-CVCC0002-P	NOATWS	NOSBO
827	5.92E-09	INIT-2DG30155-2	L-C2A0404-N	L-MV4716-M	NOATWS
		NOSBO	URECB2A06-Z		
828	5.91E-09	INIT-2PE302C	L-CVCC0001-P	NOATWS	NOSBO
829	5.91E-09	INIT-2AC5044	L-C2A0404-N	L-HCHV4716PU	L-MV4716-P
		NOATWS	NOSBO		
830	5.89E-09	E-HCSWINGB-Z	E-MP026-S	E-ZZ25TO24-K	H-MV9303-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
831	5.89E-09	E-HCSWINGB-Z	E-MP026-S	E-ZZ25TO24-K	H-MV9305-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
832	5.89E-09	INIT-2TB148-7	L-CVCC0002-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
833	5.88E-09	H-HAXV7766-X	INIT-PCS	NOATWS	RECIRC
		X-HX-NX-AXAZ	Y-OORV-DEM-Z	Y-RV0201-N	
834	5.88E-09	H-HAXV7767-X	INIT-PCS	NOATWS	RECIRC
		X-HX-NX-AXAZ	Y-OORV-DEM-Z	Y-RV0201-N	
835	5.88E-09	H-HAXV7766-X	INIT-PCS	NOATWS	RECIRC
		X-HX-NX-AXAZ	Y-OORV-DEM-Z	Y-RV0200-N	
836	5.88E-09	H-HAXV7767-X	INIT-PCS	NOATWS	RECIRC
		X-HX-NX-AXAZ	Y-OORV-DEM-Z	Y-RV0200-N	
837	5.87E-09	INIT-2AC5040-2	L-HCNSBOMANU	L-HCTP140-U	L-HV4714-M
		NOATWS	NOSBO		
838	5.85E-09	FGHCMFWREC-U	INIT-PCS	L-HCCSTMU-U	NOATWS
		NOSBO	U-C2A0807-N	URHCFSTXFRU	
839	5.83E-09	E-TRAINA-M	FTR	INIT-CCW	U-T26X-1DR
		Z0			
840	5.82E-09	2G2-FAILS	H-ZZ18TO17-K	INIT-SEIS5	M-CHE-335-M
		M-DUMMY-Z	NOATWS	NOLOP	U-DG2G2-M
841	5.81E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-SEIS1	L-HCCSTMU-U
		NOATWS	NOSBO		
842	5.79E-09	INIT-2PE453A-3	L-MP504-1DR	L-TP140NR-S	NOATWS
		NOSBO			
843	5.79E-09	H-CV002-N	H-MV9301-N	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
844	5.79E-09	H-CV001-N	H-MV9300-N	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
845	5.77E-09	FTR	INIT-TT	L-TP140-M	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
846	5.77E-09	FTR	INIT-TT	L-TP140-M	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
847	5.76E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-2	L-HCTP140-U

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Number	Probability	Event	Event	Event	Event
		L-MP504—M	NOATWS	NOSBO	URECB2A04—Z
848	5.73E-09	E-TRAINA—M	H-MP019—1DR	H-ZZ18TO17-K	INIT-LL
849	5.72E-09	INIT-2AC3020A-9	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141—M
		NOATWS	NOSBO		
850	5.72E-09	INIT-2PE453A-3	L-HAXV533—X	L-HCTP140—U	NOATWS
		NOSBO			
851	5.72E-09	INIT-2TB148-7	L-C2CC0001-N	L-TP140NR—S	NOATWS
		NOSBO			
852	5.70E-09	H-HCP17STRTU	H-MP018—1DR	H-MV9302—P	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	RECIRC
853	5.70E-09	H-HCP17STRTU	H-MP018—1DR	H-MV9304—P	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	RECIRC
854	5.68E-09	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-HCNBSOMANU
		NO-RECOVER	NOATWS	U-DGCC0001-S	U-OOPCLOOP-Z
855	5.68E-09	2G2-FAILS	2G3-FAILS	INIT-2PE633B-2	L-HCNBSOMANU
		NO-RECOVER	NOATWS	U-DGCC0001-S	U-OOPCLOOP-Z
856	5.68E-09	H-MV9302—M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE001—M	RECIRC		
857	5.68E-09	H-MV9304—M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE001—M	RECIRC		
858	5.68E-09	H-MV9303—M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE002—M	RECIRC		
859	5.68E-09	H-MV9305—M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE002—M	RECIRC		
860	5.64E-09	INIT-2AC3020A-A	L-TP140NR—S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
861	5.63E-09	INIT-2AC916-3	L-TP140—1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
862	5.63E-09	H-MP019—1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-MP112—M	P-MP307—S	
863	5.62E-09	H-HACV015—X	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRAINA—M		
864	5.62E-09	H-HAXV185—X	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRAINA—M		
865	5.61E-09	FTR	INIT-CCW	P-MP112—M	P-MP307—M
		U-T26X—1DR	Z0		
866	5.61E-09	FTR	INIT-TT	L-MV4716—M	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
867	5.61E-09	FTR	INIT-TT	L-MV4716—M	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
868	5.61E-09	H-ZZ18TO17-K	INIT-LL	K-HCRAS—U	K-OORAS-CC-Z
		RECIRC			
869	5.60E-09	INIT-2AC5040-2	L-CV547—N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
870	5.60E-09	INIT-2AC5035-2	L-CV121—N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
871	5.59E-09	INIT-2PE92A	L-CVCC0002-P	NOATWS	NOSBO
872	5.58E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MPCC0001-S
		L-TP140—1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCS			
873	5.57E-09	INIT-LOP	L-MPCC01-1DR	L-TP140NR—S	NOATWS

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Number	Probability	Event	Event	Event	Event
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCR
874	5.57E-09	FGHCMFWREC-U	INIT-2TB148-2	L-CVCC0001-P	NOATWS
		NOSBO			
875	5.56E-09	INIT-2AR37102A	L-MPCC01-1DR	L-TP140—M	NOATWS
		NOSBO			
876	5.55E-09	H-MV9304—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP112—M	P-MP307—S	RECIRC	
877	5.55E-09	H-MV9302—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP112—M	P-MP307—S	RECIRC	
878	5.55E-09	H-MV9303—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP113—S	P-MP114—M	RECIRC	
879	5.55E-09	H-MV9305—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP113—S	P-MP114—M	RECIRC	
880	5.55E-09	H-MV9305—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP113—M	P-MP114—S	RECIRC	
881	5.55E-09	H-MV9303—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP113—M	P-MP114—S	RECIRC	
882	5.53E-09	INIT-2AC5042	L-HCTP140—U	M-CHE-335—M	M-HCVENT—EE
		NOATWS	NOSBO		
883	5.52E-09	H-MP019—1DR	H-ZZ18TO17-K	INIT-LL	P-MP112—M
		P-MP307—M			
884	5.52E-09	INIT-2AR976	L-MPCC01-1DR	L-TP140—M	NOATWS
		NOSBO			
885	5.51E-09	H-C2CC0002-N	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
886	5.51E-09	2G2-FAILS	INIT-2AC5035-2	L-SV4700—J	NOATWS
		NOLOP	NOSBO	U-C2A0418—P	
887	5.51E-09	2G3-FAILS	INIT-2AC5040-2	L-SV4700—J	NOATWS
		NOLOP	NOSBO	U-C2A0618—P	
888	5.50E-09	INIT-2AC5047	L-C2A0603—N	L-HCTP140—U	NOATWS
		NOSBO	U-HCSPAREBCV		
889	5.50E-09	INIT-2AC5035-2	L-MP141—S	L-TP140NR—S	NOATWS
		NOSBO			
890	5.50E-09	INIT-2AC5040-2	L-MP504—S	L-TP140NR—S	NOATWS
		NOSBO			
891	5.48E-09	FGHCMFWREC-U	INIT-2AC5039	L-HCCSTMU—U	NOATWS
		NOSBO			
892	5.46E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504—1DR
		L-TP140—1DR	L-TP140NR1DR	NOATWS	NOSBO
893	5.45E-09	INIT-2AC99	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
894	5.44E-09	E-TRAINB—M	H-MSBY28—N	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
895	5.44E-09	E-TRAINB—M	H-MSBE35—N	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
896	5.44E-09	E-TRAINA—M	H-MSBJ33—N	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
897	5.44E-09	E-TRAINA—M	H-MSBJ34—N	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
898	5.43E-09	INIT-2TB148-7	L-TP140—M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
899	5.42E-09	INIT-2AC5040-2	L-HCTP140—U	L-MPCC0001-S	NOATWS
		NOSBO			
900	5.42E-09	ATWS	INIT-2YD30200-3	K-OOMECHSCRM	Z126-1COMPLEMENT

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		Z250-2			
901	5.41E-09	INIT-2AR37102A	L-MPCC01-1DR	L-MV4716—M	NOATWS
		NOSBO			
902	5.38E-09	INIT-2AC5040-2	L-FLP504-1DC	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
903	5.38E-09	INIT-2AC5035-2	L-FLP141-1DC	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
904	5.37E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G3—S	U-OOPCLOOP-Z		
905	5.37E-09	INIT-2AR976	L-MPCC01-1DR	L-MV4716—M	NOATWS
		NOSBO			
906	5.36E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-SEIS1	L-HCCSTMU—U
		NOATWS	NOSBO		
907	5.34E-09	INIT-2TB72154B	L-HCCSTMU—U	NOATWS	NOSBO
908	5.31E-09	INIT-2AC916-3	L-C2CC0001-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
909	5.31E-09	INIT-SEIS2	L-C2CC0001-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
910	5.29E-09	INIT-2TB148-7	L-MV4716—M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
911	5.28E-09	INIT-2DG30155-2	L-CV121—N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06—Z	
912	5.28E-09	INIT-2AR37102A	L-MPCC0001-S	L-TP140NR—S	NOATWS
		NOSBO			
913	5.27E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TB148-6	L-CVCC0001-P
		NOATWS	NOSBO		
914	5.26E-09	INIT-2AC3026	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
915	5.26E-09	2G2-FAILS	INIT-2AC5035-2	K-HCLOVSIG-V	K-OOLOV1—Z
		L-HCNSBOMANU	NOATWS	NOLOP	NOSBO
		U-DG3G2—1DR			
916	5.26E-09	2G3-FAILS	INIT-2AC5040-2	K-HCLOVSIG-V	K-OOLOV2—Z
		L-HCNSBOMANU	NOATWS	NOLOP	NOSBO
		U-DG3G3—1DR			
917	5.25E-09	INIT-LOP	L-MP141—1DR	L-MP504—1DR	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	U-HCOSPWR60U
		U-OOPCLOOP-Z			
918	5.24E-09	H-MSBJ34—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP112—M	P-MP307—M	RECIRC	
919	5.24E-09	H-MSBE35—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP113—M	P-MP114—M	RECIRC	
920	5.24E-09	H-MSBY28—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP113—M	P-MP114—M	RECIRC	
921	5.24E-09	H-MSBJ33—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MP112—M	P-MP307—M	RECIRC	
922	5.24E-09	INIT-2AR976	L-MPCC0001-S	L-TP140NR—S	NOATWS
		NOSBO			
923	5.23E-09	E-C2A0605—N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-TRAINA—M
		H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU	NOATWS
924	5.23E-09	INIT-2AC3020A-1	L-HCAFWPA-FU	L-HCAFWPC-FU	L-MP504—1DR
		NOATWS	NOSBO		
925	5.20E-09	2G2-FAILS	INIT-2AC3020A-1	L-HCAFWPB-FU	L-HCAFWPC-FU
		NO-RECOVER	NOATWS	NOSBO	U-C2A0418—P

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		U-OOPCLOOP-Z			
926	5.19E-09	H-MPCC01-1DR	INIT-PCS	N-HCCSINJCTU	NOATWS
		Y-OORV-DEM-Z	Y-RV0201--N		
927	5.19E-09	H-MPCC01-1DR	INIT-PCS	N-HCCSINJCTU	NOATWS
		Y-OORV-DEM-Z	Y-RV0200--N		
928	5.19E-09	INIT-2PE453A-3	L-MP504--1DR	L-TP140--M	NOATWS
		NOSBO			
929	5.18E-09	INIT-2DG30155-2	L-MP141--S	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		
930	5.18E-09	INIT-OTHER-U-RF	M-FLCRIS-1DR		
931	5.18E-09	E-CFCCW-1YR	E-CV103--N	E-MP025--1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	Y1	
932	5.18E-09	H-CVCC0034-P	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
933	5.18E-09	FTR	INIT-CCW	P-MPCC11-1DR	P-TRAINA--M
		Z0			
934	5.17E-09	E-TRAINA--M	FTR	INIT-CCW	U-B4D2P1-1DR
		Z0			
935	5.17E-09	E-TRAINA--M	FTR	INIT-CCW	U-B4D2--1DR
		Z0			
936	5.17E-09	INIT-3AC5034	L-TP140--1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
937	5.17E-09	INIT-3AC5060	L-TP140--1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
938	5.15E-09	INIT-2YD30200-3	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
939	5.15E-09	INIT-2PE453A-3	L-MP504--M	L-TP140NR-S	NOATWS
		NOSBO			
940	5.14E-09	INIT-2TB30153	L-TP140--1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
941	5.13E-09	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-TP140--1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-DGCC01-1DR	U-OOPCLOOP-Z		
942	5.12E-09	INIT-2TB148-7	L-C2CC0001-N	L-TP140--M	NOATWS
		NOSBO			
943	5.11E-09	INIT-2TB148-7	L-MP141--1DR	L-MP504--1DR	L-TP140--1DR
		L-TP140NR1DR	NOATWS	NOSBO	
944	5.09E-09	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-HCNBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOGWLOOP-Z
945	5.09E-09	2G2-FAILS	2G3-FAILS	INIT-2PE633B-2	L-HCNBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOGWLOOP-Z
946	5.08E-09	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-C2A0413-N	U-OOPCLOOP-Z		
947	5.08E-09	FTR	INIT-CRHHVAC	L-HCTP140-U	M-FNA-1651DR
		M-FNE-4221DR	M-HCBCBFAILU	M-HCCRHHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
948	5.08E-09	FTR	INIT-CRHHVAC	L-HCTP140-U	M-FNA-1651DR
		M-FNE-2951DR	M-HCBCBFAILU	M-HCCRHHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
949	5.08E-09	FTR	INIT-CRHHVAC	L-HCTP140-U	M-FNA-0521DR

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		M-FNA-1651DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
950	5.08E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-FNE-2951DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
951	5.08E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-FNA-0511DR
		M-FNA-1651DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
952	5.08E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-FNE-4221DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
953	5.08E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-FNA-0511DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
954	5.08E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-FNA-0521DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
955	5.07E-09	INIT-2DG30155-2	L-FLP141-1DC	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
956	5.07E-09	H-HASMLPT-X	INIT-2TB148-6	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		
957	5.07E-09	H-HASMLPT-X	INIT-2TB148-6	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
958	5.06E-09	INIT-LL	P-FVW459-N	P-HCSWCKK-LL	P-MP112-M
		P-P113KIRKKEY-K			
959	5.06E-09	INIT-LL	P-CV012-N	P-HCSWCKK-LL	P-MP112-M
		P-P113KIRKKEY-K			
960	5.06E-09	INIT-2DG30158-2	L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCSPAREBCV	URECB2A04-Z
961	5.05E-09	INIT-2AC3020A-A	L-TP140-M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
962	5.05E-09	INIT-2PE453A-3	L-MP504-1DR	L-MV4716-M	NOATWS
		NOSBO			
963	5.04E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
964	5.01E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2AC3020A-5	L-HCAFWPA-FU
		L-HCAFWPB-FU	L-HCAFWPC-FU	NOATWS	NOSBO
965	5.00E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPC-FU
		L-MP141-1DR	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3-1DR			
966	5.00E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPC-FU
		L-MP141-1DR	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3-1DR			
967	4.99E-09	INIT-2PE302C	N-HCCSINJCTU	NOATWS	Y1
968	4.99E-09	F-HCDEPRESSU	F-SV3432B-J	INIT-TT	L-HCCSTMU-U
		NOATWS	NOSBO		
969	4.99E-09	F-HCDEPRESSU	F-SV3433B-J	INIT-TT	L-HCCSTMU-U
		NOATWS	NOSBO		
970	4.99E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-CHE-330-S
		M-CHE-331-M	M-FNE-4301DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
971	4.99E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-CHE-330-S
		M-CHE-331-M	M-FNA-1651DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
972	4.99E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-CHE-330-M
		M-CHE-331-S	M-FNE-4301DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
973	4.99E-09	FTR	INIT-CRHVAC	L-HCTP140-U	M-CHE-330-M
		M-CHE-331-S	M-FNA-1651DR	M-HCBCBFAILU	M-HCCRHVACTRIP-U
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
974	4.99E-09	INIT-LOP	L-MPCC01-1DR	L-TP140-M	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCR
975	4.99E-09	INIT-SEIS7	L-TP140-1DR	L-TP140NR1DR	
976	4.99E-09	FTR	INIT-CCW	M-FNE-4301DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOLOCA	NOLOP	P-MP112-M
		Z0			
977	4.99E-09	FTR	INIT-CCW	M-FNA-1651DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOLOCA	NOLOP	P-MP112-M
		Z0			
978	4.98E-09	INIT-2TB148-7	L-C2CC0001-N	L-MV4716-M	NOATWS
		NOSBO			
979	4.98E-09	FTR	INIT-CCW	P-MP112-M	P-MP307-M
		U-B4D2P1-1DR	Z0		
980	4.98E-09	FTR	INIT-CCW	P-MP112-M	P-MP307-M
		U-B4D2-1DR	Z0		
981	4.97E-09	INIT-SLB	NOATWS	T-HV8204-N	T-HV8205-N
		T-OOE-088-Z	TDS30-1		
982	4.97E-09	INIT-SLB	NOATWS	T-HV8204-N	T-HV8205-N
		T-OOE-089-Z	TDS30-1		
983	4.96E-09	INIT-2AC911	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
984	4.96E-09	DLMPSEAL-4HD	FTR	INIT-CCW	P-MP112-M
		P-MPCC11-1DR			
985	4.95E-09	INIT-2AC5040-2	L-MP504-1DR	L-MV4715-M	NOATWS
		NOSBO			
986	4.93E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2AC5047	L-HCTP140-U
		L-MP504-1DR	NOATWS	NOSBO	
987	4.92E-09	INIT-2AC5040-2	L-MP504-S	L-TP140-M	NOATWS
		NOSBO			
988	4.92E-09	INIT-2AC5035-2	L-MP141-S	L-TP140-M	NOATWS
		NOSBO			
989	4.92E-09	INIT-2AC3020A-A	L-MV4716-M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
990	4.91E-09	FTR	INIT-PCS	L-TP140-1DR	L-TP140NR1DR
		M-FNA-1651DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
991	4.91E-09	FTR	INIT-PCS	L-TP140-1DR	L-TP140NR1DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
992	4.89E-09	INIT-LOP	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCS			
993	4.88E-09	INIT-SLB	L-HCCSTMU-U	NOATWS	TDS30-1
994	4.88E-09	FTR	INIT-PCS	L-HCTP140-U	NOATWS

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Mon Jun 17 15:35:47 2002

Created by PRA for 06/17/2002 15:34 (3776 CDF cutsets)

CD: 4.10E-05 LERF: 1.41E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOSBO	U-BCCC01-1DR		
995	4.87E-09	FTR	INIT-2TK30161A-2	L-TP140NR1DR	NOATWS
		NOSBO	U-C4D103-1DO		
996	4.87E-09	INIT-2AR37102A	L-C2CC0001-N	L-HCHV4716PU	L-MV4716---P
		NOATWS	NOSBO		
997	4.86E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TB148-6	L-CVCC0001-P
		NOATWS	NOSBO		
998	4.85E-09	INIT-LOP	L-MPCC01-1DR	L-MV4716---M	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCR
999	4.85E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504---M
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
1000	4.84E-09	FTR	INIT-CCW	NOSBO	P-HTE001---M
		U-BCB2-1DR	Z0		

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Wed Jun 26 08:59:09 2002

Plant: SONG, Unit: 2

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
1	7.76E-06	INIT-SEIS4			
2	2.28E-06	H-HASMLPT-X	INIT-SL	NOATWS	RECIRC
3	5.19E-07	INIT-2TB148-7	L-HCCSTMU-U	NOATWS	NOSBO
4	4.72E-07	ATWS	INIT-TT	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
5	4.67E-07	H-MVCC0046-P	INIT-SL	NOATWS	RECIRC
6	3.74E-07	H-HARFCNL-X	INIT-SL	NOATWS	RECIRC
7	3.57E-07	INIT-2AR37102A	L-HCCSTMU-U	NOATWS	NOSBO
8	3.54E-07	INIT-2AR976	L-HCCSTMU-U	NOATWS	NOSBO
9	3.52E-07	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-HCCSTMU-U
		NOATWS	NOSBO		
10	3.25E-07	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-HCCSTMU-U
		NOATWS	NOSBO		
11	2.79E-07	INIT-2SE30145A	L-MPCC01-1DR	NOATWS	NOSBO
12	2.70E-07	INIT-VR			
13	2.66E-07	INIT-2AC5040-2	L-HCTP140-U	L-MP504-1DR	NOATWS
		NOSBO			
14	2.64E-07	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
15	2.49E-07	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U	K-OORAS-CC-Z
		NOATWS	RECIRC		
16	2.37E-07	INIT-2AC5040-2	L-HCTP140-U	L-MP504-M	NOATWS
		NOSBO			
17	2.18E-07	INIT-2SE30145A	L-MPCC0001-S	NOATWS	NOSBO
18	2.08E-07	INIT-2AC916-3	L-HCCSTMU-U	NOATWS	NOSBO
19	2.08E-07	INIT-SEIS2	L-HCCSTMU-U	NOATWS	NOSBO
20	1.81E-07	INIT-SEIS8	U-HCG005SEIU		
21	1.80E-07	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
22	1.80E-07	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
23	1.68E-07	INIT-3TB148-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
24	1.68E-07	INIT-SEIS8	L-TP140-1DR	L-TP140NR1DR	
25	1.61E-07	INIT-2AC5035-2	L-MP141-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
26	1.61E-07	INIT-2AC5040-2	L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
27	1.57E-07	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRAINA-M		
28	1.57E-07	INIT-LOP	L-CVCC0001-P	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
29	1.55E-07	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA-M	RECIRC		
30	1.55E-07	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB-M	RECIRC		
31	1.55E-07	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA-M	RECIRC		
32	1.55E-07	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB-M	RECIRC		
33	1.55E-07	ATWS	INIT-PCS	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
34	1.52E-07	INIT-2TB148-7	L-CVCC0001-P	NOATWS	NOSBO
35	1.52E-07	INIT-2DG30155-2	L-MP141-1DR	L-TP140-1DR	L-TP140NR1DR

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOSBO	URECB2A06-Z	
36	1.44E-07	H-HADEBRIS-X	INIT-SL	NOATWS	RECIRC
37	1.43E-07	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-MV9303-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
38	1.43E-07	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-MV9305-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
39	1.43E-07	INIT-2AC5040-2	L-MP504-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
40	1.43E-07	INIT-2AC5035-2	L-MP141-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
41	1.38E-07	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1-Z	L-HCNSBOMANU	NOATWS	NOLOP
		NOSBO			
42	1.38E-07	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2-Z	L-HCNSBOMANU	NOATWS	NOLOP
		NOSBO			
43	1.35E-07	INIT-2DG30155-2	L-MP141-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
44	1.34E-07	H-HAXV7766-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXAZ			
45	1.34E-07	H-HAXV7767-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXAZ			
46	1.34E-07	FTR	INIT-CRHHVAC	L-HCNSBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16021DO	
47	1.34E-07	FTR	INIT-CRHHVAC	L-HCNSBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C2A08101DO	
48	1.34E-07	FTR	INIT-CRHHVAC	L-HCNSBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16011DO	
49	1.23E-07	INIT-2TB148-7	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
50	1.23E-07	H-MPCC01-1DR	INIT-SL	NCHCCSINJCTU	NOATWS
51	1.19E-07	2G2-FAILS	INIT-2AC5035-2	L-HCTP140-U	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
52	1.19E-07	2G3-FAILS	INIT-2AC5040-2	L-HCTP140-U	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
53	1.09E-07	FTR	INIT-CRHHVAC	L-HCNSBOMANU	M-HCBCBFAILU
		M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-T216X-1DR	
54	1.07E-07	H-MP019-1DR	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
55	1.07E-07	INIT-2AC5044	L-MP141-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
56	1.07E-07	INIT-LOP	L-HCCSTMU-U	NOATWS	NOSBO
		U-HCOSPWR60U	U-HCOSPWRH1U	U-OOPCLOOP-Z	
57	1.07E-07	2G2-FAILS	2G3-FAILS	INIT-SEIS2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCG005SEIU
58	1.05E-07	INIT-2AR37102A	L-CVCC0001-P	NOATWS	NOSBO
59	1.04E-07	INIT-2AR976	L-CVCC0001-P	NOATWS	NOSBO
60	1.03E-07	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-CVCC0001-P
		NOATWS	NOSBO		
61	1.03E-07	H-MVCC0035-P	INIT-SL	NOATWS	RECIRC
62	1.03E-07	H-MVCC0033-P	INIT-SL	NOATWS	RECIRC

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
63	1.03E-07	H-MVCC0038-P	INIT-SL	NOATWS	RECIRC
64	1.03E-07	H-MVCC0036-P	INIT-SL	NOATWS	RECIRC
65	1.01E-07	INIT-3TB148-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
66	1.00E-07	H-HAXV7766-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXBZ			
67	1.00E-07	H-HAXV7767-X	INIT-SL	NOATWS	RECIRC
		X-HX-NX-AXBZ			
68	1.00E-07	H-ZZ18TO17-K	INIT-2SE12170	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		
69	1.00E-07	H-ZZ18TO17-K	INIT-2SE12170	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
70	9.95E-08	H-HASMLT-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
71	9.95E-08	H-HASMLT-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		
72	9.89E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140-1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-DGCC01-1DR			
73	9.63E-08	INIT-2TB148-7	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
74	9.55E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-CVCC0001-P
		NOATWS	NOSBO		
75	9.49E-08	INIT-2AC5044	L-MP141-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
76	9.12E-08	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1-Z	L-HCTP140-U	NOATWS	NOLOP
		NOSBO			
77	9.12E-08	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2-Z	L-HCTP140-U	NOATWS	NOLOP
		NOSBO			
78	9.04E-08	INIT-2SE30145A	L-C2CC0001-N	NOATWS	NOSBO
79	8.96E-08	INIT-2AC3020A-1	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		
80	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B10011DO	
81	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C2A08101DO	
82	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C2A08091DO	
83	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16011DO	
84	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-C3B16021DO	
85	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-T210X-1DR	
86	8.85E-08	FTR	INIT-CRHHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA

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Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOLOP	NOSBO	U-C3B10021DO	
87	8.65E-08	INIT-2TB148-6	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
88	8.64E-08	INIT-SL	L-HCCSTMU-U	NOATWS	
89	8.52E-08	E-CFCCW-1YR	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-MP112-M	P-MP307-M
		Z0			
90	8.48E-08	INIT-2AR37102A	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
91	8.41E-08	INIT-2AR976	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
92	8.33E-08	ATWS	INIT-2AR37102A	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
93	8.30E-08	INIT-2AC5040-2	L-C2A0603-N	L-HCTP140-U	NOATWS
		NOSBO			
94	8.26E-08	ATWS	INIT-2AR976	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
95	8.14E-08	FGHCMFWREC-U	INIT-2TB30153	L-HCCSTMU-U	NOATWS
		NOSBO			
96	8.13E-08	E-TRAINA-M	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
97	8.02E-08	E-TRAINB-M	H-MV9303-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
98	8.02E-08	E-TRAINB-M	H-MV9305-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
99	8.02E-08	E-TRAINA-M	H-MV9304-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
100	8.02E-08	E-TRAINA-M	H-MV9302-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
101	7.62E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-1DR	U-OOPCLOOP-Z		
102	7.60E-08	INIT-LOP	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCR			
103	7.42E-08	FTR	INIT-TT	L-HCTP140-U	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
104	7.42E-08	FTR	INIT-TT	L-HCTP140-U	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
105	7.26E-08	INIT-2AR50111	L-HCCSTMU-U	NOATWS	NOSBO
106	7.19E-08	2G2-FAILS	INIT-2AC5035-2	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOLOP	NOSBO	U-C2A0418-P
107	7.19E-08	2G3-FAILS	INIT-2AC5040-2	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOLOP	NOSBO	U-C2A0618-P
108	7.19E-08	FTR	INIT-CRHVAC	L-HCTP140-U	M-HCBCBFAILU
		M-HCCRHVACTRIP-U	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-T216X-1DR	
109	7.09E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M			
110	6.99E-08	INIT-2TB148-7	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
111	6.93E-08	INIT-2AC5040-2 NOSBO	L-MP504-1DR	L-TP140NR-S	NOATWS
112	6.93E-08	INIT-2AC5035-2 NOSBO	L-MP141-1DR	L-TP140NR-S	NOATWS
113	6.76E-08	INIT-LOP U-HCOSPWR60U	L-CVCC0002-P U-OOPCLOOP-Z	NOATWS	NOSBO
114	6.68E-08	INIT-2PE453A-3 NOSBO	L-HCTP140-U	L-MP504-1DR	NOATWS
115	6.62E-08	INIT-2AR37102A NOATWS	L-MPCC0001-S NOSBO	L-TP140-1DR	L-TP140NR1DR
116	6.57E-08	INIT-2TB148-7	L-CVCC0002-P	NOATWS	NOSBO
117	6.57E-08	INIT-2AR976 NOATWS	L-MPCC0001-S NOSBO	L-TP140-1DR	L-TP140NR1DR
118	6.54E-08	INIT-2DG30155-2 NOSBO	L-MP141-1DR URECB2A06-Z	L-TP140NR-S	NOATWS
119	6.51E-08	INIT-2AC3020A-A NOATWS MULTIPLYBYP4	L-HCTP140-U NOLOCA	M-HCBCBFAILU NOLOP	M-HCNOSIAS-U NOSBO
120	6.34E-08	INIT-2AC5040-2 NOSBO	L-HCTP140-U	L-MP504-S	NOATWS
121	6.24E-08	INIT-2PE302C Y-RV0201-N	N-HCCSINJCTU	NOATWS	Y-OORV-DEM-Z
122	6.24E-08	INIT-2PE302C Y-RV0200-N	N-HCCSINJCTU	NOATWS	Y-OORV-DEM-Z
123	6.16E-08	INIT-2AC5035-2 NOSBO	L-MP141-M	L-TP140NR-S	NOATWS
124	6.16E-08	INIT-2AC5040-2 NOSBO	L-MP504-M	L-TP140NR-S	NOATWS
125	6.10E-08	INIT-SEIS2	L-CVCC0001-P	NOATWS	NOSBO
126	6.10E-08	INIT-2AC916-3	L-CVCC0001-P	NOATWS	NOSBO
127	5.94E-08	INIT-2YD30200-3 NOATWS MULTIPLYBYP4	L-HCTP140-U NOLOCA	M-HCBCBFAILU NOLOP	M-HCNOSIAS-U NOSBO
128	5.94E-08	INIT-2PE453A-3 NOSBO	L-HCTP140-U	L-MP504-M	NOATWS
129	5.81E-08	INIT-2DG30155-2 NOSBO	L-MP141-M URECB2A06-Z	L-TP140NR-S	NOATWS
130	5.80E-08	INIT-2AC3020A-6 NOATWS	L-HCAFWPA-FU NOSBO	L-HCAFWPB-FU	L-HCAFWPC-FU
131	5.70E-08	H-MP019-1DR NCHCCSINJCTU	H-MV9303-P NOATWS	H-ZZ18TO17-K RECIRC	INIT-SL
132	5.70E-08	H-MP019-1DR NCHCCSINJCTU	H-MV9305-P NOATWS	H-ZZ18TO17-K RECIRC	INIT-SL
133	5.64E-08	H-MVCC0040-N RECIRC	H-ZZ18TO17-K	INIT-SL	NOATWS
134	5.63E-08	H-MV9302-P RECIRC	H-MV9305-P	INIT-SL	NOATWS
135	5.63E-08	H-MV9303-P RECIRC	H-MV9304-P	INIT-SL	NOATWS
136	5.63E-08	H-MV9304-P RECIRC	H-MV9305-P	INIT-SL	NOATWS
137	5.63E-08	H-MV9302-P RECIRC	H-MV9303-P	INIT-SL	NOATWS
138	5.61E-08	H-HASMLPT-X	INIT-ML	RECIRC	
139	5.51E-08	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V

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Number	Probability	Event	Event	Event	Event
		K-OOLV2-Z	L-TP140-1DR	L-TP140NR1DR	NOATWS
		NOLOP	NOSBO		
140	5.51E-08	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLV1-Z	L-TP140-1DR	L-TP140NR1DR	NOATWS
		NOLOP	NOSBO		
141	5.31E-08	INIT-2TB148-7	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO			
142	5.26E-08	H-MPCC0001-S	INIT-SL	NCHCCSINJCTU	NOATWS
143	5.23E-08	INIT-2TB148-6	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
144	5.13E-08	H-HASMLT-X	INIT-LL	RECIRC	
145	5.02E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCR			
146	5.02E-08	INIT-2AC5035-2	L-C2A0404-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
147	5.02E-08	INIT-2AC5040-2	L-C2A0603-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
148	4.95E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-088-Z
		TDS30-1COMPLEMNT			
149	4.95E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-089-Z
		TDS30-1COMPLEMNT			
150	4.95E-08	INIT-LOP	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCS			
151	4.93E-08	INIT-SEIS2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
152	4.93E-08	INIT-2AC916-3	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
153	4.73E-08	INIT-2DG30155-2	L-C2A0404-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
154	4.68E-08	INIT-2AR2494	L-HCCSTMU-U	NOATWS	NOSBO
155	4.63E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCR			
156	4.60E-08	INIT-2AC5044	L-MP141-1DR	L-TP140NR-S	NOATWS
		NOSBO			
157	4.56E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140NR-S
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
158	4.52E-08	INIT-2AR37102A	L-CVCC0002-P	NOATWS	NOSBO
159	4.49E-08	FTR	INIT-TT	L-TP140-1DR	L-TP140NR1DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
160	4.49E-08	FTR	INIT-TT	L-TP140-1DR	L-TP140NR1DR
		M-FNA-1651DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
161	4.48E-08	INIT-2AR976	L-CVCC0002-P	NOATWS	NOSBO
162	4.46E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-CVCC0002-P
		NOATWS	NOSBO		
163	4.41E-08	INIT-2PE92A	L-HCCSTMU-U	NOATWS	NOSBO
164	4.41E-08	INIT-2AC3020A-9	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		
165	4.37E-08	INIT-3TB148-2	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		MULTIPLYBYP4			
166	4.23E-08	INIT-2TB148-7	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
167	4.20E-08	H-TRAINB—M	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112—M			
168	4.18E-08	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-BY008—S	MULTIPLYBY1P54
169	4.18E-08	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-BY007—S	MULTIPLYBY1P54
170	4.17E-08	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP112—M	P-MP113-1DR	P-P113KIRKKEY-K	Z0
171	4.15E-08	INIT-2TB148-7	L-MPCC0001-S	L-TP140NR-S	NOATWS
		NOSBO			
172	4.12E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-CVCC0002-P
		NOATWS	NOSBO		
173	4.12E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
174	4.12E-08	2G2-FAILS	2G3-FAILS	INIT-2PE633B-2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
175	4.09E-08	INIT-2AC5044	L-MP141—M	L-TP140NR-S	NOATWS
		NOSBO			
176	4.04E-08	INIT-2DG30158-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
177	4.04E-08	INIT-2DG30155-2	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
178	4.04E-08	INIT-2PE453A-3	L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
179	4.01E-08	INIT-2SE30145A	L-CVCC0002-N	NOATWS	NOSBO
180	3.99E-08	INIT-2TB148-7	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
181	3.93E-08	INIT-2AC3020A-A	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
182	3.86E-08	INIT-2TB30153	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
183	3.85E-08	INIT-2AC916-3	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
184	3.85E-08	INIT-SEIS2	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
185	3.83E-08	INIT-2AC5035-2	L-MP141—S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
186	3.83E-08	INIT-2AC5040-2	L-MP504—S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
187	3.77E-08	H-MV9305—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495—P	RECIRC		
188	3.77E-08	H-MV9303—P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495—P	RECIRC		
189	3.65E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC0001-S	
190	3.65E-08	INIT-2AR37102A	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO			

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Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
191	3.63E-08	INIT-2PE633B-2	L-HCCSTMU-U	NOATWS	NOSBO
192	3.63E-08	INIT-3PE633B-2	L-HCCSTMU-U	NOATWS	NOSBO
193	3.62E-08	INIT-2AR976	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO			
194	3.61E-08	INIT-2DG30155-2	L-MP141-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
195	3.59E-08	INIT-2YD30200-3	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
196	3.59E-08	INIT-2PE453A-3	L-MP504-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
197	3.53E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140-8HR
		L-TP140NR1DR	NO-RECOVER	NOATWS	U-DGCC01-1DR
198	3.48E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-3TB148-2	L-HCCSTMU-U
		NOATWS	NOSBO		
199	3.48E-08	INIT-2SE30145A	L-MP141-1DR	L-MP504-1DR	NOATWS
		NOSBO			
200	3.42E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3-1DR			
201	3.42E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3-1DR			
202	3.42E-08	INIT-2AR63116-2	L-HCCSTMU-U	NOATWS	NOSBO
203	3.39E-08	INIT-2TB148-5	L-HCCSTMU-U	NOATWS	NOSBO
204	3.38E-08	H-MV9302-P	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
205	3.38E-08	H-MV9304-P	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
206	3.38E-08	H-MV9303-P	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
207	3.38E-08	H-MV9305-P	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
208	3.33E-08	INIT-2AC5044	L-C2A0404-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
209	3.31E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
210	3.30E-08	FTR	INIT-CCW	P-MP112-M	P-MPCC11-1DR
		Z0			
211	3.27E-08	INIT-LOP	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCR
212	3.27E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC0001-S
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCS			
213	3.26E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-HTE001-M		
214	3.22E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE001-M	RECIRC		
215	3.22E-08	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE002-M	RECIRC		
216	3.22E-08	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE002-M	RECIRC		
217	3.22E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HTE001-M	RECIRC		
218	3.21E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-3TB148-2	L-HCCSTMU-U

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOSBO		
219	3.21E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2---M	U-OOPCLOOP-Z		
220	3.18E-08	INIT-2AC5040-2	L-HCCSTMU-U	NOATWS	NOSBO
221	3.18E-08	INIT-2AC5035-2	L-HCCSTMU-U	NOATWS	NOSBO
222	3.14E-08	F-HCDEPRESSU	INIT-2AC3020A-A	L-HCCSTMU-U	NOATWS
		NOSBO			
223	3.13E-08	ATWS	INIT-2AR37102A	K-OOMECHSCRM	Z126-1
224	3.12E-08	2G2-FAILS	2G3-FAILS	INIT-2PE453A-2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
225	3.10E-08	ATWS	INIT-2AR976	K-OOMECHSCRM	Z126-1
226	3.10E-08	2G2-FAILS	INIT-2AC5035-2	L-TP140NR-S	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
227	3.10E-08	2G3-FAILS	INIT-2AC5040-2	L-TP140NR-S	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
228	3.09E-08	INIT-2SE30145A	L-MP141-1DR	L-MP504-M	NOATWS
		NOSBO			
229	3.09E-08	INIT-2SE30145A	L-MP141-M	L-MP504-1DR	NOATWS
		NOSBO			
230	3.06E-08	INIT-2SE30145A	L-HCCSTMU-U	NOATWS	NOSBO
231	3.06E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
232	3.05E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G3-1DR	U-OOPCLOOP-Z		
233	3.03E-08	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U	K-OORAS-A-Z
		NOATWS	P-TRAINB-M	RECIRC	
234	3.03E-08	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U	K-OORAS-B-Z
		NOATWS	P-TRAINA-M	RECIRC	
235	3.03E-08	INIT-SL	K-HCCIAS-U	K-OOCIAS-A-Z	NOATWS
		P-TRAINB-M			
236	3.01E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MPCC0001-S
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECMPCCS			
237	3.00E-08	INIT-2DG30155-2	L-HCCSTMU-U	NOATWS	NOSBO
		URECB2A06-Z			
238	3.00E-08	H-CVCC0039-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		RECIRC			
239	3.00E-08	H-CVCC0040-P	H-ZZ18TO17-K	INIT-SL	INJECT
		LOCA	NOATWS		
240	2.94E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141-M
		L-TP140NR1DR	NOATWS	NOSBO	
241	2.92E-08	2G2-FAILS	2G3-FAILS	INIT-3PE453A-2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
242	2.90E-08	FGHCCNDREC-U	INIT-2AC3020A-A	L-HCCSTMU-U	NOATWS
		NOSBO			
243	2.86E-08	INIT-2AC5035-2	L-HCHV4716PU	L-MP141-1DR	L-MV4716-P
		NOATWS	NOSBO		
244	2.86E-08	INIT-2AC5040-2	L-HCHV4716PU	L-MP504-1DR	L-MV4716-P
		NOATWS	NOSBO		
245	2.85E-08	INIT-2AR37102A	L-MPCC0001-S	L-TP140NR-S	NOATWS
		NOSBO			
246	2.84E-08	INIT-LL	P-HCSWCKK-LL	P-MP112-M	P-MP113-S
		P-P113KIRKKEY-K			

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Number	Probability	Event	Event	Event	Event
247	2.83E-08	INIT-2AR976	L-MPCC0001-S	L-TP140NR-S	NOATWS
		NOSBO			
248	2.81E-08	E-CFCCW-1YR	E-CV103-N	E-MP025-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	Z0	
249	2.80E-08	INIT-2AC916-3	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
250	2.80E-08	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	INIT-SL
		K-HCCIAS-U	K-OOCIAS-A-Z	NOATWS	
251	2.80E-08	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-ZZ18TO17-K
		INIT-SL	K-HCRAS-U	K-OORAS-A-Z	NOATWS
		RECIRC			
252	2.79E-08	H-C2CC0001-N	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
253	2.78E-08	INIT-2AC5040-2	L-CV547-N	L-HCTP140-U	NOATWS
		NOSBO			
254	2.75E-08	INIT-2PE453A-2	L-HCCSTMU-U	NOATWS	NOSBO
255	2.74E-08	INIT-2AR37102A	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
256	2.72E-08	INIT-2AR976	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
257	2.72E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141-M
		L-TP140NR1DR	NOATWS	NOSBO	
258	2.70E-08	INIT-2PE302C	N-HCCSINJCTU	NOATWS	Z0
259	2.70E-08	INIT-2DG30155-2	L-HCHV4716PU	L-MP141-1DR	L-MV4716-P
		NOATWS	NOSBO	URECB2A06-Z	
260	2.69E-08	ATWS	INIT-TT	K-OOMECHSCRM	KTT30-3
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
261	2.69E-08	ATWS	D-HCBORATE-U	INIT-TT	K-OOMECHSCRM
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
262	2.67E-08	INIT-2AC5040-2	L-FLP504-1DC	L-HCTP140-U	NOATWS
		NOSBO			
263	2.63E-08	INIT-2AC916-3	L-CVCC0002-P	NOATWS	NOSBO
264	2.63E-08	INIT-SEIS2	L-CVCC0002-P	NOATWS	NOSBO
265	2.62E-08	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0200-P
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
266	2.62E-08	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0201-P
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
267	2.57E-08	INIT-3PE453A-2	L-HCCSTMU-U	NOATWS	NOSBO
268	2.57E-08	INIT-3AC5034	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
269	2.57E-08	INIT-3AC5060	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
270	2.55E-08	H-MVCC0040-P	INIT-SL	NCHCCSINJCTU	NOATWS
271	2.55E-08	INIT-2TB30153	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
272	2.54E-08	INIT-2AC5035-2	L-HCHV4716PU	L-MP141-M	L-MV4716-P
		NOATWS	NOSBO		
273	2.54E-08	INIT-2AC5040-2	L-HCHV4716PU	L-MP504-M	L-MV4716-P
		NOATWS	NOSBO		
274	2.54E-08	INIT-2AC5044	L-MP141-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
275	2.54E-08	INIT-SL	L-CVCC0001-P	NOATWS	
276	2.54E-08	INIT-3TB148-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
277	2.51E-08	INIT-2DG30158-2	L-HCTP140-U	L-MP504-1DR	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04-Z	
278	2.44E-08	INIT-2DG30155-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
279	2.44E-08	INIT-2DG30158-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
280	2.44E-08	FTR	INIT-PCS	L-HCTP140-U	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
281	2.44E-08	FTR	INIT-PCS	L-HCTP140-U	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
282	2.40E-08	INIT-LDC2	L-HCCSTMU-U	L-HCMP504C4V	NOATWS
		MULTIPLYBY10			
283	2.40E-08	INIT-LDC1	L-HCCSTMU-U	L-HCMP141C4V	NOATWS
		MULTIPLYBY10			
284	2.40E-08	INIT-2DG30155-2	L-HCHV4716PU	L-MP141-M	L-MV4716-P
		NOATWS	NOSBO	URECB2A06-Z	
285	2.39E-08	FGHCMFWREC-U	INIT-2TB30153	L-CVCC0001-P	NOATWS
		NOSBO			
286	2.37E-08	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1-Z	L-TP140NR-S	NOATWS	NOLOP
		NOSBO			
287	2.37E-08	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2-Z	L-TP140NR-S	NOATWS	NOLOP
		NOSBO			
288	2.33E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-1	L-TP140NR1DR
		NOATWS	NOSBO		
289	2.33E-08	FTR	INIT-CCW	NOSBO	P-TRAINA-M
		U-BCB2-1DR	Z0		
290	2.33E-08	INIT-LOP	L-TK121-D	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
291	2.33E-08	INIT-LOP	L-TK120-D	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOPCLOOP-Z		
292	2.28E-08	INIT-2AC5040-2	L-HAXV533-X	L-HCTP140-U	NOATWS
		NOSBO			
293	2.27E-08	INIT-2TB148-7	L-TK121-D	NOATWS	NOSBO
294	2.27E-08	INIT-2TB148-7	L-TK120-D	NOATWS	NOSBO
295	2.26E-08	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-MV6495-P		
296	2.25E-08	INIT-2TB148-6	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
297	2.25E-08	FTR	INIT-TT	L-HCNSBOMANU	NOATWS
		NOSBO	U-BCCC01-1DR		
298	2.24E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M	RECIRC		
299	2.24E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M	RECIRC		
300	2.23E-08	INIT-2DG30158-2	L-HCTP140-U	L-MP504-M	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04-Z	

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Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
301	2.19E-08	INIT-2TB148-7	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716—P
		NOATWS	NOSBO		
302	2.16E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140NR-S	NOATWS	NOSBO	L-HCRECMPCCR
303	2.16E-08	INIT-2AC5040-2	L-C2A0603-N	L-TP140NR-S	NOATWS
		NOSBO			
304	2.16E-08	INIT-2AC5035-2	L-C2A0404-N	L-TP140NR-S	NOATWS
		NOSBO			
305	2.15E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-1	L-TP140NR1DR
		NOATWS	NOSBO		
306	2.13E-08	INIT-2AR50111	L-CVCC0001-P	NOATWS	NOSBO
307	2.13E-08	INIT-LOP	L-MPCC0001-S	L-TP140NR-S	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCS
308	2.12E-08	INIT-2AC916-3	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO			
309	2.12E-08	INIT-SEIS2	L-MPCC01-1DR	L-TP140NR-S	NOATWS
		NOSBO			
310	2.12E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-089-Z
		TDS30-1			
311	2.12E-08	INIT-SLB	NOATWS	T-HVCC0001-N	T-OOE-088-Z
		TDS30-1			
312	2.11E-08	INIT-2AC5044	L-HCCSTMU-U	NOATWS	NOSBO
313	2.09E-08	FGHCMFWREC-U	INIT-2PE633B-1	L-HCCSTMU-U	NOATWS
		NOSBO			
314	2.09E-08	FGHCMFWREC-U	INIT-3PE453A-1	L-HCCSTMU-U	NOATWS
		NOSBO			
315	2.09E-08	FGHCMFWREC-U	INIT-3PE633B-1	L-HCCSTMU-U	NOATWS
		NOSBO			
316	2.09E-08	FGHCMFWREC-U	INIT-2PE453A-1	L-HCCSTMU-U	NOATWS
		NOSBO			
317	2.08E-08	INIT-2PE453A-3	L-C2A0603-N	L-HCTP140-U	NOATWS
		NOSBO			
318	2.08E-08	INIT-3AC5060	L-HCTP140-U	M-CHE-335-M	M-HCVENT-EE
		NOATWS	NOSBO		
319	2.08E-08	INIT-3AC5034	L-HCTP140-U	M-CHE-336-M	M-HCVENT-EE
		NOATWS	NOSBO		
320	2.07E-08	H-MP019—S	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRAINA—M		
321	2.07E-08	INIT-2AC5040-2	L-MP504—1DR	L-TP140—M	NOATWS
		NOSBO			
322	2.07E-08	INIT-2AC5035-2	L-MP141—1DR	L-TP140—M	NOATWS
		NOSBO			
323	2.06E-08	FGHCMFWREC-U	INIT-2YD30200-1	L-HCCSTMU-U	NOATWS
		NOSBO			
324	2.05E-08	INIT-SL	L-MPCC01-1DR	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
325	2.05E-08	INIT-LOP	L-C2CC0001-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECC2CCN			
326	2.04E-08	H-MVCC0046-P	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
327	2.04E-08	H-MVCC0046-P	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
328	2.04E-08	INIT-2DG30155-2	L-C2A0404-N	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
329	2.04E-08	FTR	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOSBO	U-B4D2-1DR	MULTIPLYBY17P1	
330	2.04E-08	FTR	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOSBO	U-B4D1-1DR	MULTIPLYBY17P1	
331	2.02E-08	2G3-FAILS	E-NCL-A-K	INIT-SEIS5A	NOATWS
		NOLOP	U-DG2G3-1DR		
332	2.02E-08	2G2-FAILS	E-NCL-B-K	INIT-SEIS5A	NOATWS
		NOLOP	U-DG2G2-1DR		
333	2.02E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-P	
334	2.01E-08	INIT-2PE302C	L-HCCSTMU-U	NOATWS	NOSBO
335	2.01E-08	INIT-2AC5040-2	L-MP504-1DR	L-MV4716-M	NOATWS
		NOSBO			
336	2.01E-08	INIT-2AC5035-2	L-MP141-1DR	L-MV4716-M	NOATWS
		NOSBO			
337	2.00E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140NR-S	NOATWS	NOSBO	L-HCRECMPCCR
338	1.98E-08	H-C2A0608-N	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-TRINA-M		
339	1.95E-08	INIT-2DG30155-2	L-MP141-1DR	L-TP140-M	NOATWS
		NOSBO	URECB2A06-Z		
340	1.94E-08	INIT-LOP	L-CVCC0001-P	NOATWS	NOSBO
		U-HCOSPWR60U	U-OOGWLOOP-Z		
341	1.93E-08	FTR	INIT-TT	L-TP140NR-S	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
342	1.93E-08	FTR	INIT-TT	L-TP140NR-S	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
343	1.93E-08	FGHCMFWREC-U	INIT-2TB30153	L-MPCC01-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
344	1.92E-08	FTR	INIT-2DG30155-2	L-HCNSBOMANU	NOATWS
		NOSBO	U-B4D1-1DR	URECB2A06-Z	MULTIPLYBY17P1
345	1.90E-08	INIT-2DG30155-2	L-MP141-1DR	L-MV4716-M	NOATWS
		NOSBO	URECB2A06-Z		
346	1.90E-08	INIT-2AC5044	L-HCHV4716PU	L-MP141-1DR	L-MV4716-P
		NOATWS	NOSBO		
347	1.90E-08	FGHCMFWREC-U	INIT-2TB148-2	L-HCCSTMU-U	NOATWS
		NOSBO			
348	1.88E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DG2G2-1DR	U-DG2G3-1DR	
349	1.88E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCHV4716PU
		L-MV4716-P	NO-RECOVER	NOATWS	U-DGCC01-1DR
350	1.82E-08	INIT-2TB148-7	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
351	1.82E-08	INIT-LOP	L-CVCC0002-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
352	1.81E-08	H-HCP17STRTU	H-MP018-1DR	H-MP019-1DR	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	
353	1.80E-08	INIT-3TB148-2	L-HCHV4716PU	L-MV4716-P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
354	1.80E-08	INIT-2AC3020A-2	L-HCAFWPA-FU	L-HCAFWPB-FU	L-HCAFWPC-FU
		NOATWS	NOSBO		

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
355	1.80E-08	2G2-FAILS	INIT-2AC5035-2	L-HCTP140-U	NOATWS
		NOLOP	NOSBO	U-BY007-S	
356	1.80E-08	2G3-FAILS	INIT-2AC5040-2	L-HCTP140-U	NOATWS
		NOLOP	NOSBO	U-BY008-S	
357	1.79E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TB148-6	L-HCCSTMU-U
		NOATWS	NOSBO		
358	1.79E-08	INIT-2AC5040-2	L-MP504-M	L-MV4716-M	NOATWS
		NOSBO			
359	1.77E-08	ATWS	INIT-LOP	K-OOMECHSCRM	U-OOPCLOOP-Z
		Z126-1COMPLEMENT	Z250-2		
360	1.77E-08	INIT-2TB148-7	L-CVCC0002-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
361	1.77E-08	INIT-2AC5047	L-HCTP140-U	L-MP504-1DR	NOATWS
		NOSBO	U-HCSPAREBCV		
362	1.76E-08	E-CV103-N	E-HCSWINGB-Z	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-TRAINA-M		
363	1.74E-08	INIT-2PE453A-3	L-MP504-1DR	L-TP140NR-S	NOATWS
		NOSBO			
364	1.72E-08	INIT-2AR50111	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
365	1.72E-08	INIT-2TB148-7	L-C2CC0001-N	L-TP140NR-S	NOATWS
		NOSBO			
366	1.71E-08	INIT-2TB148-7	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
367	1.70E-08	INIT-2AC3020A-A	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
368	1.69E-08	ATWS	INIT-2AR50111	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
369	1.69E-08	INIT-2AC916-3	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
370	1.69E-08	INIT-2AC5044	L-HCHV4716PU	L-MP141-M	L-MV4716-P
		NOATWS	NOSBO		
371	1.68E-08	INIT-2AC5035-2	L-CV121-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
372	1.68E-08	INIT-2AC5040-2	L-CV547-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
373	1.66E-08	INIT-SEIS2	L-MPCC0001-S	L-TP140NR-S	NOATWS
		NOSBO			
374	1.66E-08	INIT-2AC916-3	L-MPCC0001-S	L-TP140NR-S	NOATWS
		NOSBO			
375	1.66E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCG005FIRU
		U-OOPCLOOP-Z			
376	1.66E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TB148-6	L-HCCSTMU-U
		NOATWS	NOSBO		
377	1.65E-08	INIT-2AC5035-2	L-MP141-S	L-TP140NR-S	NOATWS
		NOSBO			
378	1.65E-08	INIT-2AC5040-2	L-MP504-S	L-TP140NR-S	NOATWS
		NOSBO			
379	1.64E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
380	1.64E-08	H-HARFCNL-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		

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Number	Probability	Event	Event	Event	Event
381	1.64E-08	H-HARFCNL-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
382	1.64E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCTP140-U	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-1DR	U-OOPCLOOP-Z		
383	1.64E-08	INIT-SLB	K-HCMSIS-U	K-OOMSISCC-Z	NOATWS
		T-OOE-088-Z	TDS30-1COMPLEMNT		
384	1.64E-08	INIT-SLB	K-HCMSIS-U	K-OOMSISCC-Z	NOATWS
		T-OOE-089-Z	TDS30-1COMPLEMNT		
385	1.62E-08	INIT-2AC5040-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
386	1.62E-08	INIT-2AC5035-2	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
387	1.62E-08	INIT-2AC5040-2	L-FLP504-1DC	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
388	1.62E-08	INIT-2AC5035-2	L-FLP141-1DC	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
389	1.61E-08	INIT-SEIS7	U-HCG005SEIU		
390	1.60E-08	INIT-SL	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
391	1.59E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPB-FU	L-HCAFWPC-FU	NO-RECOVER	NOATWS
		NOSBO	U-OOPCLOOP-Z		
392	1.59E-08	INIT-2AC916-3	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
393	1.59E-08	INIT-SEIS2	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
394	1.59E-08	INIT-2PE453A-3	L-HCTP140-U	L-MP504-S	NOATWS
		NOSBO			
395	1.59E-08	INIT-2DG30155-2	L-CV121-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
396	1.58E-08	INIT-2TB148-7	L-MPCC01-1DR	L-TP140-M	NOATWS
		NOSBO			
397	1.58E-08	INIT-LOP	L-MP141-1DR	L-MP504-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	U-HCOSPWR60U
		U-OOPCLOOP-Z			
398	1.57E-08	H-HCP17STRTU	H-MP018-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	P-TRAINB-M	
399	1.57E-08	E-CFCCW-1YR	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-MP112-M	P-MP307-M
		Y1			
400	1.57E-08	INIT-2AC5047	L-HCTP140-U	L-MP504-M	NOATWS
		NOSBO	U-HCSPAREBCV		
401	1.57E-08	E-TRAINB-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NOATWS	RECIRC	
402	1.57E-08	E-TRAINA-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NOATWS	RECIRC	
403	1.57E-08	E-TRAINB-M	INIT-SL	K-HCCIAS-U	K-OOCIAS-A-Z
		NOATWS			
404	1.56E-08	INIT-2AC3026	L-HCCSTMU-U	NOATWS	NOSBO
405	1.56E-08	INIT-2AR37102A	L-TK121-D	NOATWS	NOSBO
406	1.56E-08	INIT-2AR37102A	L-TK120-D	NOATWS	NOSBO
407	1.56E-08	INIT-2DG30155-2	L-MP141-S	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		
408	1.55E-08	INIT-3AC5060	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU

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Number	Probability	Event	Event	Event	Event
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
409	1.55E-08	INIT-3AC5034	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
410	1.55E-08	INIT-2YD30200-3	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
411	1.55E-08	H-HASMLPT-X	INIT-TT	NOATWS	RECIRC
		Y-OORVTTDEMZ	Y-RV0201-N		
412	1.55E-08	H-HASMLPT-X	INIT-TT	NOATWS	RECIRC
		Y-OORVTTDEMZ	Y-RV0200-N		
413	1.55E-08	INIT-2PE453A-3	L-MP504-M	L-TP140NR-S	NOATWS
		NOSBO			
414	1.55E-08	INIT-2AR976	L-TK120-D	NOATWS	NOSBO
415	1.55E-08	INIT-2AR976	L-TK121-D	NOATWS	NOSBO
416	1.54E-08	INIT-2TB30153	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
417	1.54E-08	INIT-2TB148-7	L-MPCC01-1DR	L-MV4716-M	NOATWS
		NOSBO			
418	1.54E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-TP140-1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-DGCC01-1DR	U-OOPCLOOP-Z		
419	1.54E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-TK121-D
		NOATWS	NOSBO		
420	1.54E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-TK120-D
		NOATWS	NOSBO		
421	1.54E-08	FGHCMFWREC-U	INIT-2PE453A-4	L-HCCSTMU-U	NOATWS
		NOSBO			
422	1.53E-08	INIT-2TB148-7	L-MP141-1DR	L-MP504-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
423	1.53E-08	2G2-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-1DR	U-OOPCLOOP-Z		
424	1.53E-08	ATWS	INIT-3TB148-2	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
425	1.52E-08	INIT-2DG30155-2	L-FLP141-1DC	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06-Z	
426	1.52E-08	INIT-LL	P-C2A0610-N	P-HCSWCKK-LL	P-MP112-M
		P-P113KIRKKEY-K			
427	1.52E-08	INIT-2DG30158-2	L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCSPAREBCV	URECB2A04-Z
428	1.51E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
429	1.51E-08	FGHCMFWREC-U	INIT-2TB30153	L-MPCC0001-S	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
430	1.51E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30158-1	L-HCCSTMU-U
		NOATWS	NOSBO		
431	1.51E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30155-1	L-HCCSTMU-U
		NOATWS	NOSBO		
432	1.51E-08	INIT-2AR37102A	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716-P
		NOATWS	NOSBO		
433	1.50E-08	INIT-SEIS7	L-TP140-1DR	L-TP140NR1DR	
434	1.49E-08	INIT-2AR976	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716-P

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOSBO		
435	1.49E-08	H-MSCC0044-N	H-ZZ18TO17-K	INIT-SL	NOATWS
		RECIRC			
436	1.49E-08	FTR	INIT-TT	L-HCTP140-U	NOATWS
		NOSBO	U-BCCC01-1DR		
437	1.48E-08	E-NCL-A-K	H-ZZ18TO17-K	INIT-SEIS5A	M-CHE-335-M
		M-DUMMY-Z	NOATWS		
438	1.48E-08	H-MVCC0039-P	INIT-ML		
439	1.47E-08	FTR	INIT-PCS	L-TP140-1DR	L-TP140NR1DR
		M-FNE-4301DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
440	1.47E-08	FTR	INIT-PCS	L-TP140-1DR	L-TP140NR1DR
		M-FNA-1651DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
441	1.47E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC0001-S	U-HCG005SEIU
442	1.46E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504-M
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
443	1.46E-08	INIT-3TB148-1	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
444	1.45E-08	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-HCP17STRTU
		H-MP018-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
445	1.44E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3-M			
446	1.44E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3-M			
447	1.43E-08	H-CV002-N	H-HC9300-01U	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
448	1.43E-08	H-CV001-N	H-HC9300-01U	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
449	1.43E-08	INIT-2AC5044	L-C2A0404-N	L-TP140NR-S	NOATWS
		NOSBO			
450	1.43E-08	H-MSCC0001-N	H-ZZ18TO17-K	INIT-SL	NOATWS
		RECIRC			
451	1.42E-08	E-CFCCW-1YR	E-MP024-M	E-MP025-M	E-MP026-1DR
		E-ZZ25TO24-K	FTR	INIT-CCW	Z0
452	1.42E-08	FGHCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-TK121-D
		NOATWS	NOSBO		
453	1.42E-08	FGHCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-TK120-D
		NOATWS	NOSBO		
454	1.42E-08	E-TRAINB-M	H-MV9305-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
455	1.42E-08	E-TRAINB-M	H-MV9303-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
456	1.41E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC0001-S
		L-TP140NR-S	NOATWS	NOSBO	L-HCRECMPCCS
457	1.41E-08	H-MP019-S	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
458	1.40E-08	INIT-LOP	L-MP141-1DR	L-MP504-M	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	U-HCOSPWR60U
		U-OOPCLOOP-Z			

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
459	1.40E-08	INIT-LOP	L-MP141—M	L-MP504—1DR	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	U-HCOSPWR60U
		U-OOPCLOOP-Z			
460	1.39E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30155-1	L-HCCSTMU—U
		NOATWS	NOSBO		
461	1.39E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-1	L-HCCSTMU—U
		NOATWS	NOSBO		
462	1.39E-08	FTR	INIT-CCW	P-TRAINA—M	U-C3B06141DO
		Z0			
463	1.39E-08	FTR	INIT-CCW	P-TRAINA—M	U-C4D203-1DO
		Z0			
464	1.39E-08	FTR	INIT-CCW	NOSBO	P-TRAINA—M
		U-C4D202-1DO	Z0		
465	1.39E-08	FTR	INIT-CCW	NOSBO	P-TRAINA—M
		U-C3BZ03-1DO	Z0		
466	1.39E-08	FTR	INIT-CCW	P-TRAINA—M	U-C3B06011DO
		Z0			
467	1.39E-08	FTR	INIT-CCW	P-TRAINA—M	U-C2A06201DO
		Z0			
468	1.38E-08	INIT-SL	NOATWS	P-HCSWCKK-SL-CCW	P-MP112—M
		P-MP113—S	P-P113KIRKKEY-K		
469	1.38E-08	2G2-FAILS	H-ZZ18TO17-K	INIT-SEIS5	M-CHE-335—M
		M-DUMMY—Z	NOATWS	NOLOP	U-DG2G2—1DR
470	1.38E-08	INIT-2AC5040-2	L-HAXV533—X	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
471	1.38E-08	INIT-2AC5035-2	L-HAXV127—X	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
472	1.37E-08	INIT-2AR2494	L-CVCC0001-P	NOATWS	NOSBO
473	1.37E-08	INIT-2AC5044	L-MP141—1DR	L-TP140—M	NOATWS
		NOSBO			
474	1.37E-08	FGHCMFWREC-U	INIT-2AC5035-1	L-HCCSTMU—U	NOATWS
		NOSBO			
475	1.37E-08	FGHCMFWREC-U	INIT-2AC5040-1	L-HCCSTMU—U	NOATWS
		NOSBO			
476	1.37E-08	FGHCMFWREC-U	INIT-2AC8570-1	L-HCCSTMU—U	NOATWS
		NOSBO			
477	1.37E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140—1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-DGCC0001-S			
478	1.36E-08	INIT-2TB148-7	L-MP141—M	L-MP504—1DR	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	
479	1.36E-08	INIT-2TB148-7	L-MP141—1DR	L-MP504—M	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	
480	1.36E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140—M
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
481	1.36E-08	H-MVCC0039-P	INIT-LL		
482	1.35E-08	INIT-3PE453A-3	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
483	1.35E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-C2CC0001-N
		L-TP140—1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECC2CCN			
484	1.35E-08	INIT-LOP	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716—P
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCR			
485	1.35E-08	INIT-2AC3020A-8	L-HCCSTMU—U	NOATWS	NOSBO

Safety Monitor 5.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
486	1.35E-08	INIT-2DG30158-2	L-MP504—M	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCSPAREBCV	URECB2A04—Z
487	1.35E-08	INIT-2AR50111	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
488	1.34E-08	H-C2A0608—N	H-TRAINA—M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
489	1.34E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504—M
		L-TP140—1DR	L-TP140NR1DR	NOATWS	NOSBO
490	1.34E-08	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2—S	U-OOPCLOOP-Z		
491	1.33E-08	INIT-2AC5044	L-MP141—1DR	L-MV4716—M	NOATWS
		NOSBO			
492	1.32E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-MV4716—M
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
493	1.32E-08	INIT-LOP	L-HCCSTMU—U	NOATWS	NOSBO
		U-HCOSPWR60U	U-HCOSPWRH1U	U-OOGWLOOP-Z	
494	1.32E-08	H-HCP17STRTU	H-MPCC04-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
495	1.32E-08	E-HCSWINGB-Z	E-MP026—1DR	E-ZZ25TO24-K	FTR
		INIT-SL	NOATWS	P-TRAINA—M	
496	1.31E-08	INIT-2AC3020A-1	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141—1DR
		NOATWS	NOSBO		
497	1.31E-08	INIT-2TB148-6	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
498	1.30E-08	INIT-3TB148-2	L-TP140—M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
499	1.30E-08	INIT-2DG30155-2	L-HAXV127—X	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06—Z	
500	1.30E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MPCC0001-S
		L-TP140NR—S	NOATWS	NOSBO	L-HCRECMPPCS
501	1.30E-08	INIT-2PE92A	L-CVCC0001-P	NOATWS	NOSBO
502	1.28E-08	2G3-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G3—M	U-OOPCLOOP-Z		
503	1.28E-08	2G2-FAILS	INIT-2AC5035-2	L-HCHV4716PU	L-MV4716—P
		NOATWS	NOLOP	NOSBO	U-C2A0418—P
504	1.28E-08	2G3-FAILS	INIT-2AC5040-2	L-HCHV4716PU	L-MV4716—P
		NOATWS	NOLOP	NOSBO	U-C2A0618—P
505	1.28E-08	DLMPSEAL-4HD	E-CFCCW—1YR	E-HCSWINGB-Z	E-MP026—1DR
		E-ZZ25TO24-K	FTR	INIT-CCW	P-MP112—M
		P-MP307—M			
506	1.27E-08	INIT-3TB148-2	L-MV4716—M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
507	1.27E-08	INIT-2AC8570-4	L-HCCSTMU—U	NOATWS	NOSBO
508	1.26E-08	INIT-2PE453A-3	L-C2A0603—N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
509	1.26E-08	INIT-3AC5034	L-TP140—1DR	L-TP140NR1DR	M-CHE-336—M
		M-HCVENT—EE	NOATWS	NOSBO	
510	1.26E-08	INIT-3AC5060	L-TP140—1DR	L-TP140NR1DR	M-CHE-335—M
		M-HCVENT—EE	NOATWS	NOSBO	
511	1.25E-08	INIT-2AC5040-2	L-HCTP140—U	L-MPCC01-1DR	NOATWS

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOSBO			
512	1.25E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-C2CC0001-N
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
		L-HCRECC2CCN			
513	1.25E-08	INIT-2AC5040-2	L-HCOVRSP-V	L-MP504-1DR	L-TP140RR-S
		NOATWS	NOSBO		
514	1.25E-08	INIT-2AC5035-2	L-HCOVRSP-V	L-MP141-1DR	L-TP140RR-S
		NOATWS	NOSBO		
515	1.24E-08	INIT-2TB148-7	L-MPCC0001-S	L-TP140-M	NOATWS
		NOSBO			
516	1.23E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2YD30200-3	L-HCCSTMU-U
		NOATWS	NOSBO		
517	1.23E-08	INIT-2AC5035-2	L-MP141-1DR	L-SV4700-J	NOATWS
		NOSBO			
518	1.23E-08	INIT-2AC5040-2	L-MP504-1DR	L-SV4700-J	NOATWS
		NOSBO			
519	1.23E-08	INIT-TT	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCOSPWR60U	U-ZZCNDLP-Z		
520	1.22E-08	E-MP025-M	E-MPCC03-1DR	E-ZZ25TO24-K	FTR
		INIT-CCW	Z0		
521	1.22E-08	INIT-2AR37102A	L-CVCC0002-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
522	1.21E-08	INIT-LDC2	L-HCMP504C4V	L-MP141-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
523	1.21E-08	INIT-LDC1	L-HCMP141C4V	L-MP504-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
524	1.21E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-ML	P-TRAINA-M
525	1.21E-08	INIT-2AR976	L-CVCC0002-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
526	1.20E-08	E-TRAINA-M	FTR	INIT-CCW	NOSBO
		U-BCB2-1DR	Z0		
527	1.20E-08	INIT-2TB148-7	L-MPCC0001-S	L-MV4716-M	NOATWS
		NOSBO			
528	1.20E-08	E-CFCCW-1YR	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K
		FTR	INIT-CCW	P-HCSWCKK-SL-CCW	P-MP112-M
		Z0			
529	1.20E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-CVCC0002-N
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
530	1.18E-08	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-N	
531	1.18E-08	INIT-2AR37102A	L-C2CC0001-N	L-TP140NR-S	NOATWS
		NOSBO			
532	1.18E-08	INIT-2DG30155-2	L-HCOVRSP-V	L-MP141-1DR	L-TP140RR-S
		NOATWS	NOSBO	URECB2A06-Z	
533	1.18E-08	INIT-2AR37102A	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
534	1.17E-08	2G2-FAILS	2G3-FAILS	INIT-3PE453A-2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCG005FIRU
		U-OOPCLOOP-Z			
535	1.17E-08	2G2-FAILS	2G3-FAILS	INIT-2AC3020A-1	L-HCAFWPC-FU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
536	1.17E-08	INIT-2AR976	L-C2CC0001-N	L-TP140NR-S	NOATWS
		NOSBO			
537	1.17E-08	INIT-SGR	NOATWS	SDC30-3	T-HCDEPRESEU

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
538	1.17E-08	INIT-2AR976	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
539	1.17E-08	INIT-SL	NOATWS	P-MP112-M	P-MPCC0011-S
540	1.17E-08	2G2-FAILS	INIT-LOP	L-HCTP140-U	L-MP504-1DR
		NO-RECOVER	NOATWS	NOSBO	U-C2A0418-P
		U-HCOSPWR60U	U-OOPCLOOP-Z		
541	1.16E-08	INIT-2AC3020A-1	L-HCAFWPA-FU	L-HCAFWPB-FU	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
542	1.16E-08	INIT-2AC3020A-1	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141-M
		NOATWS	NOSBO		
543	1.16E-08	INIT-2DG30155-2	L-MP141-1DR	L-SV4700-J	NOATWS
		NOSBO	URECB2A06-Z		
544	1.16E-08	FTR	INIT-CCW	NOSBO	P-MP112-M
		P-MP307-M	U-BCB2-1DR	Z0	
545	1.16E-08	INIT-SLB	NOATWS	T-HV8204-N	T-HV8205-N
		T-OOE-088-Z	TDS30-1COMPLEMNT		
546	1.16E-08	INIT-SLB	NOATWS	T-HV8204-N	T-HV8205-N
		T-OOE-089-Z	TDS30-1COMPLEMNT		
547	1.16E-08	INIT-SL	NOATWS	P-C2CC0011-N	P-MP112-M
548	1.15E-08	H-MVCC0046-P	INIT-ML	RECIRC	
549	1.14E-08	INIT-2TB148-5	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
550	1.14E-08	H-HASMLPT-X	INIT-LOP	NOATWS	NOSBO
		RECIRC	U-HCOSPWR60U	U-OOPCLOOP-Z	Y-OORV-DEM-Z
		Y-RV0201-N	MULTIPLYBY2P7		
551	1.14E-08	H-HASMLPT-X	INIT-LOP	NOATWS	NOSBO
		RECIRC	U-HCOSPWR60U	U-OOPCLOOP-Z	Y-OORV-DEM-Z
		Y-RV0200-N	MULTIPLYBY2P7		
552	1.14E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2YD30200-3	L-HCCSTMU-U
		NOATWS	NOSBO		
553	1.13E-08	INIT-2AC3027	L-HCCSTMU-U	NOATWS	NOSBO
554	1.13E-08	H-MVCC0044-P	INIT-SL	NOATWS	RECIRC
555	1.13E-08	H-MVCC0042-P	INIT-SL	NOATWS	RECIRC
556	1.13E-08	H-MVCC0043-P	INIT-SL	NOATWS	RECIRC
557	1.13E-08	H-MVCC0045-P	INIT-SL	NOATWS	RECIRC
558	1.13E-08	FTR	INIT-CCW	P-TRAINA-M	U-T26X-1DR
		Z0			
559	1.12E-08	FTR	INIT-TT	L-HCNSBOMANU	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-HCSPAREBCV	
560	1.12E-08	FTR	INIT-TT	L-HCNSBOMANU	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO	U-HCSPAREBCV	
561	1.11E-08	INIT-2AC5044	L-CV121-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
562	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NCHCCSINJCTU	NOATWS	
563	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NCHCCSINJCTU	NOATWS	RECIRC
564	1.11E-08	INIT-2AC5043	L-HCCSTMU-U	NOATWS	NOSBO
565	1.11E-08	INIT-2AR2494	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
566	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-LL	P-TRAINA-M
567	1.11E-08	INIT-2AC5040-2	L-HCOVRSP-V	L-MP504-M	L-TP140RR-S
		NOATWS	NOSBO		

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Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
568	1.11E-08	INIT-2AC5035-2	L-HCOVRSP-V	L-MP141-M	L-TP140RR-S
		NOATWS	NOSBO		
569	1.11E-08	2G2-FAILS	E-MP026-M	E-ZZ25TO24-K	INIT-SEIS5
		NOATWS	NOLOP	U-DG2G2-1DR	
570	1.11E-08	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-CVCC0002-N
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
571	1.11E-08	H-MP019-1DR	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-HCSWCKK-SL-CCW	P-MP112-M	
572	1.10E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NOATWS	RECIRC	
573	1.10E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NOATWS	RECIRC	
574	1.10E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NOATWS	RECIRC	
575	1.10E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NOATWS	RECIRC	
576	1.10E-08	H-MV9303-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NOATWS	RECIRC	
577	1.10E-08	H-MV9305-P	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NOATWS	RECIRC	
578	1.10E-08	FGHCMFWREC-U	INIT-2PE633B-4	L-HCCSTMU-U	NOATWS
		NOSBO			
579	1.09E-08	INIT-2AC5035-2	L-MP141-M	L-SV4700-J	NOATWS
		NOSBO			
580	1.09E-08	INIT-2AC5040-2	L-MP504-M	L-SV4700-J	NOATWS
		NOSBO			
581	1.09E-08	INIT-2AC5044	L-MP141-S	L-TP140NR-S	NOATWS
		NOSBO			
582	1.09E-08	INIT-SL	L-CVCC0002-P	NOATWS	
583	1.09E-08	ATWS	INIT-2AR2494	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
584	1.09E-08	H-MV9302-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HCSWCKK-SL-CCW	P-MP112-M	RECIRC	
585	1.09E-08	H-MV9304-P	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-HCSWCKK-SL-CCW	P-MP112-M	RECIRC	
586	1.09E-08	2G2-FAILS	2G3-FAILS	INIT-3PE453A-2	L-TP140-1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-DGCC01-1DR	U-OOPCLOOP-Z		
587	1.09E-08	INIT-2AR37102A	L-MPCC01-1DR	L-TP140-M	NOATWS
		NOSBO			
588	1.09E-08	H-ZZ18TO17-K	INIT-PCS	K-HCRAS-U	K-OORAS-CC-Z
		NOATWS	RECIRC	Y-OORV-DEM-Z	Y-RV0201-N
589	1.09E-08	H-ZZ18TO17-K	INIT-PCS	K-HCRAS-U	K-OORAS-CC-Z
		NOATWS	RECIRC	Y-OORV-DEM-Z	Y-RV0200-N
590	1.09E-08	2G3-FAILS	INIT-2AC5040-2	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOLOP	NOSBO	U-BY008-S
591	1.09E-08	2G2-FAILS	INIT-2AC5035-2	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOLOP	NOSBO	U-BY007-S
592	1.08E-08	INIT-2SE30145A	L-C2A0603-N	L-MP141-1DR	NOATWS
		NOSBO			
593	1.08E-08	INIT-2SE30145A	L-C2A0404-N	L-MP504-1DR	NOATWS
		NOSBO			
594	1.08E-08	INIT-2AR976	L-MPCC01-1DR	L-TP140-M	NOATWS
		NOSBO			
595	1.08E-08	INIT-LDC2	L-HCMP504C4V	L-MP141-M	L-TP140-1DR

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Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		L-TP140NR1DR	NOATWS	NOSBO	
596	1.08E-08	INIT-LDC1	L-HCMP141C4V	L-MP504—M	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	
597	1.07E-08	FGHCMFWREC-U	INIT-2AC3020C	L-HCCSTMU—U	NOATWS
		NOSBO			
598	1.07E-08	INIT-2AC5040-2	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
599	1.07E-08	INIT-2AC8571-1	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
600	1.07E-08	INIT-2AC5035-2	L-HCTP140—U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
601	1.07E-08	INIT-2AC5044	L-FLP141-1DC	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
602	1.07E-08	H-HCP17STRTU	H-MP018—1DR	H-TRAINB—M	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	
603	1.07E-08	E-TRAINA—M	H-MP019—S	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
604	1.07E-08	INIT-2AC5047	L-MP504—1DR	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCSPAREBCV	
605	1.07E-08	INIT-2PE633B-2	L-CVCC0001-P	NOATWS	NOSBO
606	1.07E-08	INIT-3PE633B-2	L-CVCC0001-P	NOATWS	NOSBO
607	1.06E-08	INIT-2AR37102A	L-MPCC01-1DR	L-MV4716—M	NOATWS
		NOSBO			
608	1.06E-08	INIT-2TB148-7	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
609	1.06E-08	INIT-2AR37102A	L-MP141—1DR	L-MP504—1DR	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	
610	1.05E-08	H-MSBJ34—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA—M	RECIRC		
611	1.05E-08	H-MSBJ33—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINA—M	RECIRC		
612	1.05E-08	H-MSBE35—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB—M	RECIRC		
613	1.05E-08	H-MSBY28—N	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-TRAINB—M	RECIRC		
614	1.05E-08	H-TK005—1DD	H-ZZ18TO17-K	INIT-SGR	INJECT
		LOCA	NOATWS		
615	1.05E-08	H-MVCC0046-P	INIT-LL	RECIRC	
616	1.05E-08	H-TK006—1DD	H-ZZ18TO17-K	INIT-SGR	INJECT
		LOCA	NOATWS		
617	1.05E-08	INIT-2DG30155-2	L-TP140NR—S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
618	1.05E-08	INIT-2DG30158-2	L-TP140NR—S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
619	1.05E-08	INIT-2AR976	L-MPCC01-1DR	L-MV4716—M	NOATWS
		NOSBO			
620	1.05E-08	A-C2A0607—N	INIT-LL	P-HCSWCKK-LL	P-MP112—M
621	1.05E-08	INIT-2PE92A	L-MPCC01-1DR	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
622	1.05E-08	INIT-2AR976	L-MP141—1DR	L-MP504—1DR	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	
623	1.05E-08	INIT-2DG30155-2	L-HCOVRSP—V	L-MP141—M	L-TP140RR—S

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOSBO	URECB2A06-Z	
624	1.04E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MP141-1DR
		L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR	NOATWS
		NOSBO			
625	1.04E-08	2G2-FAILS	INIT-LOP	L-HCTP140-U	L-MP504-M
		NO-RECOVER	NOATWS	NOSBO	U-C2A0418-P
		U-HCOSPWR60U	U-OOPCLOOP-Z		
626	1.03E-08	INIT-2DG30155-2	L-MP141-M	L-SV4700-J	NOATWS
		NOSBO	URECB2A06-Z		
627	1.03E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-C2A0404-N
		L-TP140NR1DR	NOATWS	NOSBO	
628	1.03E-08	FGHCMFWREC-U	INIT-2TB30153	L-CVCC0002-P	NOATWS
		NOSBO			
629	1.03E-08	2G2-FAILS	2G3-FAILS	INIT-2PE633B-3	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
630	1.03E-08	2G2-FAILS	2G3-FAILS	INIT-3PE633B-3	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
631	1.02E-08	F-HCDEPRESSU	FGHCMFWREC-U	INIT-3TB148-2	L-CVCC0001-P
		NOATWS	NOSBO		
632	1.02E-08	E-TRAINA-M	H-C2A0608-N	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS		
633	1.02E-08	H-HASMP1T-X	INIT-SEIS5	NOATWS	RECIRC
634	1.01E-08	ATWS	D-HCBORATE-U	INIT-TT	K-OOMECHSCRM
		Z126-1			
635	1.01E-08	H-MP019-1DR	H-MV9303-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
636	1.01E-08	H-MP019-1DR	H-MV9305-M	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
637	1.00E-08	INIT-2AR63116-2	L-CVCC0001-P	NOATWS	NOSBO
638	1.00E-08	INIT-2PE182B	L-HCCSTMU-U	NOATWS	NOSBO
639	1.00E-08	FTR	INIT-CCW	P-TRAINA-M	U-B4D2P1-1DR
		Z0			
640	1.00E-08	FTR	INIT-CCW	P-TRAINA-M	U-B4D2-1DR
		Z0			
641	9.96E-09	INIT-2TB148-5	L-CVCC0001-P	NOATWS	NOSBO
642	9.93E-09	H-MV9304-P	H-MV9305-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
643	9.93E-09	H-MV9303-M	H-MV9304-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
644	9.93E-09	H-MV9302-P	H-MV9305-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
645	9.93E-09	H-MV9302-P	H-MV9303-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
646	9.93E-09	H-MV9303-P	H-MV9304-M	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
647	9.93E-09	H-MV9302-M	H-MV9305-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
648	9.93E-09	H-MV9302-M	H-MV9303-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
649	9.93E-09	H-MV9304-M	H-MV9305-P	H-ZZ18TO17-K	INIT-SL
		NOATWS	RECIRC		
650	9.90E-09	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-TP140-1DR	L-TP140NR1DR	NO-RECOVER	NOATWS
		NOSBO	U-DG2G2-1DR	U-OOPCLOOP-Z	
651	9.88E-09	H-CVCC0022-P	INIT-SL	NOATWS	

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Number	Probability	Event	Event	Event	Event
652	9.84E-09	H-C2A0608-N	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-MP112-M	P-MP307-M	
653	9.84E-09	INIT-2AC3020A-A	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
654	9.84E-09	H-HASMPLT-X	INIT-3TB148-2	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200-N		
655	9.84E-09	H-HASMPLT-X	INIT-3TB148-2	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201-N		
656	9.83E-09	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0200-P
		Z126-1			
657	9.83E-09	ATWS	INIT-TT	K-OOMECHSCRM	Y-RV0201-P
		Z126-1			
658	9.79E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1-Z	L-HCHV4716PU	L-MV4716-P	NOATWS
		NOLOP	NOSBO		
659	9.79E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2-Z	L-HCHV4716PU	L-MV4716-P	NOATWS
		NOLOP	NOSBO		
660	9.77E-09	INIT-LL	P-AV6201-P	P-HCSWCKK-LL	P-MP112-M
		P-P113KIRKKEY-K			
661	9.76E-09	INIT-LOP	L-MPCC01-1DR	L-TP140-M	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCR
662	9.75E-09	INIT-2AC5040-2	L-HCTP140-U	L-MPCC0001-S	NOATWS
		NOSBO			
663	9.72E-09	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-MSBY28-N
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
664	9.72E-09	E-HCSWINGB-Z	E-MP026-M	E-ZZ25TO24-K	H-MSBE35-N
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
665	9.72E-09	INIT-2AC5040-2	L-MP504-1DR	L-MV4706-M	NOATWS
		NOSBO			
666	9.63E-09	INIT-2SE30145A	L-C2A0404-N	L-MP504-M	NOATWS
		NOSBO			
667	9.63E-09	INIT-2SE30145A	L-C2A0603-N	L-MP141-M	NOATWS
		NOSBO			
668	9.61E-09	INIT-2PE453A-3	L-MP504-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
669	9.61E-09	E-HCP026-U	E-HCSWINGB-Z	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-MP112-M	P-MP307-M	
670	9.61E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-PCS	L-MP141-1DR
		L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR	NOATWS
		NOSBO			
671	9.58E-09	H-CVCC0038-P	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS			
672	9.56E-09	INIT-2TB148-7	L-HCOVRSP-V	L-MPCC01-1DR	L-TP140RR-S
		NOATWS	NOSBO		
673	9.53E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-C2A0404-N
		L-TP140NR1DR	NOATWS	NOSBO	
674	9.50E-09	INIT-LOP	L-MPCC01-1DR	L-MV4716-M	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCR
675	9.49E-09	INIT-2AC5047	L-MP504-M	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCSPAREBCV	
676	9.44E-09	H-MPCC01-1DR	INIT-ML		
677	9.43E-09	INIT-2TB148-7	L-MPCC01-1DR	L-SV4700-J	NOATWS
		NOSBO			

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
678	9.43E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-3TB148-2	L-CVCC0001-P
		NOATWS	NOSBO		
679	9.41E-09	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-1DR	U-OOGWLOOP-Z		
680	9.39E-09	INIT-LOP	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOGWLOOP-Z
		L-HCRECMPCCR			
681	9.38E-09	INIT-2AR37102A	L-MP141-1DR	L-MP504-M	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
682	9.38E-09	INIT-2AR37102A	L-MP141-M	L-MP504-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
683	9.34E-09	INIT-2AC5035-2	L-CVCC0001-P	NOATWS	NOSBO
684	9.34E-09	INIT-2AC5040-2	L-CVCC0001-P	NOATWS	NOSBO
685	9.32E-09	H-MP019-S	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M			
686	9.30E-09	INIT-2AR976	L-MP141-M	L-MP504-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
687	9.30E-09	INIT-2AR976	L-MP141-1DR	L-MP504-M	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
688	9.29E-09	INIT-2TB148-6	L-HCHV4716PU	L-MV4716-P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
689	9.25E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MP141-1DR
		L-MP504-M	L-TP140-1DR	L-TP140NR1DR	NOATWS
		NOSBO			
690	9.25E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MP141-M
		L-MP504-1DR	L-TP140-1DR	L-TP140NR1DR	NOATWS
		NOSBO			
691	9.24E-09	2G2-FAILS	INIT-2AC5035-2	L-TP140-M	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
692	9.24E-09	2G3-FAILS	INIT-2AC5040-2	L-TP140-M	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
693	9.23E-09	H-HARFCNL-X	INIT-ML	RECIRC	
694	9.22E-09	F-HCDEPRESSU	INIT-2AC3020A-A	L-CVCC0001-P	NOATWS
		NOSBO			
695	9.20E-09	INIT-2AR50111	L-CVCC0002-P	NOATWS	NOSBO
696	9.14E-09	INIT-2AC5044	L-HAXV127-X	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
697	9.07E-09	E-CV103-N	E-HCSWINGB-Z	E-TRINA-M	E-ZZ25TO24-K
		INIT-SL	NOATWS		
698	9.07E-09	INIT-SEIS2	L-TK120-D	NOATWS	NOSBO
699	9.07E-09	INIT-2AC916-3	L-TK120-D	NOATWS	NOSBO
700	9.07E-09	INIT-2AC916-3	L-TK121-D	NOATWS	NOSBO
701	9.07E-09	INIT-SEIS2	L-TK121-D	NOATWS	NOSBO
702	9.06E-09	INIT-3PE633B-3	L-HCCSTMU-U	NOATWS	NOSBO
703	9.06E-09	INIT-2PE633B-3	L-HCCSTMU-U	NOATWS	NOSBO
704	8.99E-09	2G2-FAILS	INIT-2AC5035-2	L-MV4716-M	NOATWS
		NOLOP	NOSBO	U-C2A0418-P	
705	8.99E-09	2G3-FAILS	INIT-2AC5040-2	L-MV4716-M	NOATWS
		NOLOP	NOSBO	U-C2A0618-P	
706	8.99E-09	INIT-2SE30145A	L-CVCC0001-P	NOATWS	NOSBO
707	8.99E-09	FTR	INIT-TT	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO	U-BCCC01-1DR	
708	8.98E-09	INIT-2YD30200-3	L-HCNBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCSPAREBCV	MULTIPLYBYP4		
709	8.92E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-HCHV4716PU
		L-MPCC01-1DR	L-MV4716-P	NOATWS	NOSBO
		L-HCRECMPCCR			
710	8.91E-09	INIT-2AC5035-2	L-C2A0404-N	L-HCHV4716PU	L-MV4716-P
		NOATWS	NOSBO		
711	8.91E-09	INIT-2AC5040-2	L-C2A0603-N	L-HCHV4716PU	L-MV4716-P
		NOATWS	NOSBO		
712	8.91E-09	H-C2A0608-N	H-ZZ18TO17-K	INIT-LL	P-HCSWCKK-LL
		P-MP112-M			
713	8.90E-09	H-ZZ18TO17-K	INIT-2AC5040-2	M-CHE-335-M	M-DUMMY-Z
		NOATWS	Y-OORV-DEM-Z	Y-RV0201-N	
714	8.90E-09	H-ZZ18TO17-K	INIT-2AC5040-2	M-CHE-335-M	M-DUMMY-Z
		NOATWS	Y-OORV-DEM-Z	Y-RV0200-N	
715	8.84E-09	INIT-SL	L-MPCC01-1DR	L-TP140NR-S	NOATWS
716	8.82E-09	INIT-LOP	L-C2CC0001-N	L-TP140NR-S	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECC2CCN
717	8.82E-09	ATWS	INIT-PCS	K-OOMECHSCRM	KTT30-3
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
718	8.82E-09	ATWS	D-HCBORATE-U	INIT-PCS	K-OOMECHSCRM
		Z126-1COMPLEMENT	Z250-2COMPLEMENT		
719	8.81E-09	INIT-2DG30155-2	L-CVCC0001-P	NOATWS	NOSBO
		URECB2A06-Z			
720	8.80E-09	INIT-3TB148-1	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
721	8.79E-09	INIT-LOP	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
		L-HCRECMPCCS			
722	8.78E-09	ATWS	INIT-TT	K-HCEFAS-U	K-OODEFASCCZ
		K-OOMECHSCRM	Z126-1COMPLEMENT	Z250-2COMPLEMENT	
723	8.77E-09	INIT-2AC5040-2	L-HCNSBOMANU	L-HCTP140-U	L-HV4714-P
		NOATWS	NOSBO		
724	8.77E-09	INIT-2AC5040-2	L-HCNSBOMANU	L-HCTP140-U	L-SV4714-J
		NOATWS	NOSBO		
725	8.76E-09	INIT-2AC916-3	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716-P
		NOATWS	NOSBO		
726	8.76E-09	INIT-SEIS2	L-HCHV4716PU	L-MPCC01-1DR	L-MV4716-P
		NOATWS	NOSBO		
727	8.74E-09	E-CV103-N	E-HCSWINGB-Z	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-MP112-M	P-MP307-M	
728	8.72E-09	E-C2A0605-N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9305-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
729	8.72E-09	E-C2A0605-N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9303-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
730	8.68E-09	INIT-2AR2494	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
731	8.64E-09	H-MPCC01-1DR	INIT-LL		
732	8.64E-09	INIT-2AC5040-2	L-MP504-M	L-MV4706-M	NOATWS
		NOSBO			
733	8.62E-09	INIT-2PE633B-2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
734	8.62E-09	INIT-3PE633B-2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
735	8.60E-09	INIT-2AC5040-2 NOSBO	L-MP504-1DR	L-MV4706-P	NOATWS
736	8.60E-09	INIT-2AC5040-2 NOSBO	L-MP504-1DR	L-MV4715-P	NOATWS
737	8.60E-09	INIT-3PE633B-4 NOATWS	L-HCTP140-U NOLOCA	M-HCBCBFAILU NOLOP	M-HCNOSIAS-U NOSBO
738	8.59E-09	ATWS Z126-1COMPLEMENT	INIT-PCS Z250-2COMPLEMENT	K-OOMECHSCRM	Y-RV0201-P
739	8.59E-09	ATWS Z126-1COMPLEMENT	INIT-PCS Z250-2COMPLEMENT	K-OOMECHSCRM	Y-RV0200-P
740	8.54E-09	FGHCCNDREC-U L-MP504-M NOSBO	FGHCMFWREC-U L-TP140-1DR	INIT-PCS L-TP140NR1DR	L-MP141-1DR NOATWS
741	8.54E-09	FGHCCNDREC-U L-MP504-1DR NOSBO	FGHCMFWREC-U L-TP140-1DR	INIT-PCS L-TP140NR1DR	L-MP141-M NOATWS
742	8.53E-09	2G2-FAILS NOLOP	E-NCL-B-K U-DG2G2-M	INIT-SEIS5A	NOATWS
743	8.53E-09	2G3-FAILS NOLOP	E-NCL-A-K U-DG2G3-M	INIT-SEIS5A	NOATWS
744	8.51E-09	FGHCCNDREC-U NOSBO	INIT-2AC3020A-A	L-CVCC0001-P	NOATWS
745	8.51E-09	INIT-2AR37102A NOSBO	L-MPCC0001-S	L-TP140-M	NOATWS
746	8.47E-09	INIT-2AC3020A-6 NOATWS	L-HCAFWPB-FU NOSBO	L-HCAFWPC-FU	L-MP141-1DR
747	8.45E-09	H-HARFCNL-X	INIT-LL	RECIRC	
748	8.43E-09	INIT-2AR976 NOSBO	L-MPCC0001-S	L-TP140-M	NOATWS
749	8.41E-09	INIT-2DG30155-2 NOATWS	L-C2A0404-N NOSBO	L-HCHV4716PU URECB2A06-Z	L-MV4716-P
750	8.39E-09	F-HCDEPRESSU NOATWS	FGHCMFWREC-U NOSBO	INIT-2DG30155-2	L-HCCSTMU-U
751	8.39E-09	F-HCDEPRESSU NOATWS	FGHCMFWREC-U NOSBO	INIT-2DG30158-2	L-HCCSTMU-U
752	8.35E-09	INIT-LOP U-HCOSPWR60U	L-CVCC0002-P U-OOGWLOOP-Z	NOATWS	NOSBO
753	8.33E-09	FGHCMFWREC-U NOATWS	INIT-2TB30153 NOSBO	L-MPCC01-1DR	L-TP140NR-S
754	8.28E-09	INIT-2SE30145A NOSBO	L-MP141-1DR	L-MP504-S	NOATWS
755	8.28E-09	INIT-2SE30145A NOSBO	L-MP141-S	L-MP504-1DR	NOATWS
756	8.28E-09	INIT-2AC5044 NOATWS	L-HCOVRSP-V NOSBO	L-MP141-1DR	L-TP140RR-S
757	8.28E-09	INIT-2AR37102A NOSBO	L-MPCC0001-S	L-MV4716-M	NOATWS
758	8.26E-09	F-HCDEPRESSU L-TP140-1DR	FGHCMFWREC-U L-TP140NR1DR	INIT-3TB148-2 NOATWS	L-MPCC01-1DR NOSBO
759	8.24E-09	H-MP019-1DR	H-TRAINA-M	H-ZZ18TO17-K	INIT-ML
760	8.23E-09	FGHCCNDREC-U L-MPCC01-1DR L-HCRECMPCCR	FGHCMFWREC-U L-MV4716-P	INIT-PCS NOATWS	L-HCHV4716PU NOSBO
761	8.23E-09	A-CV073-3MD	H-CV029-1YD	H-PT1B-3MI	INIT-ISLOCA
762	8.23E-09	A-CV072-3MD	H-CV027-1YD	H-PT1A-3MI	INIT-ISLOCA

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
763	8.23E-09	A-CV074-3MD	H-CV031-1YD	H-PT2A-3MI	INIT-ISLOCA
764	8.23E-09	A-CV075-3MD	H-CV033-1YD	H-PT2B-3MI	INIT-ISLOCA
765	8.21E-09	2G2-FAILS	2G3-FAILS	INIT-LOP	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-N	U-HCOSPWR60U
		U-HCOSPWR6HU	U-OOPCLOOP-Z		
766	8.21E-09	INIT-2AR976	L-MPCC0001-S	L-MV4716-M	NOATWS
		NOSBO			
767	8.20E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCOVRSP-V
		L-TP140RR-S	NO-RECOVER	NOATWS	U-DGCC01-1DR
768	8.19E-09	INIT-3PE453A-3	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
769	8.19E-09	INIT-2DG30158-2	L-HCTP140-U	M-CHE-335-M	M-HCVENT-EE
		NOATWS	NOSBO	URECB2A04-Z	
770	8.19E-09	INIT-2DG30155-2	L-HCTP140-U	M-CHE-336-M	M-HCVENT-EE
		NOATWS	NOSBO	URECB2A06-Z	
771	8.18E-09	INIT-2PE92A	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
772	8.17E-09	INIT-2AC5044	L-MP141-1DR	L-SV4700-J	NOATWS
		NOSBO			
773	8.14E-09	INIT-TT	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-HCOSPWR60U	U-ZZCNDLP-Z		
774	8.13E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	LXOP3-SUCCESS
		NO-RECOVER	NOATWS	U-C2CC0001-P	U-HCG005SEIU
775	8.13E-09	E-TRAINB-M	H-HCP17STRTU	H-MP018-1DR	H-ZZ18TO17-K
		INIT-SL	NCHCCSINJCTU	NOATWS	
776	8.12E-09	INIT-2AR63116-2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
777	8.10E-09	INIT-2AC8571-4	L-HCCSTMU-U	NOATWS	NOSBO
778	8.10E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-SV4700-J
		NO-RECOVER	NOATWS	U-DGCC01-1DR	
779	8.09E-09	E-HCSWINGB-Z	E-MP026-S	E-ZZ25TO24-K	INIT-SL
		NOATWS	P-MP112-M	P-MP307-M	
780	8.07E-09	INIT-2PE453A-2	L-CVCC0001-P	NOATWS	NOSBO
781	8.05E-09	INIT-2TB148-5	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
782	7.98E-09	ATWS	INIT-2AR63116-2	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2COMPLEMENT			
783	7.98E-09	INIT-2PE453A-3	L-HCCSTMU-U	NOATWS	NOSBO
784	7.98E-09	FTR	INIT-TT	L-HCHV4716PU	L-MV4716-P
		M-FNE-4301DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
785	7.98E-09	FTR	INIT-TT	L-HCHV4716PU	L-MV4716-P
		M-FNA-1651DR	M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS
		NOLOCA	NOLOP	NOSBO	
786	7.93E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DG2G2-1DR	U-DG2G3-M	
787	7.93E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DG2G2-M	U-DG2G3-1DR	
788	7.89E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141-S
		L-TP140NR1DR	NOATWS	NOSBO	
789	7.89E-09	ATWS	INIT-2TB148-6	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
790	7.86E-09	INIT-3TB148-2	L-HCOVRSP-V	L-TP140RR-S	M-HCBCBFAILU

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
791	7.83E-09	FTR	INIT-TT	L-MP141-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	U-BCB2-1DR
792	7.83E-09	H-HCP17STRTU	H-MP018-1DR	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	P-MP113-M	P-MP114-M
793	7.83E-09	INIT-LOP	L-CVCC0002-N	L-TP140NR-S	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	
794	7.83E-09	INIT-2DG30158-2	L-C2A0603-N	L-HCTP140-U	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04-Z	
795	7.78E-09	H-TK006-1DD	H-ZZ18TO17-K	INIT-SL	INJECT
		LOCA	NOATWS		
796	7.78E-09	H-TK005-1DD	H-ZZ18TO17-K	INIT-SL	INJECT
		LOCA	NOATWS		
797	7.76E-09	INIT-3TB148-2	L-SV4700-J	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
798	7.75E-09	FTR	INIT-LL	P-HCSWCKK-LL	P-MP112-M
		P-MP113-1DR	P-P113KIRKKEY-K		
799	7.74E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-2	L-HCCSTMU-U
		NOATWS	NOSBO		
800	7.74E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30155-2	L-HCCSTMU-U
		NOATWS	NOSBO		
801	7.69E-09	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP112-M	P-MP113-1DR	P-P113KIRKKEY-K	Y1
802	7.65E-09	INIT-2AC5040-2	L-MP504-M	L-MV4706-P	NOATWS
		NOSBO			
803	7.65E-09	INIT-2AC5040-2	L-MP504-M	L-MV4715-P	NOATWS
		NOSBO			
804	7.63E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-3TB148-2	L-MPCC01-1DR
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
805	7.61E-09	INIT-2TB148-7	L-CVCC0002-N	L-TP140NR-S	NOATWS
		NOSBO			
806	7.59E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS5	NOATWS
		NOLOP	U-DGCC01-1DR		
807	7.55E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140-1DR
		L-TP140NR1DR	LXOP3-SUCCESS	NO-RECOVER	NOATWS
		U-C2CC0001-P			
808	7.55E-09	INIT-2AC5035-2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
809	7.55E-09	INIT-2AC5040-2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
810	7.55E-09	INIT-3PE453A-2	L-CVCC0001-P	NOATWS	NOSBO
811	7.54E-09	H-MP019-1DR	H-TRAINA-M	H-ZZ18TO17-K	INIT-LL
812	7.54E-09	INIT-2AC3020A-6	L-HCAFWPA-FU	L-HCAFWPB-FU	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
813	7.53E-09	FTR	INIT-CCW	P-MPCC09-1DR	P-TRAINA-M
		Z0			
814	7.53E-09	INIT-2AC3020A-6	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141-M
		NOATWS	NOSBO		
815	7.51E-09	INIT-2TB148-7	L-HCHV4716PU	L-MV4716-P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
816	7.50E-09	H-MP019-S	H-MV9305-P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	

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Number	Probability	Event	Event	Event	Event
817	7.50E-09	H-MP019—S	H-MV9303—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
818	7.48E-09	2G2-FAILS	2G3-FAILS	INIT-LOP	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-HCOSPWR60U
		U-HCOSPWR6HU	U-OOGWLOOP-Z	MULTIPLYBP33	
819	7.47E-09	FGHCMFWREC-U	INIT-2AC8570-3	L-HCCSTMU—U	NOATWS
		NOSBO			
820	7.46E-09	INIT-2TB148-7	L-HCOVRSP—V	L-MPCC0001-S	L-TP140RR—S
		NOATWS	NOSBO		
821	7.46E-09	F-HCDEPRESSU	INIT-2AC3020A-A	L-MPCC01-1DR	L-TP140—1DR
		L-TP140NR1DR	NOATWS	NOSBO	
822	7.43E-09	INIT-2AR50111	L-MPCC01-1DR	L-TP140NR—S	NOATWS
		NOSBO			
823	7.40E-09	INIT-SL	NOATWS	P-C2A0610—N	P-HCSWCKK-SL-CCW
		P-MP112—M	P-P113KIRKKEY-K		
824	7.37E-09	FTR	INIT-PCS	L-HCNSBOMANU	NOATWS
		NOSBO	U-BCCC01-1DR		
825	7.37E-09	INIT-2TB148-7	L-MPCC0001-S	L-SV4700—J	NOATWS
		NOSBO			
826	7.36E-09	INIT-2SE30145A	L-MP141—S	L-MP504—M	NOATWS
		NOSBO			
827	7.36E-09	INIT-2SE30145A	L-MP141—M	L-MP504—S	NOATWS
		NOSBO			
828	7.36E-09	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U	K-OORAS-A-Z
		NOATWS	P-MV6495—P	RECIRC	
829	7.36E-09	INIT-SL	K-HCCIAS—U	K-OOCIAS-A-Z	NOATWS
		P-MV6495—P			
830	7.36E-09	INIT-2AC5044	L-HCOVRSP—V	L-MP141—M	L-TP140RR—S
		NOATWS	NOSBO		
831	7.35E-09	E-HCSWINGB-Z	E-MP026—M	E-ZZ25TO24-K	FTR
		INIT-SL	NOATWS	P-HCBCKFLSHU	P-HTE001-1DC
832	7.29E-09	INIT-2AC916-3	L-TP140NR—S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
833	7.28E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-2	L-MP141—S
		L-TP140NR1DR	NOATWS	NOSBO	
834	7.26E-09	INIT-2AC5044	L-MP141—M	L-SV4700—J	NOATWS
		NOSBO			
835	7.24E-09	INIT-2AC5035-2	L-CV121—N	L-TP140NR—S	NOATWS
		NOSBO			
836	7.24E-09	INIT-2AC5040-2	L-CV547—N	L-TP140NR—S	NOATWS
		NOSBO			
837	7.23E-09	INIT-2AC5038	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
838	7.18E-09	INIT-2PE453A-3	L-HCHV4716PU	L-MP504—1DR	L-MV4716—P
		NOATWS	NOSBO		
839	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C3B06141DO
		Z0			
840	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	NOSBO
		U-C4D202-1DO	Z0		
841	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C2A06201DO
		Z0			
842	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	NOSBO
		U-C3BZ03-1DO	Z0		
843	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C4D203-1DO

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
		Z0			
844	7.17E-09	E-TRAINA—M	FTR	INIT-CCW	U-C3B06011DO
		Z0			
845	7.17E-09	H-C2A0608—N	H-MV9305—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
846	7.17E-09	H-C2A0608—N	H-MV9303—P	H-ZZ18TO17-K	INIT-SL
		NCHCCSINJCTU	NOATWS	RECIRC	
847	7.17E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPA-FU	L-HCAFWPC-FU	NOATWS	NOSBO
		OP3-SUCCESS			
848	7.17E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPA-FU	L-HCAFWPC-FU	NOATWS	NOSBO
		RC2-SUCCESS			
849	7.16E-09	E-MP026—M	E-ZZ25TO24-K	INIT-2AC5040-2	NOATWS
		Y-OORV-DEM-Z	Y-RV0200—N		
850	7.16E-09	E-MP026—M	E-ZZ25TO24-K	INIT-2AC5040-2	NOATWS
		Y-OORV-DEM-Z	Y-RV0201—N		
851	7.13E-09	INIT-SLB	NOATWS	T-OOE-088—Z	T-SVCC0012-J
		TDS30-1COMPLEMNT			
852	7.13E-09	INIT-SLB	NOATWS	T-OOE-089—Z	T-SVCC0012-J
		TDS30-1COMPLEMNT			
853	7.12E-09	INIT-2DG30155-2	L-MPCC01-1DR	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO	URECB2A06—Z	
854	7.09E-09	2G2-FAILS	2G3-FAILS	INIT-2PE633B-2	L-TP140NR—S
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
855	7.09E-09	2G2-FAILS	2G3-FAILS	INIT-3PE633B-2	L-TP140NR—S
		NO-RECOVER	NOATWS	U-DGCC01-1DR	U-OOPCLOOP-Z
856	7.08E-09	INIT-2TB148-7	L-C2CC0001-N	L-HCHV4716PU	L-MV4716—P
		NOATWS	NOSBO		
857	7.08E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1—Z	L-TP140—M	NOATWS	NOLOP
		NOSBO			
858	7.08E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2—Z	L-TP140—M	NOATWS	NOLOP
		NOSBO			
859	7.08E-09	ATWS	INIT-TT	K-HCSCRAM—U	K-OOCCRPDSS
		NOLOP	Z126-1COMPLEMENT	Z250-2	
860	7.07E-09	INIT-SEIS2	L-CVCC0002-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
861	7.07E-09	INIT-2AC916-3	L-CVCC0002-N	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
862	7.06E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504—1DR
		L-TP140NR—S	NOATWS	NOSBO	
863	7.05E-09	2G3-FAILS	INIT-LOP	L-MP141—1DR	L-TP140—1DR
		L-TP140NR1DR	NO-RECOVER	NOATWS	NOSBO
		U-C2A0618—P	U-HCOSPWR60U	U-OOPCLOOP-Z	
864	7.05E-09	2G2-FAILS	INIT-LOP	L-MP504—1DR	L-TP140—1DR
		L-TP140NR1DR	NO-RECOVER	NOATWS	NOSBO
		U-C2A0418—P	U-HCOSPWR60U	U-OOPCLOOP-Z	
865	7.02E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2DG30158-2	L-HCTP140—U
		L-MP504—1DR	NOATWS	NOSBO	URECB2A04—Z
866	7.02E-09	INIT-SLB	K-HCMSIS—U	K-OOMSISCC-Z	NOATWS
		T-OOE-088—Z	TDS30-1		
867	7.02E-09	INIT-SLB	K-HCMSIS—U	K-OOMSISCC-Z	NOATWS
		T-OOE-089—Z	TDS30-1		

Safety Monitor 3.0 - Cutset report (Hypothetical mode)

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Number	Probability	Event	Event	Event	Event
868	7.01E-09	2G2-FAILS	2G3-FAILS	INIT-LOP	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0001-P	U-HCOSPWR60U
		U-HCOSPWR6HU	U-OOPCLOOP-Z	U-HCRECC2CCP	
869	7.00E-09	E-HCP026-U	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9303-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
870	7.00E-09	E-HCP026-U	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9305-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
871	6.99E-09	INIT-2AC8571-3	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
872	6.99E-09	INIT-2AC3020A-A	L-HCHV4716PU	L-MV4716-P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
873	6.98E-09	INIT-2PE453A-3	L-CV547-N	L-HCTP140-U	NOATWS
		NOSBO			
874	6.96E-09	FTR	INIT-TT	L-MP141-M	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	U-BCB2-1DR
875	6.96E-09	INIT-2AC5035-2	L-FLP141-1DC	L-TP140NR-S	NOATWS
		NOSBO			
876	6.96E-09	INIT-2AC5040-2	L-FLP504-1DC	L-TP140NR-S	NOATWS
		NOSBO			
877	6.93E-09	INIT-PCS	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		U-C2A0807-N	URHCFSTXFRU		
878	6.91E-09	FTR	INIT-CCW	P-MP112-M	P-MP307-M
		U-C3B06011DO	Z0		
879	6.91E-09	FTR	INIT-CCW	NOSBO	P-MP112-M
		P-MP307-M	U-C4D202-1DO	Z0	
880	6.91E-09	FTR	INIT-CCW	P-MP112-M	P-MP307-M
		U-C2A06201DO	Z0		
881	6.91E-09	FTR	INIT-CCW	P-MP112-M	P-MP307-M
		U-C3B06141DO	Z0		
882	6.91E-09	FTR	INIT-CCW	P-MP112-M	P-MP307-M
		U-C4D203-1DO	Z0		
883	6.91E-09	E-LC6276-1DI	E-ZZ25TO24-K	FTR	INIT-CCW
		P-MP113-M	P-MP114-M	Z0	
884	6.91E-09	FTR	INIT-CCW	NOSBO	P-MP112-M
		P-MP307-M	U-C3BZ03-1DO	Z0	
885	6.90E-09	INIT-2TB148-5	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
886	6.90E-09	INIT-SL	L-MPCC0001-S	L-TP140NR-S	NOATWS
887	6.90E-09	2G2-FAILS	INIT-2AC3020A-1	INJECT	L-HCAFWPB-FU
		L-HCTP140-U	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-M	U-OOPCLOOP-Z		
888	6.89E-09	2G2-FAILS	INIT-2AC5035-2	INJECT	K-HCLOVSIG-V
		K-OOLOV1-Z	L-MV4716-M	NOATWS	NOLOP
		NOSBO			
889	6.89E-09	2G3-FAILS	INIT-2AC5040-2	INJECT	K-HCLOVSIG-V
		K-OOLOV2-Z	L-MV4716-M	NOATWS	NOLOP
		NOSBO			
890	6.88E-09	FGHCCNDREC-U	INIT-2AC3020A-A	L-MPCC01-1DR	L-TP140-1DR
		L-TP140NR1DR	NOATWS	NOSBO	
891	6.88E-09	2G3-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	OP3-SUCCESS
		U-DG2G3-1DR			

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CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
892	6.88E-09	2G3-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPA-FU
		L-HCAFWPC-FU	NOATWS	NOSBO	RC2-SUCCESS
		U-DG2G3-1DR			
893	6.87E-09	INIT-SEIS2	L-C2CC0001-N	L-TP140NR-S	NOATWS
		NOSBO			
894	6.87E-09	INIT-2AC916-3	L-C2CC0001-N	L-TP140NR-S	NOATWS
		NOSBO			
895	6.84E-09	INIT-SEIS2	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
896	6.84E-09	INIT-2AC916-3	L-HCHV4716PU	L-MPCC0001-S	L-MV4716-P
		NOATWS	NOSBO		
897	6.83E-09	INIT-2DG30155-2	L-CV121-N	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		
898	6.83E-09	INIT-2AC5042	L-HCTP140-U	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
899	6.81E-09	INIT-2AC5035-2	L-HCHV4716PU	L-MP141-S	L-MV4716-P
		NOATWS	NOSBO		
900	6.81E-09	INIT-2AC5040-2	L-HCHV4716PU	L-MP504-S	L-MV4716-P
		NOATWS	NOSBO		
901	6.79E-09	E-HCSWINGB-Z	E-MP026-1DR	E-TRAINA-M	E-ZZ25TO24-K
		FTR	INIT-SL	NOATWS	
902	6.79E-09	H-MV9305-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB-M	RECIRC	Y-OORV-DEM-Z	Y-RV0200-N
903	6.79E-09	H-MV9304-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA-M	RECIRC	Y-OORV-DEM-Z	Y-RV0201-N
904	6.79E-09	H-MV9305-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB-M	RECIRC	Y-OORV-DEM-Z	Y-RV0201-N
905	6.79E-09	H-MV9303-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB-M	RECIRC	Y-OORV-DEM-Z	Y-RV0201-N
906	6.79E-09	H-MV9303-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINB-M	RECIRC	Y-OORV-DEM-Z	Y-RV0200-N
907	6.79E-09	H-MV9304-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA-M	RECIRC	Y-OORV-DEM-Z	Y-RV0200-N
908	6.79E-09	H-MV9302-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA-M	RECIRC	Y-OORV-DEM-Z	Y-RV0200-N
909	6.79E-09	H-MV9302-P	H-ZZ18TO17-K	INIT-PCS	NOATWS
		P-TRAINA-M	RECIRC	Y-OORV-DEM-Z	Y-RV0201-N
910	6.79E-09	INIT-LOP	L-MP141-1DR	L-MP504-1DR	L-TP140NR-S
		NOATWS	NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z
911	6.79E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-C2CC0007-P	
912	6.77E-09	FTR	INIT-3AC5060	L-HCTP140-U	M-CHE-3351DR
		M-HCVENT-EE	NOATWS	NOSBO	
913	6.77E-09	FTR	INIT-3AC5034	L-HCTP140-U	M-CHE-3361DR
		M-HCVENT-EE	NOATWS	NOSBO	
914	6.75E-09	E-MP024-M	E-ZZ25TO24-K	INIT-2SE5135B	NOATWS
		Y-OORV-DEM-Z	Y-RV0200-N		
915	6.75E-09	E-MP024-M	E-ZZ25TO24-K	INIT-2SE5135B	NOATWS
		Y-OORV-DEM-Z	Y-RV0201-N		
916	6.75E-09	E-MP026-M	E-ZZ25TO24-K	INIT-2DG30158-2	NOATWS
		URECB2A04-Z	Y-OORV-DEM-Z	Y-RV0200-N	
917	6.75E-09	E-MP026-M	E-ZZ25TO24-K	INIT-2DG30158-2	NOATWS
		URECB2A04-Z	Y-OORV-DEM-Z	Y-RV0201-N	
918	6.73E-09	INIT-3PE633B-2	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		

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Number	Probability	Event	Event	Event	Event
919	6.73E-09	INIT-2PE633B-2	L-MPCC0001-S	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
920	6.72E-09	FTPE-TF-PCS	INIT-2AC3020A-5		
921	6.72E-09	INIT-2TB148-6	L-TP140-M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
922	6.71E-09	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-DG2G3-1DR	U3C2A0603-N
923	6.71E-09	2G3-FAILS	INIT-2AC5040-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0619-N	U-DG2G3-1DR
924	6.71E-09	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-C2A0417-N	U-DG2G2-1DR
925	6.71E-09	2G2-FAILS	INIT-2AC5035-2	L-HCNSBOMANU	NOATWS
		NOLOP	NOSBO	U-DG2G2-1DR	U3C2A0416-N
926	6.70E-09	INIT-2PE453A-3	L-FLP504-1DC	L-HCTP140-U	NOATWS
		NOSBO			
927	6.69E-09	INIT-3AC5034	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
928	6.69E-09	INIT-3AC5060	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
929	6.67E-09	H-MP019-1DR	H-ZZ18TO17-K	INIT-PCS	N-HCCSINJCTU
		NOATWS	P-TRAINA-M	Y-OORV-DEM-Z	Y-RV0201-N
930	6.67E-09	H-MP019-1DR	H-ZZ18TO17-K	INIT-PCS	N-HCCSINJCTU
		NOATWS	P-TRAINA-M	Y-OORV-DEM-Z	Y-RV0200-N
931	6.65E-09	H-MV9305-M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495-P	RECIRC		
932	6.65E-09	H-MV9303-M	H-ZZ18TO17-K	INIT-SL	NOATWS
		P-MV6495-P	RECIRC		
933	6.64E-09	INIT-2TB30153	L-TP140NR-S	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
934	6.63E-09	INIT-SL	L-C2CC0001-N	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
935	6.63E-09	ATWS	INIT-2DG30158-1	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
936	6.63E-09	ATWS	INIT-2DG30155-1	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
937	6.61E-09	INIT-2TB148-7	L-MP141-1DR	L-MP504-1DR	L-TP140NR-S
		NOATWS	NOSBO		
938	6.59E-09	H-TRAINA-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-B-Z	NCHCCSINJCTU	NOATWS	RECIRC
939	6.59E-09	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL	K-HCCIAS-U
		K-OOCIAS-A-Z	NCHCCSINJCTU	NOATWS	
940	6.59E-09	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL	K-HCRAS-U
		K-OORAS-A-Z	NCHCCSINJCTU	NOATWS	RECIRC
941	6.57E-09	INIT-2AR37102A	L-HCOVRSP-V	L-MPCC01-1DR	L-TP140RR-S
		NOATWS	NOSBO		
942	6.56E-09	A-C2CC0001-N	INIT-LL		
943	6.56E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-HCNSBOMANU
		NO-RECOVER	NOATWS	U-DG2G2-1DR	U-DG2G3-1DR
		U-HC3A4A660V			
944	6.56E-09	INIT-2DG30155-2	L-FLP141-1DC	L-TP140NR-S	NOATWS
		NOSBO	URECB2A06-Z		
945	6.55E-09	H-TRAINB-M	H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU
		NOATWS	P-HCSWCKK-SL-CCW	P-MP112-M	

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Number	Probability	Event	Event	Event	Event
946	6.55E-09	E-HCSWINGB-Z	E-MP026-1DR	E-ZZ25TO24-K	FTR
		INIT-SL	NOATWS	P-MP112-M	P-MP307-M
947	6.54E-09	INIT-2DG30158-2	L-MP504-1DR	L-TP140NR-S	NOATWS
		NOSBO	U-HCSPAREBCV	URECB2A04-Z	
948	6.54E-09	INIT-2TB148-6	L-MV4716-M	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
		MULTIPLYBYP4			
949	6.53E-09	E-MP024-M	E-MP025-M	E-ZZ25TO24-K	H-MP019-1DR
		H-ZZ18TO17-K	INIT-SL	NCHCCSINJCTU	NOATWS
950	6.53E-09	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP113-1DR	P-P113KIRKKEY-K	P-TRAINA-M	Z0
951	6.53E-09	FTR	INIT-CCW	P-CFSWC-1YR	P-HCSWCKK-SL-CCW
		P-MP112-1DR	P-TRAINB-M	Z0	
952	6.53E-09	INIT-2PE453A-2	L-MPCC01-1DR	L-TP140-1DR	L-TP140NR1DR
		NOATWS	NOSBO		
953	6.52E-09	INIT-2AR976	L-HCOVRSP-V	L-MPCC01-1DR	L-TP140RR-S
		NOATWS	NOSBO		
954	6.51E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504-1DR
		L-TP140NR-S	NOATWS	NOSBO	
955	6.50E-09	FGHCMFWREC-U	INIT-2TB30153	L-MPCC0001-S	L-TP140NR-S
		NOATWS	NOSBO		
956	6.49E-09	INIT-2AC5039	L-HCNSBOMANU	M-HCBCBFAILU	M-HCNOSIAS-U
		NOATWS	NOLOCA	NOLOP	NOSBO
957	6.49E-09	INIT-2AR37102A	L-MPCC01-1DR	L-SV4700-J	NOATWS
		NOSBO			
958	6.48E-09	FGHCCNDREC-U	FGHCMFWREC-U	INIT-2DG30158-2	L-HCTP140-U
		L-MP504-1DR	NOATWS	NOSBO	URECB2A04-Z
959	6.48E-09	INIT-2AC8571-1	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
960	6.48E-09	INIT-2AC5035-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
961	6.48E-09	INIT-2AC5040-2	L-TP140-1DR	L-TP140NR1DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO			
962	6.47E-09	E-NCL-B-K	INIT-SEISSA	NOATWS	P-TRAINA-M
963	6.47E-09	E-NCL-A-K	INIT-SEISSA	NOATWS	P-TRAINB-M
964	6.45E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-3TB148-2	L-MPCC0001-S
		L-TP140-1DR	L-TP140NR1DR	NOATWS	NOSBO
965	6.45E-09	2G2-FAILS	INIT-2AC3020A-2	INJECT	L-HCAFWPB-FU
		L-HCAFWPC-FU	NO-RECOVER	NOATWS	NOSBO
		U-DG2G2-M	U-OOPCLOOP-Z		
966	6.45E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-TP140-M	NOATWS	NOSBO	L-HCRECMPCCR
967	6.44E-09	E-MP024-M	E-MP025-M	E-ZZ25TO24-K	H-MV9302-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
968	6.44E-09	E-MP024-M	E-MP025-M	E-ZZ25TO24-K	H-MV9304-P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
969	6.44E-09	INIT-2AC5040-2	L-C2A0603-N	L-TP140-M	NOATWS
		NOSBO			
970	6.44E-09	INIT-2AC5035-2	L-C2A0404-N	L-TP140-M	NOATWS
		NOSBO			
971	6.44E-09	INIT-2AC3020A-9	L-HCAFWPB-FU	L-HCAFWPC-FU	L-MP141-1DR
		NOATWS	NOSBO		

Safety Monitor 3.0 - Outset report (Hypothetical mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
972	6.43E-09	INIT-2AR976	L-MPCC01-1DR	L-SV4700—J	NOATWS
		NOSBO			
973	6.42E-09	INIT-2DG30155-2	L-HCHV4716PU	L-MP141—S	L-MV4716—P
		NOATWS	NOSBO	URECB2A06—Z	
974	6.40E-09	FTR	INIT-CCW	M-FNA-1651DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOLOCA	NOLOP	P-FNSWC—Z
		Z0			
975	6.40E-09	FTR	INIT-CCW	M-FNE-4301DR	M-HCBCBFAILU
		M-HCNOSIAS-U	NOLOCA	NOLOP	P-FNSWC—Z
		Z0			
976	6.38E-09	INIT-2YD30200-3	L-HCHV4716PU	L-MV4716—P	M-HCBCBFAILU
		M-HCNOSIAS-U	NOATWS	NOLOCA	NOLOP
		NOSBO	MULTIPLYBYP4		
977	6.38E-09	2G3-FAILS	INIT-2AC3020A-1	INJECT	K-HCLOVSGF2V
		L-HCAFWPA-FU	L-HCAFWPC-FU	NO-RECOVER	NOATWS
		NOSBO	U-OOPCLOOP-Z		
978	6.38E-09	INIT-2PE453A-3	L-HCHV4716PU	L-MP504—M	L-MV4716—P
		NOATWS	NOSBO		
979	6.38E-09	ATWS	INIT-2TB148-7	K-OOMECHSCRM	Z126-1COMPLEMENT
		Z250-2			
980	6.36E-09	E-CV103—N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9305—P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
981	6.36E-09	E-CV103—N	E-HCSWINGB-Z	E-ZZ25TO24-K	H-MV9303—P
		H-ZZ18TO17-K	INIT-SL	NOATWS	RECIRC
982	6.36E-09	ATWS	INIT-2AR50111	K-OOMECHSCRM	Z126-1
983	6.36E-09	INIT-LOP	L-MPCC0001-S	L-TP140—M	NOATWS
		NOSBO	U-HCOSPWR60U	U-OOPCLOOP-Z	L-HCRECMPCCS
984	6.35E-09	FTR	INIT-CRHHVAC	L-HCTP140—U	M-FNE-4301DR
		M-HCBCBFAILU	M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	M-OR9557-1DC
		NOATWS	NOLOCA	NOLOP	NOSBO
985	6.35E-09	FTR	INIT-CRHHVAC	L-HCTP140—U	M-FNA-1651DR
		M-HCBCBFAILU	M-HCCRHHVACTRIP-U	M-HCNOSIAS-U	M-OR9557-1DC
		NOATWS	NOLOCA	NOLOP	NOSBO
986	6.35E-09	FTR	INIT-PCS	L-TP140NR—S	M-FNE-4301DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
987	6.35E-09	FTR	INIT-PCS	L-TP140NR—S	M-FNA-1651DR
		M-HCBCBFAILU	M-HCNOSIAS-U	NOATWS	NOLOCA
		NOLOP	NOSBO		
988	6.34E-09	INIT-2AR63116-2	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
989	6.33E-09	INIT-2AC916-3	L-MPCC01-1DR	L-TP140—M	NOATWS
		NOSBO			
990	6.33E-09	INIT-SEIS2	L-MPCC01-1DR	L-TP140—M	NOATWS
		NOSBO			
991	6.30E-09	H-HADEBRIS-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0200—N		
992	6.30E-09	H-HADEBRIS-X	INIT-PCS	NOATWS	RECIRC
		Y-OORV-DEM-Z	Y-RV0201—N		
993	6.29E-09	2G2-FAILS	2G3-FAILS	INIT-SEIS2	L-TP140NR—S
		NO-RECOVER	NOATWS	U-DGCC0001-S	
994	6.29E-09	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U	K-OORAS-B—Z
		NOATWS	P-HTE001—M	RECIRC	
995	6.29E-09	INIT-SL	K-HCCIAS—U	K-OOCIAS-A-Z	NOATWS
		P-HTE002—M			

Safety Monitor 3.0 - Cutset report (Pathological mode)

Plant: SONG, Unit: 2

Wed Jun 26 08:59:09 2002

Created by PRA for 06/26/2002 08:57 (4670 CDF cutsets)

CD: 4.84E-05 LERF: 1.72E-06 BOIL: 0.00E+00 Average maintenance, Flags retained

Number	Probability	Event	Event	Event	Event
996	6.29E-09	H-ZZ18TO17-K	INIT-SL	K-HCRAS—U	K-OORAS-A-Z
		NOATWS	P-HTE002—M	RECIRC	
997	6.29E-09	INIT-2TB148-5	L-MPCC0001-S	L-TP140—1DR	L-TP140NR1DR
		NOATWS	NOSBO		
998	6.27E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-PCS	L-MPCC01-1DR
		L-MV4716—M	NOATWS	NOSBO	L-HCRECMPCCR
999	6.27E-09	F-HCDEPRESSU	FGHCMFWREC-U	INIT-2TK30161A-3	L-MP504—M
		L-TP140NR—S	NOATWS	NOSBO	
1000	6.27E-09	INIT-2AC5040-2	L-C2A0603—N	L-MV4716—M	NOATWS
		NOSBO			

Mode/POS: 1PWR : Full and Low Power

CDF : 4.84E-05 (Below Moderate = 1.00E-04): ACT - 571h:47m
LERF : 1.72E-06 (Below Moderate = 1.00E-05): ACT - 2217h:5m
BOIL : 0.00E+00 (Below Moderate = 1.00E-03): ACT - 8760h:0m

No components out of service

No environmental/test factors in effect

Mode/POS: 1PWR : Full and Low Power

CDF : 4.84E-05 (Below Moderate = 1.00E-04): ACT - 571h:47m
LERF : 1.72E-06 (Below Moderate = 1.00E-05): ACT - 2217h:5m
BOIL : 0.00E+00 (Below Moderate = 1.00E-03): ACT - 8760h:0m

System alignments:

1	CCW HX E001	Not in H/T	Train: A
2	CCW HX E002	Not in H/T	Train: B
3	CCW Pump P024	Standby	Train: A
4	CCW Pump P025	Running	Train: Train A
5	CCW Pump P026	Standby	Train: B
6	Cont. Mini-Purge Valves	Closed	Train: N/A
7	HPSI Pump P018	Train A	Train: N/A
8	SWC Pump P112	Running	Train: A
9	SWC Pump P113	Standby	Train: B
10	SWC Pump P114	Standby	Train: B
11	SWC Pump P307	Standby	Train: A
12	Unit 2 Intake	Status	Train: Avail
13	Unit 3 Intake	Status	Train: Avail
14	CS Pump P012	Standby	Train: CS Align
15	CS Pump P013	Standby	Train: CS Align
16	RCS Alignment	Header A	Train: N/A
17	SDC Pump P015	Standby	Train: A
18	SDC Pump P016	Standby	Train: B
19	SFP Pump P009	Running	Train: 1E Power
20	SFP Pump P010	Standby	Train: Temp PWR
21	SFPC Alignment	Not Aligned	Train: N/A